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Date: January 3, 2022
Symbol: EPC-DO-21-404
LA-UR: 21-32358

Mr. Rick Shean, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 17), Los Alamos National Laboratory, EPA ID# NM0890010515

Dear Mr. Shean:

Please find enclosed the *Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 17)* in accordance with the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit), Section 3.14.3.

The Permit requires the soil vapor monitoring system at the LANL TA-63 Transuranic Waste Facility be sampled and evaluated for designated volatile organic compounds (VOCs) on a quarterly basis to ensure protection of environmental health and safety including that of onsite workers. The enclosed report (Enclosure 1) provides the results of sampling conducted on November 3, 2021 for the seventeenth 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.

A report certification is included with this submittal in compliance with Permit Section 1.9.16. 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 feel free to contact Karen E. Armijo, NA-LA, at (505) 221-3664 or (505) 665-7314, karen.armijo@nnsa.doe.gov or Patrick L. Padilla, Triad, at (505) 412-0462, plpadilla@lanl.gov.

Sincerely,

JENNIFER PAYNE
(Affiliate)

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Jennifer E. Payne
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Los Alamos National Laboratory

Sincerely,

Marcus A. Pinzel

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for

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

JEP/KEA/PLP

Enclosure: 1) Technical Area 63 (TA-63) Transuranic Waste Facility Soil Vapor Monitoring System Report, November 2021 (Quarter 17), Los Alamos National Laboratory, EPA ID #NM0890010515

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ENCLOSURE 1

Technical Area 63 (TA-63) Transuranic Waste Facility
Soil Vapor Monitoring System Report
November 2021 (Quarter 17)
Los Alamos National Laboratory, EPA ID# NM0890010515

EPC-DO-21-404

LA-UR-21-32358

Unclassified

Date: January 3, 2022

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CERTIFICATION

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CERTIFICATION

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

JENNIFER PAYNE
(Affiliate)

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

22 December 2021

Date Signed

Marcus A. Pinzel

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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

22 December 2021

Date Signed

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**Technical Area 63 (TA-63) Transuranic Waste Facility
Soil Vapor Monitoring System Report, November 2021 (Quarter 17)
Los Alamos National Laboratory, EPA ID# NM0890010515**

I. Introduction

This report provides the November 2021 (Quarter 17) 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 potentially migrating from TA-50 Material Disposal Area (MDA) C, Solid Waste Management Unit 50-009. MDA C is managed under the Compliance Order on Consent (Consent Order). The TWF is located south-east of MDA C. Quarterly sampling is required by the LANL Hazardous Waste Facility Permit (Permit) 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 17 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

The New Mexico Environment Department-Hazardous Waste Bureau (NMED-HWB) approved a Permit modification for the construction of the TWF on December 23, 2013. Soil vapor monitoring wells were installed in August 2015 and baseline soil vapor monitoring samples were collected, as required by Permit Section 3.14.3, in September 2015 with a corresponding report 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 sixteen quarters are listed in the reference section (LANL, 2017 through LANL, 2021d).

The TWF soil vapor monitoring network consists of five soil vapor monitoring wells located in or near the permitted storage area at 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 comprising 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 is sampled during quarterly sampling events for a total of seven (7) vapor samples.

The Permit presents action levels within Permit Tables 3.14.3.1, 3.14.3.2, and 3.14.3.3 (Permit Tables) for VOC constituents of concern from the contaminant plume from MDA C. 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 Section 3.14.3, *Subsurface Vapor Monitoring*. All VOC laboratory analytical sampling results are compared to the SGSLs, where listed. The primary constituent of concern at the site is trichloroethylene (TCE).

III. Soil Vapor

Field work for the Quarter 17 sampling event took place on November 3, 2021. 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 nine (9) samples were collected, including one field duplicate from VMW-5, 60 ft port, and one field blank sample. The samples were analyzed for the constituents identified in the Permit Tables. There were no variances in the sampling procedures from the Permit requirements.

IV. Analytical Results

A summary of the laboratory analytical results for the relevant VOCs detected in Quarter 17 is presented in Table 1, *Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility – Quarter 17*. The data continues to demonstrate that detected concentrations of TCE and other VOCs do not exceed the relevant SGSLs in the Permit Tables. Laboratory analyses indicate some constituents are detected above laboratory report detection limits. Table 1 provides the detected VOCs, both non-qualified and estimated or J-flagged detects. Each well port depth and constituent of concern has an associated SGSL that is presented in Table 1 for comparison to the analytical results. Also included in Table 1 is a calculated percentage of the analytical results compared to the relevant SGSL to demonstrate the relative constituent concentrations compared to the action levels.

Laboratory results are processed through LANL's Sample Management Office for quality assurance/quality control; this data is presented as an Excel file included on the disc submitted with this report. Results for this quarter are also presented in Table 2, *VOC Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility – Quarter 17*.

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

Overall, TCE consistently demonstrates 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 2200 micrograms per cubic meter (ug/m^3), 1.4% of the SGSL, and 6400 ug/m^3 at the 60 ft port depth, 6.9% of the SGSL. The TCE concentration measured in VMW-5, at the 25 ft port depth, is 300 ug/m^3 , 0.2% of the SGSL, and 1200 ug/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, ranging from 0.2% to 0.5%.

The analytical results for the sample collected from VMW-1 (TWF63-22-235818, see Table 1) indicates the detection of a new constituent, xylene[1,3-]+Xylene[1,4-], below the laboratory report detection limit. The new VOC detected includes xylene isomers that are included in the

constituents of concern identified in Permit Table 3.14.3.1 as m-xylene and p-xylene. The relative concentration of this constituent is less than 0.1% of the permitted SGSLs for the constituent concentrations. Review of the analytical laboratory data does not indicate a data quality error. Notification of a newly detected constituent was made to NMED-HWB on December 16, 2021 (LANL 2021e) as required by Permit Section 3.14.3.

The laboratory analytical result for vapor monitoring well VMW-1 also demonstrates the presence of trichloroethane[1,1,1-] for the first time since Quarter 12.

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 while the results for VMW-5 are estimated, J-flagged concentrations. The concentrations of chloroform in vapor monitoring well VMW-4 are 78 ug/m³, 0.3% of the SGSL, and 170 ug/m³, 0.4% of the SGSL, in the 25 ft and 60 ft sampling ports, respectively. The concentrations of chloroform in vapor monitoring well VMW-5 are 36 ug/m³, 0.2% of the SGSL, and 19 ug/m³, <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. The duplicate sample for VMW-5, 60 ft port, demonstrated a low concentration of tetrachloroethylene at 14 ug/m³ in the Quarter 16 sampling event. This quarter, the regular sample for VMW-5, 60 ft port, demonstrates a low concentration of tetrachloroethylene at 12 ug/m³ (J-flagged); the field duplicate does not indicate tetrachloroethylene as present. Tetrachloroethylene has not been detected in VMW-5, 60 ft port, since Quarter 7.

Additional Analytic Results Discussion

A notification of additional constituents, as required by Permit 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 ug/m³ (J-flagged). 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 17 sampling results do not indicate the presence of tetrahydrofuran, ethanol, propanol[2-] (isopropyl alcohol), or 2-butanone.

Ethanol and propanol[2-] (isopropyl alcohol) have been detected at estimated, J-flagged concentrations in vapor monitoring well 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 ug/m³. The Quarter 17 sampling results did not detect the presence of ethanol or propanol[2-]; however, they will continue to be monitored for and reported on.

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 on-site 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. Prior to the Quarter 15 sampling event, a new ultra-high pure nitrogen tank was purchased and used for field blank sample collection which resulted in no detectable amounts of ethylbenzene or xylene isomers. The Quarter 17 sampling event field blank results continues to demonstrate no detectable amounts xylene isomers or ethylbenzene.

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%. There are two near-range exceptions 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 demonstrates that the concentrations for data exceptions fall with a range with a confidence probability of 99%. This means that no significant deviations are observed for the average TCE concentrations for each well and sampling port to that approximately level of confidence.

Figures 2 and 3 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 may 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 easily identified 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.

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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

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.

FIGURES AND TABLES

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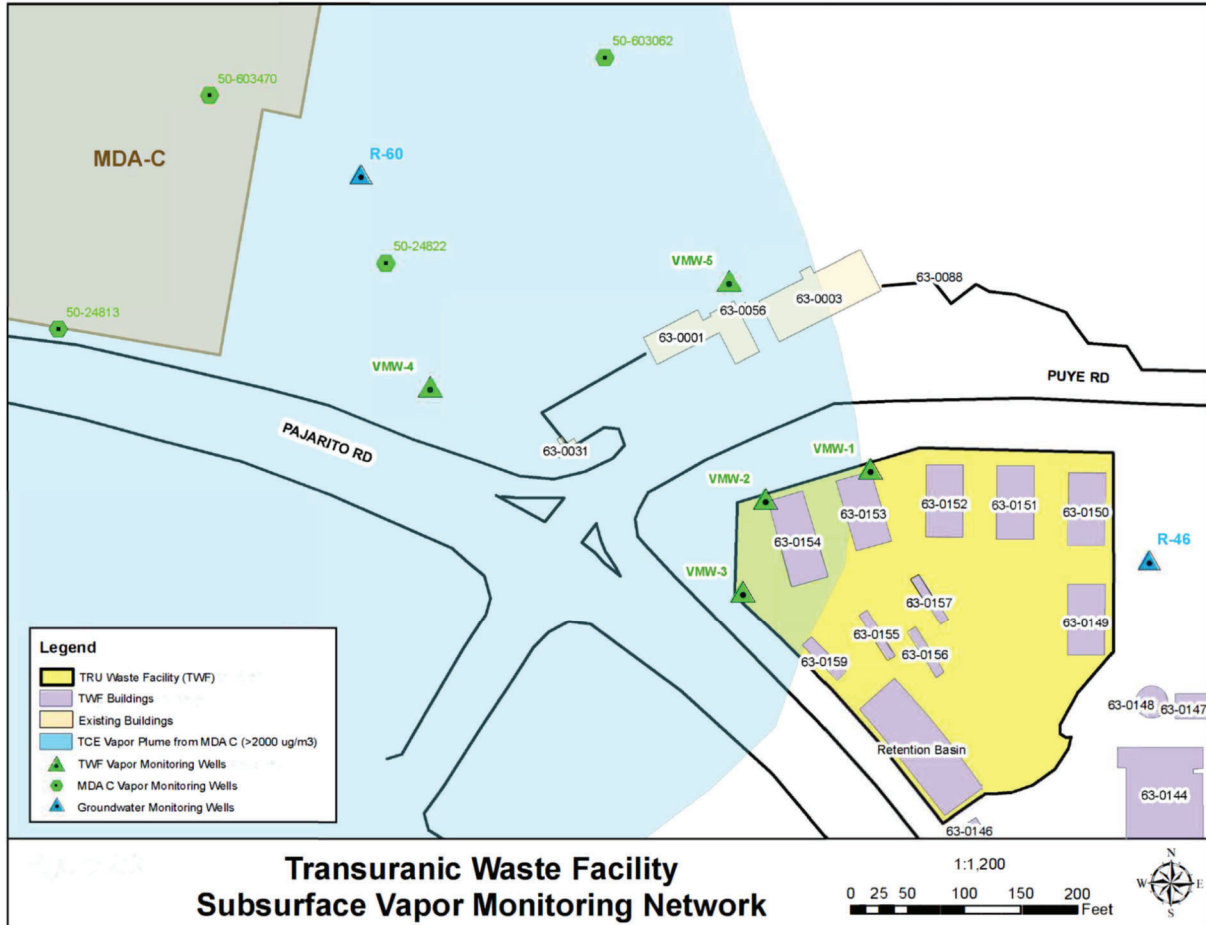


Figure 1. Soil Vapor Monitoring Well Locations at TA-63 TWF

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Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility - Quarter 17

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result (ug/m3)	EPA Data Qualifier	Report Detection Limit (ug/m3)	SGSL (ug/m3)	% SGSL
VMW-1 (63-2009)	TWF63-22-235818	5	REG	Trichloroethene	Trichloroethylene	40	J	45	1.94E+04	0.2
	TWF63-22-235818	5	REG	Xylene[1,3-]+Xylene[1,4-]	m-Xylene	10	J	36	1.01E+06	<0.1
	TWF63-22-235818	5	REG	Xylene[1,3-]+Xylene[1,4-]	p-Xylene	10	J	36	9.77E+05	<0.1
	TWF63-22-235818	5	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	3.8	J	45	4.86E+07	<0.1
VMW-2 (63-2010)	TWF63-22-235819	5	REG	Trichloroethene	Trichloroethylene	100	NQ	44	1.94E+04	0.5
VMW-3 (63-2011)	TWF63-22-235820	5	REG	Trichloroethene	Trichloroethylene	75	NQ	40	1.94E+04	0.4
VMW-4 (63-2012)	TWF63-22-235822	25	REG	Trichloroethene	Trichloroethylene	2200	NQ	70	1.57E+05	1.4
	TWF63-22-235822	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	54	J	64	2.61E+06	<0.1
	TWF63-22-235822	25	REG	Tetrachloroethene	Tetrachloroethylene	33	J	88	2.63E+06	<0.1
	TWF63-22-235822	25	REG	Carbon Tetrachloride	Carbon Tetrachloride	36	J	82	1.06E+05	<0.1
	TWF63-22-235822	25	REG	Chloroform	Chloroform	78	NQ	63	2.30E+04	0.3
VMW-4 (63-2012)	TWF63-22-235822	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	130	NQ	39	5.38E+06	<0.1
	TWF63-22-235822	60	REG	Trichloro-1,2,2-trifluoroethane[1,1,2-]	1,1,2-Trichloro-1,2,2-trifluoroethane	24	J	60	1.38E+09	<0.1
	TWF63-22-235822	60	REG	Trichloroethene	Trichloroethylene	6400	NQ	42	9.27E+04	6.9
	TWF63-22-235822	60	REG	Chloroform	Chloroform	170	NQ	38	4.44E+04	0.4
	TWF63-22-235822	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	9.8	J	43	2.34E+08	<0.1
	TWF63-22-235822	60	REG	Tetrachloroethene	Tetrachloroethylene	64	NQ	53	2.05E+06	<0.1
	TWF63-22-235822	60	REG	Dichloroethene[cis-1,2-]	cis-1,2-Dichloroethylene	14	J	31	2.91E+06	<0.1
	TWF63-22-235822	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	94	NQ	49	2.13E+05	<0.1
VMW-5 (63-2013)	TWF63-22-235823	25	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	39	NQ	38	2.61E+06	<0.1
	TWF63-22-235823	25	REG	Trichloroethene	Trichloroethylene	300	NQ	41	1.57E+05	0.2
	TWF63-22-235823	25	REG	Chloroform	Chloroform	36	J	37	2.30E+04	0.2
	TWF63-22-235823	25	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	16	J	41	1.16E+08	<0.1
VMW-5 (63-2013)	TWF63-22-235824	60	REG	Carbon Tetrachloride	Carbon Tetrachloride	14	J	50	2.13E+05	<0.1
	TWF63-22-235824	60	REG	Dichlorodifluoromethane	Dichlorodifluoromethane	59	NQ	40	5.38E+06	<0.1
	TWF63-22-235824	60	REG	Trichloroethene	Trichloroethylene	1200	NQ	43	9.27E+04	1.3
	TWF63-22-235824	60	REG	Chloroform	Chloroform	19	J	39	4.44E+04	<0.1
	TWF63-22-235824	60	REG	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	29	J	44	2.34E+08	<0.1
	TWF63-22-235824	60	REG	Tetrachloroethene	Tetrachloroethylene	12	J	54	2.05E+06	<0.1

Table 1: Detected Volatile Organic Compounds at TA-63 Transuranic Waste Facility - Quarter 17

Well ID	Field Sample ID	Port Depth	Sample Purpose	Analyte Name	Analyte Listing in Permit	Report Result (ug/m3)	EPA Data Qualifier	Report Detection Limit (ug/m3)	SGSL (ug/m3)	% SGSL
Field Duplicate VMW-5 (63-2013)	TWF63-22-235825	60	FD	Trichloroethene	Trichloroethylene	1200	NQ	41	9.27E+04	1.3
	TWF63-22-235825	60	FD	Dichlorodifluoromethane	Dichlorodifluoromethane	54	NQ	38	5.38E+06	<0.1
	TWF63-22-235825	60	FD	Chloroform	Chloroform	22	J	37	4.44E+04	<0.1
	TWF63-22-235825	60	FD	Trichloroethane[1,1,1-]	1,1,1-Trichloroethane	31	J	41	2.34E+08	<0.1
	TWF63-22-235825	60	FD	Carbon Tetrachloride	Carbon Tetrachloride	15	J	48	2.13E+05	<0.1

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
 EPA Data Qualifier "J-" indicates the laboratory control sample percent recovery is less than the lower acceptable limit but greater than or equal to the rejection limit
 REG = regular sample
 FD = field duplicate
 SGSL = Soil Gas Screening Level from Permit Tables 3.14.3.1 through 3.14.3.3
 N/A = Not Applicable (Ethanol is not listed in the Permit Tables)

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2009	6.5	TWF63-22-235818	11/03/2021	12/03/2021	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	10	J	6.5	36	Y
63-2009	6.5	TWF63-22-235818	11/03/2021	12/14/2021	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	40	J	9.7	45	Y
63-2009	6.5	TWF63-22-235818	11/03/2021	12/26/2021	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	3.8	J	3.5	45	Y
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	87	U	13	87	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	21	U	10.0	21	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	20	110	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	8.7	100	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	86	U	9.9	86	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	56	U	10	56	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	34	U	5.7	34	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	33	U	6.7	33	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	47	U	6.2	47	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	41	U	11	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	64	U	14	64	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	58	U	15	58	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	33	U	7.1	33	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	30	U	10	30	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	39	U	5.6	39	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	50	U	9.0	50	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	52	U	8.2	52	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	140	U	29	140	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	29	U	11	29	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	100	240	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	14	120	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	71	U	10	71	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/21/2021	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	56	U	12	56	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/22/2021	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	34	U	9.0	34	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/23/2021	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	33	U	8.3	33	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/24/2021	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	8.6	18	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/25/2021	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	13	100	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/26/2021	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	34	U	6.1	34	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/27/2021	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	34	U	19	34	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/28/2021	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	41	U	4.3	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/29/2021	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	31	U	4.1	31	N
63-2009	6.5	TWF63-22-235818	11/03/2021	11/30/2021	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	38	U	3.8	38	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/01/2021	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	12	24	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/02/2021	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	29	U	5.6	29	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/11/2021	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	38	U	12	38	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/12/2021	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	97	U	26	97	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/13/2021	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	45	U	9.3	45	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/15/2021	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	57	U	8.2	57	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/16/2021	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	350	U	160	350	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/17/2021	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	36	U	4.8	36	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/18/2021	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	50	U	11	50	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/19/2021	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	41	U	4.9	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/20/2021	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	41	U	4.6	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/21/2021	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	62	U	24	62	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/22/2021	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	81	U	13	81	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/23/2021	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	78	U	14	78	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2009	6.5	TWF63-22-235818	11/03/2021	12/24/2021	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	41	U	8.8	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	12/25/2021	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	2.2	26	N
63-2009	6.5	TWF63-22-235818	11/03/2021	03/16/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	130	U	19	130	N
63-2009	6.5	TWF63-22-235818	11/03/2021	03/17/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	68	U	25	68	N
63-2009	6.5	TWF63-22-235818	11/03/2021	04/23/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	4.7	U	3.9	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/13/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	36	U	5.2	36	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/14/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	35	U	6.0	35	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/15/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	43	U	6.2	43	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/16/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	38	U	5.9	38	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/17/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	38	U	16	38	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/18/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	41	U	5.4	41	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/19/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	50	U	9.6	50	N
63-2009	6.5	TWF63-22-235818	11/03/2021	10/20/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	64	U	12	64	N
63-2010	6.5	TWF63-22-235819	11/03/2021	07/02/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	100	NQ	9.1	44	Y
63-2010	6.5	TWF63-22-235819	11/03/2021	12/04/2021	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	35	U	5.2	35	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/05/2021	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	34	U	6.0	34	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/06/2021	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	42	U	6.2	42	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/07/2021	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	37	U	5.4	37	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/08/2021	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	37	U	16	37	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/09/2021	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	40	U	4.9	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/10/2021	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	49	U	9.0	49	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/27/2021	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	84	U	13	84	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/28/2021	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	21	U	9.7	21	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/29/2021	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	19	110	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/30/2021	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	8.4	100	N
63-2010	6.5	TWF63-22-235819	11/03/2021	12/31/2021	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	84	U	9.7	84	N
63-2010	6.5	TWF63-22-235819	11/03/2021	01/01/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	54	U	10	54	N
63-2010	6.5	TWF63-22-235819	11/03/2021	01/02/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	33	U	5.7	33	N
63-2010	6.5	TWF63-22-235819	11/03/2021	01/03/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	32	U	6.3	32	N
63-2010	6.5	TWF63-22-235819	11/03/2021	01/04/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	32	U	7.1	32	N
63-2010	6.5	TWF63-22-235819	11/03/2021	01/05/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	29	U	10	29	N
63-2010	6.5	TWF63-22-235819	11/03/2021	01/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	38	U	5.6	38	N
63-2010	6.5	TWF63-22-235819	11/03/2021	04/07/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	40	U	4.9	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	04/08/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	40	U	4.5	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	04/09/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	35	U	6.5	35	N
63-2010	6.5	TWF63-22-235819	11/03/2021	05/27/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	49	U	8.4	49	N
63-2010	6.5	TWF63-22-235819	11/03/2021	05/28/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	51	U	7.5	51	N
63-2010	6.5	TWF63-22-235819	11/03/2021	05/29/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	29	130	N
63-2010	6.5	TWF63-22-235819	11/03/2021	05/30/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	40	U	3.8	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	05/31/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	60	U	23	60	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/01/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	45	U	6.2	45	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/02/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	40	U	11	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/03/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	62	U	14	62	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/04/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	57	U	14	57	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/05/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	37	U	12	37	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/06/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	94	U	25	94	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/07/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	11	24	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/08/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	29	U	5.6	29	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/09/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	28	U	11	28	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2010	6.5	TWF63-22-235819	11/03/2021	06/10/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	140	240	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/11/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	14	120	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/12/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	69	U	10	69	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/13/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	55	U	12	55	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/14/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	33	U	8.6	33	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/15/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	32	U	8.3	32	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/16/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	79	U	13	79	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/17/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	76	U	13	76	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/18/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	40	U	8.3	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/19/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	2.1	26	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/20/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	44	U	3.4	44	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/21/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	19	120	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/22/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	66	U	25	66	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/23/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	62	U	12	62	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/24/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	8.4	18	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/25/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	13	100	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/26/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	33	U	5.7	33	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/27/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	33	U	18	33	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/28/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	40	U	4.2	40	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/29/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	31	U	3.8	31	N
63-2010	6.5	TWF63-22-235819	11/03/2021	06/30/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	37	U	3.7	37	N
63-2010	6.5	TWF63-22-235819	11/03/2021	07/01/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	44	U	8.7	44	N
63-2010	6.5	TWF63-22-235819	11/03/2021	07/03/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	56	U	8.2	56	N
63-2010	6.5	TWF63-22-235819	11/03/2021	07/04/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	340	U	160	340	N
63-2010	6.5	TWF63-22-235819	11/03/2021	07/05/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	35	U	4.3	35	N
63-2010	6.5	TWF63-22-235819	11/03/2021	07/06/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	49	U	11	49	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/13/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	75	NQ	8.6	40	Y
63-2011	6.5	TWF63-22-235820	11/03/2021	03/18/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	36	U	3.8	36	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/19/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	28	U	3.6	28	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/20/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	34	U	3.4	34	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/21/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	11	22	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/22/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	26	U	4.9	26	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/23/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	25	U	10.0	25	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/24/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	130	200	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/25/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	13	100	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/26/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	63	U	9.4	63	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/27/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	50	U	10	50	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/28/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	30	U	8.2	30	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/29/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	29	U	7.5	29	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/30/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	29	U	6.3	29	N
63-2011	6.5	TWF63-22-235820	11/03/2021	03/31/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	9.4	27	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/01/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	5.1	35	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/02/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	44	U	7.8	44	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/03/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	47	U	6.9	47	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/04/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	26	100	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/05/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	36	U	3.5	36	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/06/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	16	U	7.5	16	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/10/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	32	U	4.8	32	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/11/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	5.5	32	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2011	6.5	TWF63-22-235820	11/03/2021	04/12/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	38	U	5.2	38	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/13/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	5.0	34	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/14/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	15	34	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/15/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	36	U	4.7	36	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/16/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	44	U	8.4	44	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/17/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	57	U	12	57	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/18/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	32	U	4.1	32	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/19/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	44	U	9.6	44	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/20/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	36	U	4.4	36	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/21/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	36	U	4.1	36	N
63-2011	6.5	TWF63-22-235820	11/03/2021	04/22/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	32	U	6.1	32	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/07/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	37	U	10	37	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/08/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	57	U	12	57	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/09/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	52	U	13	52	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/10/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	34	U	11	34	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/11/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	23	90	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/12/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	40	U	8.2	40	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/14/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	51	U	7.5	51	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/15/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	150	300	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/16/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	23	60	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/17/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	12	80	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/18/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	8.9	19	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/19/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	18	100	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/20/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	7.5	90	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/21/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	76	U	8.9	76	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/22/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	50	U	8.7	50	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/23/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	30	U	4.9	30	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/24/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	29	U	5.9	29	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/25/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	42	U	5.6	42	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/26/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	17	100	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/27/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	60	U	21	60	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/28/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	70	U	12	70	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/29/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	12	70	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/30/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	36	U	7.8	36	N
63-2011	6.5	TWF63-22-235820	11/03/2021	07/31/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	1.9	24	N
63-2011	6.5	TWF63-22-235820	11/03/2021	08/01/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	40	U	3.2	40	N
63-2011	6.5	TWF63-22-235820	11/03/2021	08/02/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	12	90	N
63-2011	6.5	TWF63-22-235820	11/03/2021	08/03/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	30	U	5.3	30	N
63-2011	6.5	TWF63-22-235820	11/03/2021	08/04/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	30	U	17	30	N
63-2012	24	TWF63-22-235821	11/03/2021	04/24/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	33	J	18	88	Y
63-2012	24	TWF63-22-235821	11/03/2021	04/25/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	78	NQ	14	63	Y
63-2012	24	TWF63-22-235821	11/03/2021	04/26/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	54	J	18	64	Y
63-2012	24	TWF63-22-235821	11/03/2021	04/27/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	36	J	13	82	Y
63-2012	24	TWF63-22-235821	11/03/2021	11/04/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	2200	NQ	15	70	Y
63-2012	24	TWF63-22-235821	11/03/2021	03/09/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	56	U	8.2	56	N
63-2012	24	TWF63-22-235821	11/03/2021	03/10/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	55	U	9.8	55	N
63-2012	24	TWF63-22-235821	11/03/2021	03/11/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	67	U	9.8	67	N
63-2012	24	TWF63-22-235821	11/03/2021	03/12/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	59	U	9.1	59	N
63-2012	24	TWF63-22-235821	11/03/2021	03/13/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	59	U	25	59	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2012	24	TWF63-22-235821	11/03/2021	03/14/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	64	U	8.4	64	N
63-2012	24	TWF63-22-235821	11/03/2021	03/15/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	78	U	15	78	N
63-2012	24	TWF63-22-235821	11/03/2021	04/28/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	120	U	21	120	N
63-2012	24	TWF63-22-235821	11/03/2021	04/29/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	46	U	8.8	46	N
63-2012	24	TWF63-22-235821	11/03/2021	04/30/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	45	U	18	45	N
63-2012	24	TWF63-22-235821	11/03/2021	05/01/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	390	U	230	390	N
63-2012	24	TWF63-22-235821	11/03/2021	05/02/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	190	U	22	190	N
63-2012	24	TWF63-22-235821	11/03/2021	05/03/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	110	U	16	110	N
63-2012	24	TWF63-22-235821	11/03/2021	05/04/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	53	U	14	53	N
63-2012	24	TWF63-22-235821	11/03/2021	05/05/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	52	U	13	52	N
63-2012	24	TWF63-22-235821	11/03/2021	05/06/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	42	U	3.5	42	N
63-2012	24	TWF63-22-235821	11/03/2021	05/07/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	71	U	5.5	71	N
63-2012	24	TWF63-22-235821	11/03/2021	05/08/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	200	U	31	200	N
63-2012	24	TWF63-22-235821	11/03/2021	05/09/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	110	U	40	110	N
63-2012	24	TWF63-22-235821	11/03/2021	05/10/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	140	U	21	140	N
63-2012	24	TWF63-22-235821	11/03/2021	05/11/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	33	U	16	33	N
63-2012	24	TWF63-22-235821	11/03/2021	05/12/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	180	U	32	180	N
63-2012	24	TWF63-22-235821	11/03/2021	05/13/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	160	U	13	160	N
63-2012	24	TWF63-22-235821	11/03/2021	05/14/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	130	U	15	130	N
63-2012	24	TWF63-22-235821	11/03/2021	05/15/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	87	U	16	87	N
63-2012	24	TWF63-22-235821	11/03/2021	05/16/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	53	U	8.9	53	N
63-2012	24	TWF63-22-235821	11/03/2021	05/17/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	52	U	10	52	N
63-2012	24	TWF63-22-235821	11/03/2021	05/18/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	73	U	10	73	N
63-2012	24	TWF63-22-235821	11/03/2021	05/19/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	52	U	11	52	N
63-2012	24	TWF63-22-235821	11/03/2021	05/20/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	47	U	17	47	N
63-2012	24	TWF63-22-235821	11/03/2021	05/21/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	61	U	9.3	61	N
63-2012	24	TWF63-22-235821	11/03/2021	05/22/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	78	U	14	78	N
63-2012	24	TWF63-22-235821	11/03/2021	05/23/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	210	U	45	210	N
63-2012	24	TWF63-22-235821	11/03/2021	05/24/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	64	U	5.9	64	N
63-2012	24	TWF63-22-235821	11/03/2021	05/25/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	98	U	40	98	N
63-2012	24	TWF63-22-235821	11/03/2021	05/26/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	130	U	21	130	N
63-2012	24	TWF63-22-235821	11/03/2021	10/21/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	100	U	20	100	N
63-2012	24	TWF63-22-235821	11/03/2021	10/22/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	29	U	13	29	N
63-2012	24	TWF63-22-235821	11/03/2021	10/23/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	160	U	20	160	N
63-2012	24	TWF63-22-235821	11/03/2021	10/24/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	53	U	9.3	53	N
63-2012	24	TWF63-22-235821	11/03/2021	10/25/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	53	U	29	53	N
63-2012	24	TWF63-22-235821	11/03/2021	10/26/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	64	U	6.9	64	N
63-2012	24	TWF63-22-235821	11/03/2021	10/27/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	49	U	6.4	49	N
63-2012	24	TWF63-22-235821	11/03/2021	10/28/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	60	U	6.0	60	N
63-2012	24	TWF63-22-235821	11/03/2021	10/29/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	38	U	19	38	N
63-2012	24	TWF63-22-235821	11/03/2021	10/30/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	100	U	22	100	N
63-2012	24	TWF63-22-235821	11/03/2021	10/31/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	91	U	23	91	N
63-2012	24	TWF63-22-235821	11/03/2021	11/01/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	60	U	19	60	N
63-2012	24	TWF63-22-235821	11/03/2021	11/02/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	150	U	41	150	N
63-2012	24	TWF63-22-235821	11/03/2021	11/03/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	71	U	14	71	N
63-2012	24	TWF63-22-235821	11/03/2021	11/05/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	89	U	13	89	N
63-2012	24	TWF63-22-235821	11/03/2021	11/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	550	U	260	550	N
63-2012	24	TWF63-22-235821	11/03/2021	11/07/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	56	U	7.4	56	N
63-2012	24	TWF63-22-235821	11/03/2021	11/08/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	78	U	17	78	N

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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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2012	24	TWF63-22-235821	11/03/2021	11/09/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	64	U	7.9	64	N
63-2012	24	TWF63-22-235821	11/03/2021	11/10/2022	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	64	U	7.4	64	N
63-2012	24	TWF63-22-235821	11/03/2021	11/11/2022	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	56	U	10	56	N
63-2012	59	TWF63-22-235822	11/03/2021	08/13/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	94	NQ	7.5	49	Y
63-2012	59	TWF63-22-235822	11/03/2021	11/24/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	170	NQ	7.8	38	Y
63-2012	59	TWF63-22-235822	11/03/2021	11/26/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	9.8	J	3.3	43	Y
63-2012	59	TWF63-22-235822	11/03/2021	12/11/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	64	NQ	11	53	Y
63-2012	59	TWF63-22-235822	11/03/2021	12/13/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	14	J	7.9	31	Y
63-2012	59	TWF63-22-235822	11/03/2021	12/15/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	130	NQ	11	39	Y
63-2012	59	TWF63-22-235822	11/03/2021	12/16/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	24	J	13	60	Y
63-2012	59	TWF63-22-235822	11/03/2021	12/21/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	6400	NQ	8.6	42	Y
63-2012	59	TWF63-22-235822	11/03/2021	08/05/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	54	U	7.5	54	N
63-2012	59	TWF63-22-235822	11/03/2021	08/06/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	330	U	150	330	N
63-2012	59	TWF63-22-235822	11/03/2021	08/07/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	34	U	4.3	34	N
63-2012	59	TWF63-22-235822	11/03/2021	08/08/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	47	U	10	47	N
63-2012	59	TWF63-22-235822	11/03/2021	08/09/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	31	U	6.7	31	N
63-2012	59	TWF63-22-235822	11/03/2021	08/10/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	28	U	9.7	28	N
63-2012	59	TWF63-22-235822	11/03/2021	08/11/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	36	U	5.6	36	N
63-2012	59	TWF63-22-235822	11/03/2021	08/12/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	47	U	8.4	47	N
63-2012	59	TWF63-22-235822	11/03/2021	08/14/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	27	130	N
63-2012	59	TWF63-22-235822	11/03/2021	08/15/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	38	U	3.6	38	N
63-2012	59	TWF63-22-235822	11/03/2021	08/16/2022	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	60	U	12	60	N
63-2012	59	TWF63-22-235822	11/03/2021	08/17/2022	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	34	U	4.8	34	N
63-2012	59	TWF63-22-235822	11/03/2021	08/18/2022	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	33	U	5.5	33	N
63-2012	59	TWF63-22-235822	11/03/2021	08/19/2022	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	40	U	5.7	40	N
63-2012	59	TWF63-22-235822	11/03/2021	08/20/2022	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	35	U	5.4	35	N
63-2012	59	TWF63-22-235822	11/03/2021	08/21/2022	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	35	U	15	35	N
63-2012	59	TWF63-22-235822	11/03/2021	08/22/2022	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	38	U	4.9	38	N
63-2012	59	TWF63-22-235822	11/03/2021	08/23/2022	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	47	U	8.4	47	N
63-2012	59	TWF63-22-235822	11/03/2021	10/12/2022	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	38	U	4.6	38	N
63-2012	59	TWF63-22-235822	11/03/2021	11/12/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	8.0	17	N
63-2012	59	TWF63-22-235822	11/03/2021	11/13/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	97	U	12	97	N
63-2012	59	TWF63-22-235822	11/03/2021	11/14/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	5.7	32	N
63-2012	59	TWF63-22-235822	11/03/2021	11/15/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	32	U	18	32	N
63-2012	59	TWF63-22-235822	11/03/2021	11/16/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	38	U	4.0	38	N
63-2012	59	TWF63-22-235822	11/03/2021	11/17/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3.8	29	N
63-2012	59	TWF63-22-235822	11/03/2021	11/18/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	36	U	3.6	36	N
63-2012	59	TWF63-22-235822	11/03/2021	11/19/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	23	U	11	23	N
63-2012	59	TWF63-22-235822	11/03/2021	11/20/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	5.3	27	N
63-2012	59	TWF63-22-235822	11/03/2021	11/21/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	58	U	23	58	N
63-2012	59	TWF63-22-235822	11/03/2021	11/22/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	76	U	12	76	N
63-2012	59	TWF63-22-235822	11/03/2021	11/23/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	74	U	13	74	N
63-2012	59	TWF63-22-235822	11/03/2021	11/25/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	25	U	2.0	25	N
63-2012	59	TWF63-22-235822	11/03/2021	11/27/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	18	120	N
63-2012	59	TWF63-22-235822	11/03/2021	11/28/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	64	U	25	64	N
63-2012	59	TWF63-22-235822	11/03/2021	11/29/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	82	U	12	82	N
63-2012	59	TWF63-22-235822	11/03/2021	11/30/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9.5	20	N
63-2012	59	TWF63-22-235822	11/03/2021	12/01/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	19	110	N
63-2012	59	TWF63-22-235822	11/03/2021	12/02/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	96	U	8.1	96	N

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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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2012	59	TWF63-22-235822	11/03/2021	12/03/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	81	U	9.3	81	N
63-2012	59	TWF63-22-235822	11/03/2021	12/04/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	52	U	9.4	52	N
63-2012	59	TWF63-22-235822	11/03/2021	12/05/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	5.3	32	N
63-2012	59	TWF63-22-235822	11/03/2021	12/06/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	31	U	6.3	31	N
63-2012	59	TWF63-22-235822	11/03/2021	12/07/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	27	U	10	27	N
63-2012	59	TWF63-22-235822	11/03/2021	12/08/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	230	U	130	230	N
63-2012	59	TWF63-22-235822	11/03/2021	12/09/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	110	U	13	110	N
63-2012	59	TWF63-22-235822	11/03/2021	12/10/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	66	U	9.4	66	N
63-2012	59	TWF63-22-235822	11/03/2021	12/12/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	32	U	8.2	32	N
63-2012	59	TWF63-22-235822	11/03/2021	12/14/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	44	U	5.6	44	N
63-2012	59	TWF63-22-235822	11/03/2021	12/17/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	54	U	14	54	N
63-2012	59	TWF63-22-235822	11/03/2021	12/18/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	36	U	11	36	N
63-2012	59	TWF63-22-235822	11/03/2021	12/19/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	91	U	24	91	N
63-2012	59	TWF63-22-235822	11/03/2021	12/20/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	43	U	8.7	43	N
63-2012	59	TWF63-22-235822	11/03/2021	03/02/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	38	U	4.3	38	N
63-2012	59	TWF63-22-235822	11/03/2021	03/03/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	34	U	6.1	34	N
63-2013	24	TWF63-22-235823	11/03/2021	08/24/2022	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	39	NQ	10	38	Y
63-2013	24	TWF63-22-235823	11/03/2021	08/30/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	300	NQ	8.6	41	Y
63-2013	24	TWF63-22-235823	11/03/2021	09/16/2022	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	36	J	7.8	37	Y
63-2013	24	TWF63-22-235823	11/03/2021	09/18/2022	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	16	J	3.2	41	Y
63-2013	24	TWF63-22-235823	11/03/2021	08/25/2022	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	58	U	13	58	N
63-2013	24	TWF63-22-235823	11/03/2021	08/26/2022	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	53	U	13	53	N
63-2013	24	TWF63-22-235823	11/03/2021	08/27/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	35	U	11	35	N
63-2013	24	TWF63-22-235823	11/03/2021	08/28/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	90	U	23	90	N
63-2013	24	TWF63-22-235823	11/03/2021	08/29/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	41	U	8.2	41	N
63-2013	24	TWF63-22-235823	11/03/2021	08/31/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	52	U	7.5	52	N
63-2013	24	TWF63-22-235823	11/03/2021	09/01/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	300	U	150	300	N
63-2013	24	TWF63-22-235823	11/03/2021	09/02/2022	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	60	U	23	60	N
63-2013	24	TWF63-22-235823	11/03/2021	09/03/2022	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	80	U	12	80	N
63-2013	24	TWF63-22-235823	11/03/2021	09/04/2022	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	19	U	9.2	19	N
63-2013	24	TWF63-22-235823	11/03/2021	09/05/2022	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	100	U	18	100	N
63-2013	24	TWF63-22-235823	11/03/2021	09/06/2022	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	90	U	7.8	90	N
63-2013	24	TWF63-22-235823	11/03/2021	09/07/2022	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	79	U	9.1	79	N
63-2013	24	TWF63-22-235823	11/03/2021	09/08/2022	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	51	U	9.4	51	N
63-2013	24	TWF63-22-235823	11/03/2021	09/09/2022	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	31	U	5.3	31	N
63-2013	24	TWF63-22-235823	11/03/2021	09/10/2022	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	30	U	5.9	30	N
63-2013	24	TWF63-22-235823	11/03/2021	09/11/2022	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	43	U	5.6	43	N
63-2013	24	TWF63-22-235823	11/03/2021	09/12/2022	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	100	U	17	100	N
63-2013	24	TWF63-22-235823	11/03/2021	09/13/2022	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	60	U	23	60	N
63-2013	24	TWF63-22-235823	11/03/2021	09/14/2022	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	70	U	12	70	N
63-2013	24	TWF63-22-235823	11/03/2021	09/15/2022	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	70	U	12	70	N
63-2013	24	TWF63-22-235823	11/03/2021	09/17/2022	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	24	U	2.0	24	N
63-2013	24	TWF63-22-235823	11/03/2021	09/19/2022	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	90	U	12	90	N
63-2013	24	TWF63-22-235823	11/03/2021	09/20/2022	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	31	U	5.3	31	N
63-2013	24	TWF63-22-235823	11/03/2021	09/21/2022	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	31	U	17	31	N
63-2013	24	TWF63-22-235823	11/03/2021	09/22/2022	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	37	U	3.9	37	N
63-2013	24	TWF63-22-235823	11/03/2021	09/23/2022	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	29	U	3.7	29	N
63-2013	24	TWF63-22-235823	11/03/2021	09/24/2022	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	35	U	3.5	35	N
63-2013	24	TWF63-22-235823	11/03/2021	09/25/2022	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	22	U	11	22	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	24	TWF63-22-235823	11/03/2021	09/26/2022	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	27	U	4.9	27	N
63-2013	24	TWF63-22-235823	11/03/2021	09/27/2022	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	26	U	10.0	26	N
63-2013	24	TWF63-22-235823	11/03/2021	09/28/2022	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	130	200	N
63-2013	24	TWF63-22-235823	11/03/2021	09/29/2022	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	100	U	13	100	N
63-2013	24	TWF63-22-235823	11/03/2021	09/30/2022	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	65	U	9.4	65	N
63-2013	24	TWF63-22-235823	11/03/2021	10/01/2022	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	52	U	11	52	N
63-2013	24	TWF63-22-235823	11/03/2021	10/02/2022	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	31	U	8.2	31	N
63-2013	24	TWF63-22-235823	11/03/2021	10/03/2022	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	30	U	7.5	30	N
63-2013	24	TWF63-22-235823	11/03/2021	10/04/2022	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	30	U	6.3	30	N
63-2013	24	TWF63-22-235823	11/03/2021	10/05/2022	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	9.7	27	N
63-2013	24	TWF63-22-235823	11/03/2021	10/06/2022	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	35	U	5.1	35	N
63-2013	24	TWF63-22-235823	11/03/2021	10/07/2022	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	7.8	46	N
63-2013	24	TWF63-22-235823	11/03/2021	10/08/2022	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	48	U	6.9	48	N
63-2013	24	TWF63-22-235823	11/03/2021	10/09/2022	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	100	U	27	100	N
63-2013	24	TWF63-22-235823	11/03/2021	10/10/2022	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	37	U	3.5	37	N
63-2013	24	TWF63-22-235823	11/03/2021	10/11/2022	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	17	U	7.7	17	N
63-2013	24	TWF63-22-235823	11/03/2021	03/04/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	33	U	4.8	33	N
63-2013	24	TWF63-22-235823	11/03/2021	03/05/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	32	U	5.5	32	N
63-2013	24	TWF63-22-235823	11/03/2021	03/06/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	39	U	5.7	39	N
63-2013	24	TWF63-22-235823	11/03/2021	03/07/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	5.0	34	N
63-2013	24	TWF63-22-235823	11/03/2021	03/08/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	15	34	N
63-2013	24	TWF63-22-235823	11/03/2021	03/09/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	37	U	4.8	37	N
63-2013	24	TWF63-22-235823	11/03/2021	03/10/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	8.4	46	N
63-2013	24	TWF63-22-235823	11/03/2021	03/11/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	58	U	12	58	N
63-2013	24	TWF63-22-235823	11/03/2021	03/12/2023	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	33	U	4.2	33	N
63-2013	24	TWF63-22-235823	11/03/2021	03/13/2023	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	10	46	N
63-2013	24	TWF63-22-235823	11/03/2021	03/14/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	37	U	4.5	37	N
63-2013	24	TWF63-22-235823	11/03/2021	03/15/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	37	U	4.1	37	N
63-2013	24	TWF63-22-235823	11/03/2021	03/16/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	6.1	33	N
63-2013	59	TWF63-22-235824	11/03/2021	12/27/2022	VOC	EPA:TO15	REG	GAS	79-01-6	Trichloroethene	1200	NQ	9.1	43	Y
63-2013	59	TWF63-22-235824	11/03/2021	04/14/2023	VOC	EPA:TO15	REG	GAS	75-71-8	Dichlorodifluoromethane	59	NQ	11	40	Y
63-2013	59	TWF63-22-235824	11/03/2021	04/20/2023	VOC	EPA:TO15	REG	GAS	56-23-5	Carbon Tetrachloride	14	J	7.5	50	Y
63-2013	59	TWF63-22-235824	11/03/2021	04/26/2023	VOC	EPA:TO15	REG	GAS	67-66-3	Chloroform	19	J	8.3	39	Y
63-2013	59	TWF63-22-235824	11/03/2021	04/28/2023	VOC	EPA:TO15	REG	GAS	71-55-6	Trichloroethane[1,1,1-]	29	J	3.4	44	Y
63-2013	59	TWF63-22-235824	11/03/2021	05/01/2023	VOC	EPA:TO15	REG	GAS	127-18-4	Tetrachloroethene	12	J	11	54	Y
63-2013	59	TWF63-22-235824	11/03/2021	12/24/2022	VOC	EPA:TO15	REG	GAS	78-87-5	Dichloropropane[1,2-]	37	U	12	37	N
63-2013	59	TWF63-22-235824	11/03/2021	12/25/2022	VOC	EPA:TO15	REG	GAS	78-93-3	Butanone[2-]	94	U	24	94	N
63-2013	59	TWF63-22-235824	11/03/2021	12/26/2022	VOC	EPA:TO15	REG	GAS	79-00-5	Trichloroethane[1,1,2-]	44	U	8.7	44	N
63-2013	59	TWF63-22-235824	11/03/2021	12/28/2022	VOC	EPA:TO15	REG	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	55	U	7.5	55	N
63-2013	59	TWF63-22-235824	11/03/2021	12/29/2022	VOC	EPA:TO15	REG	GAS	87-68-3	Hexachlorobutadiene	340	U	160	340	N
63-2013	59	TWF63-22-235824	11/03/2021	12/30/2022	VOC	EPA:TO15	REG	GAS	95-47-6	Xylene[1,2-]	35	U	4.3	35	N
63-2013	59	TWF63-22-235824	11/03/2021	12/31/2022	VOC	EPA:TO15	REG	GAS	95-50-1	Dichlorobenzene[1,2-]	48	U	11	48	N
63-2013	59	TWF63-22-235824	11/03/2021	01/01/2023	VOC	EPA:TO15	REG	GAS	95-63-6	Trimethylbenzene[1,2,4-]	39	U	4.8	39	N
63-2013	59	TWF63-22-235824	11/03/2021	01/02/2023	VOC	EPA:TO15	REG	GAS	98-82-8	Isopropylbenzene	39	U	4.4	39	N
63-2013	59	TWF63-22-235824	11/03/2021	01/03/2023	VOC	EPA:TO15	REG	GAS	106-93-4	Dibromoethane[1,2-]	61	U	12	61	N
63-2013	59	TWF63-22-235824	11/03/2021	01/04/2023	VOC	EPA:TO15	REG	GAS	106-99-0	Butadiene[1,3-]	18	U	8.2	18	N
63-2013	59	TWF63-22-235824	11/03/2021	03/17/2023	VOC	EPA:TO15	REG	GAS	100-41-4	Ethylbenzene	35	U	5.2	35	N
63-2013	59	TWF63-22-235824	11/03/2021	03/18/2023	VOC	EPA:TO15	REG	GAS	100-42-5	Styrene	34	U	6.0	34	N
63-2013	59	TWF63-22-235824	11/03/2021	03/19/2023	VOC	EPA:TO15	REG	GAS	100-44-7	Benzyl Chloride	41	U	5.7	41	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	59	TWF63-22-235824	11/03/2021	03/20/2023	VOC	EPA:TO15	REG	GAS	10061-01-5	Dichloropropene[cis-1,3-]	36	U	5.4	36	N
63-2013	59	TWF63-22-235824	11/03/2021	03/21/2023	VOC	EPA:TO15	REG	GAS	10061-02-6	Dichloropropene[trans-1,3-]	36	U	15	36	N
63-2013	59	TWF63-22-235824	11/03/2021	03/22/2023	VOC	EPA:TO15	REG	GAS	103-65-1	Propylbenzene[1-]	39	U	4.9	39	N
63-2013	59	TWF63-22-235824	11/03/2021	03/23/2023	VOC	EPA:TO15	REG	GAS	106-46-7	Dichlorobenzene[1,4-]	48	U	9.0	48	N
63-2013	59	TWF63-22-235824	11/03/2021	03/24/2023	VOC	EPA:TO15	REG	GAS	74-83-9	Bromomethane	120	U	19	120	N
63-2013	59	TWF63-22-235824	11/03/2021	03/25/2023	VOC	EPA:TO15	REG	GAS	74-87-3	Chloromethane	66	U	25	66	N
63-2013	59	TWF63-22-235824	11/03/2021	03/26/2023	VOC	EPA:TO15	REG	GAS	75-00-3	Chloroethane	84	U	13	84	N
63-2013	59	TWF63-22-235824	11/03/2021	03/27/2023	VOC	EPA:TO15	REG	GAS	75-01-4	Vinyl Chloride	20	U	9.7	20	N
63-2013	59	TWF63-22-235824	11/03/2021	03/28/2023	VOC	EPA:TO15	REG	GAS	75-09-2	Methylene Chloride	110	U	19	110	N
63-2013	59	TWF63-22-235824	11/03/2021	03/29/2023	VOC	EPA:TO15	REG	GAS	75-15-0	Carbon Disulfide	100	U	8.1	100	N
63-2013	59	TWF63-22-235824	11/03/2021	03/30/2023	VOC	EPA:TO15	REG	GAS	75-25-2	Bromoform	83	U	9.5	83	N
63-2013	59	TWF63-22-235824	11/03/2021	03/31/2023	VOC	EPA:TO15	REG	GAS	75-27-4	Bromodichloromethane	54	U	9.4	54	N
63-2013	59	TWF63-22-235824	11/03/2021	04/01/2023	VOC	EPA:TO15	REG	GAS	107-05-1	Chloro-1-propene[3-]	100	U	12	100	N
63-2013	59	TWF63-22-235824	11/03/2021	04/02/2023	VOC	EPA:TO15	REG	GAS	107-06-2	Dichloroethane[1,2-]	32	U	5.7	32	N
63-2013	59	TWF63-22-235824	11/03/2021	04/03/2023	VOC	EPA:TO15	REG	GAS	108-10-1	Methyl-2-pentanone[4-]	33	U	18	33	N
63-2013	59	TWF63-22-235824	11/03/2021	04/04/2023	VOC	EPA:TO15	REG	GAS	108-67-8	Trimethylbenzene[1,3,5-]	39	U	4.1	39	N
63-2013	59	TWF63-22-235824	11/03/2021	04/05/2023	VOC	EPA:TO15	REG	GAS	108-88-3	Toluene	30	U	3.8	30	N
63-2013	59	TWF63-22-235824	11/03/2021	04/06/2023	VOC	EPA:TO15	REG	GAS	108-90-7	Chlorobenzene	37	U	3.7	37	N
63-2013	59	TWF63-22-235824	11/03/2021	04/07/2023	VOC	EPA:TO15	REG	GAS	109-99-9	Tetrahydrofuran	24	U	11	24	N
63-2013	59	TWF63-22-235824	11/03/2021	04/08/2023	VOC	EPA:TO15	REG	GAS	110-54-3	Hexane	28	U	5.3	28	N
63-2013	59	TWF63-22-235824	11/03/2021	04/09/2023	VOC	EPA:TO15	REG	GAS	110-82-7	Cyclohexane	28	U	11	28	N
63-2013	59	TWF63-22-235824	11/03/2021	04/10/2023	VOC	EPA:TO15	REG	GAS	120-82-1	Trichlorobenzene[1,2,4-]	240	U	140	240	N
63-2013	59	TWF63-22-235824	11/03/2021	04/11/2023	VOC	EPA:TO15	REG	GAS	75-34-3	Dichloroethane[1,1-]	32	U	5.3	32	N
63-2013	59	TWF63-22-235824	11/03/2021	04/12/2023	VOC	EPA:TO15	REG	GAS	75-35-4	Dichloroethene[1,1-]	32	U	6.3	32	N
63-2013	59	TWF63-22-235824	11/03/2021	04/13/2023	VOC	EPA:TO15	REG	GAS	75-69-4	Trichlorofluoromethane	45	U	6.2	45	N
63-2013	59	TWF63-22-235824	11/03/2021	04/15/2023	VOC	EPA:TO15	REG	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	61	U	14	61	N
63-2013	59	TWF63-22-235824	11/03/2021	04/16/2023	VOC	EPA:TO15	REG	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	56	U	14	56	N
63-2013	59	TWF63-22-235824	11/03/2021	04/17/2023	VOC	EPA:TO15	REG	GAS	1634-04-4	Methyl tert-Butyl Ether	29	U	10	29	N
63-2013	59	TWF63-22-235824	11/03/2021	04/18/2023	VOC	EPA:TO15	REG	GAS	540-84-1	Isooctane	37	U	5.6	37	N
63-2013	59	TWF63-22-235824	11/03/2021	04/19/2023	VOC	EPA:TO15	REG	GAS	541-73-1	Dichlorobenzene[1,3-]	48	U	8.4	48	N
63-2013	59	TWF63-22-235824	11/03/2021	04/21/2023	VOC	EPA:TO15	REG	GAS	591-78-6	Hexanone[2-]	130	U	28	130	N
63-2013	59	TWF63-22-235824	11/03/2021	04/22/2023	VOC	EPA:TO15	REG	GAS	622-96-8	Ethyltoluene[4-]	39	U	3.7	39	N
63-2013	59	TWF63-22-235824	11/03/2021	04/23/2023	VOC	EPA:TO15	REG	GAS	64-17-5	Ethanol	60	U	23	60	N
63-2013	59	TWF63-22-235824	11/03/2021	04/24/2023	VOC	EPA:TO15	REG	GAS	67-63-0	Propanol[2-]	79	U	13	79	N
63-2013	59	TWF63-22-235824	11/03/2021	04/25/2023	VOC	EPA:TO15	REG	GAS	67-64-1	Acetone	76	U	13	76	N
63-2013	59	TWF63-22-235824	11/03/2021	04/27/2023	VOC	EPA:TO15	REG	GAS	71-43-2	Benzene	26	U	2.1	26	N
63-2013	59	TWF63-22-235824	11/03/2021	04/29/2023	VOC	EPA:TO15	REG	GAS	123-91-1	Dioxane[1,4-]	120	U	14	120	N
63-2013	59	TWF63-22-235824	11/03/2021	04/30/2023	VOC	EPA:TO15	REG	GAS	124-48-1	Chlorodibromomethane	68	U	10	68	N
63-2013	59	TWF63-22-235824	11/03/2021	05/02/2023	VOC	EPA:TO15	REG	GAS	142-82-5	n-Heptane	33	U	8.6	33	N
63-2013	59	TWF63-22-235824	11/03/2021	05/03/2023	VOC	EPA:TO15	REG	GAS	156-59-2	Dichloroethene[cis-1,2-]	32	U	7.9	32	N
63-2013	59	TWF63-22-235824	11/03/2021	05/04/2023	VOC	EPA:TO15	REG	GAS	156-60-5	Dichloroethene[trans-1,2-]	32	U	6.7	32	N
63-2013	59	TWF63-22-235824	11/03/2021	05/05/2023	VOC	EPA:TO15	REG	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	35	U	6.5	35	N
63-2013	59	TWF63-22-235825	11/03/2021	01/17/2023	VOC	EPA:TO15	FD	GAS	56-23-5	Carbon Tetrachloride	15	J	6.9	48	Y
63-2013	59	TWF63-22-235825	11/03/2021	01/22/2023	VOC	EPA:TO15	FD	GAS	75-71-8	Dichlorodifluoromethane	54	NQ	10	38	Y
63-2013	59	TWF63-22-235825	11/03/2021	02/07/2023	VOC	EPA:TO15	FD	GAS	67-66-3	Chloroform	22	J	7.8	37	Y
63-2013	59	TWF63-22-235825	11/03/2021	02/09/2023	VOC	EPA:TO15	FD	GAS	71-55-6	Trichloroethane[1,1,1-]	31	J	3.2	41	Y
63-2013	59	TWF63-22-235825	11/03/2021	02/21/2023	VOC	EPA:TO15	FD	GAS	79-01-6	Trichloroethene	1200	NQ	8.6	41	Y
63-2013	59	TWF63-22-235825	11/03/2021	02/21/2022	VOC	EPA:TO15	FD	GAS	95-63-6	Trimethylbenzene[1,2,4-]	37	U	4.5	37	N
63-2013	59	TWF63-22-235825	11/03/2021	02/22/2022	VOC	EPA:TO15	FD	GAS	98-82-8	Isopropylbenzene	37	U	4.1	37	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	59	TWF63-22-235825	11/03/2021	02/23/2022	VOC	EPA:TO15	FD	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	33	U	6.1	33	N
63-2013	59	TWF63-22-235825	11/03/2021	12/22/2022	VOC	EPA:TO15	FD	GAS	103-65-1	Propylbenzene[1-]	37	U	4.8	37	N
63-2013	59	TWF63-22-235825	11/03/2021	12/23/2022	VOC	EPA:TO15	FD	GAS	106-46-7	Dichlorobenzene[1,4-]	46	U	8.4	46	N
63-2013	59	TWF63-22-235825	11/03/2021	01/05/2023	VOC	EPA:TO15	FD	GAS	75-00-3	Chloroethane	80	U	12	80	N
63-2013	59	TWF63-22-235825	11/03/2021	01/06/2023	VOC	EPA:TO15	FD	GAS	75-01-4	Vinyl Chloride	19	U	9.2	19	N
63-2013	59	TWF63-22-235825	11/03/2021	01/07/2023	VOC	EPA:TO15	FD	GAS	75-09-2	Methylene Chloride	100	U	18	100	N
63-2013	59	TWF63-22-235825	11/03/2021	01/08/2023	VOC	EPA:TO15	FD	GAS	75-15-0	Carbon Disulfide	90	U	7.8	90	N
63-2013	59	TWF63-22-235825	11/03/2021	01/09/2023	VOC	EPA:TO15	FD	GAS	75-25-2	Bromoform	79	U	9.1	79	N
63-2013	59	TWF63-22-235825	11/03/2021	01/10/2023	VOC	EPA:TO15	FD	GAS	75-27-4	Bromodichloromethane	51	U	9.4	51	N
63-2013	59	TWF63-22-235825	11/03/2021	01/11/2023	VOC	EPA:TO15	FD	GAS	75-34-3	Dichloroethane[1,1-]	31	U	5.3	31	N
63-2013	59	TWF63-22-235825	11/03/2021	01/12/2023	VOC	EPA:TO15	FD	GAS	75-35-4	Dichloroethene[1,1-]	30	U	5.9	30	N
63-2013	59	TWF63-22-235825	11/03/2021	01/13/2023	VOC	EPA:TO15	FD	GAS	156-60-5	Dichloroethene[trans-1,2-]	30	U	6.3	30	N
63-2013	59	TWF63-22-235825	11/03/2021	01/14/2023	VOC	EPA:TO15	FD	GAS	1634-04-4	Methyl tert-Butyl Ether	27	U	9.7	27	N
63-2013	59	TWF63-22-235825	11/03/2021	01/15/2023	VOC	EPA:TO15	FD	GAS	540-84-1	Isooctane	35	U	5.1	35	N
63-2013	59	TWF63-22-235825	11/03/2021	01/16/2023	VOC	EPA:TO15	FD	GAS	541-73-1	Dichlorobenzene[1,3-]	46	U	7.8	46	N
63-2013	59	TWF63-22-235825	11/03/2021	01/18/2023	VOC	EPA:TO15	FD	GAS	591-78-6	Hexanone[2-]	100	U	27	100	N
63-2013	59	TWF63-22-235825	11/03/2021	01/19/2023	VOC	EPA:TO15	FD	GAS	622-96-8	Ethyltoluene[4-]	37	U	3.5	37	N
63-2013	59	TWF63-22-235825	11/03/2021	01/20/2023	VOC	EPA:TO15	FD	GAS	64-17-5	Ethanol	60	U	23	60	N
63-2013	59	TWF63-22-235825	11/03/2021	01/21/2023	VOC	EPA:TO15	FD	GAS	75-69-4	Trichlorofluoromethane	43	U	5.6	43	N
63-2013	59	TWF63-22-235825	11/03/2021	01/23/2023	VOC	EPA:TO15	FD	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	58	U	13	58	N
63-2013	59	TWF63-22-235825	11/03/2021	01/24/2023	VOC	EPA:TO15	FD	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	53	U	13	53	N
63-2013	59	TWF63-22-235825	11/03/2021	01/25/2023	VOC	EPA:TO15	FD	GAS	78-87-5	Dichloropropane[1,2-]	35	U	11	35	N
63-2013	59	TWF63-22-235825	11/03/2021	01/26/2023	VOC	EPA:TO15	FD	GAS	78-93-3	Butanone[2-]	90	U	23	90	N
63-2013	59	TWF63-22-235825	11/03/2021	01/27/2023	VOC	EPA:TO15	FD	GAS	109-99-9	Tetrahydrofuran	22	U	11	22	N
63-2013	59	TWF63-22-235825	11/03/2021	01/28/2023	VOC	EPA:TO15	FD	GAS	110-54-3	Hexane	27	U	4.9	27	N
63-2013	59	TWF63-22-235825	11/03/2021	01/29/2023	VOC	EPA:TO15	FD	GAS	110-82-7	Cyclohexane	26	U	10.0	26	N
63-2013	59	TWF63-22-235825	11/03/2021	01/30/2023	VOC	EPA:TO15	FD	GAS	120-82-1	Trichlorobenzene[1,2,4-]	200	U	130	200	N
63-2013	59	TWF63-22-235825	11/03/2021	01/31/2023	VOC	EPA:TO15	FD	GAS	123-91-1	Dioxane[1,4-]	100	U	13	100	N
63-2013	59	TWF63-22-235825	11/03/2021	02/01/2023	VOC	EPA:TO15	FD	GAS	124-48-1	Chlorodibromomethane	65	U	9.4	65	N
63-2013	59	TWF63-22-235825	11/03/2021	02/02/2023	VOC	EPA:TO15	FD	GAS	127-18-4	Tetrachloroethene	52	U	11	52	N
63-2013	59	TWF63-22-235825	11/03/2021	02/03/2023	VOC	EPA:TO15	FD	GAS	142-82-5	n-Heptane	31	U	8.2	31	N
63-2013	59	TWF63-22-235825	11/03/2021	02/04/2023	VOC	EPA:TO15	FD	GAS	156-59-2	Dichloroethene[cis-1,2-]	30	U	7.5	30	N
63-2013	59	TWF63-22-235825	11/03/2021	02/05/2023	VOC	EPA:TO15	FD	GAS	67-63-0	Propanol[2-]	70	U	12	70	N
63-2013	59	TWF63-22-235825	11/03/2021	02/06/2023	VOC	EPA:TO15	FD	GAS	67-64-1	Acetone	70	U	12	70	N
63-2013	59	TWF63-22-235825	11/03/2021	02/08/2023	VOC	EPA:TO15	FD	GAS	71-43-2	Benzene	24	U	2.0	24	N
63-2013	59	TWF63-22-235825	11/03/2021	02/10/2023	VOC	EPA:TO15	FD	GAS	74-83-9	Bromomethane	100	U	17	100	N
63-2013	59	TWF63-22-235825	11/03/2021	02/11/2023	VOC	EPA:TO15	FD	GAS	74-87-3	Chloromethane	60	U	23	60	N
63-2013	59	TWF63-22-235825	11/03/2021	02/12/2023	VOC	EPA:TO15	FD	GAS	106-93-4	Dibromoethane[1,2-]	58	U	12	58	N
63-2013	59	TWF63-22-235825	11/03/2021	02/13/2023	VOC	EPA:TO15	FD	GAS	106-99-0	Butadiene[1,3-]	17	U	7.7	17	N
63-2013	59	TWF63-22-235825	11/03/2021	02/14/2023	VOC	EPA:TO15	FD	GAS	107-05-1	Chloro-1-propene[3-]	90	U	12	90	N
63-2013	59	TWF63-22-235825	11/03/2021	02/15/2023	VOC	EPA:TO15	FD	GAS	107-06-2	Dichloroethane[1,2-]	31	U	5.3	31	N
63-2013	59	TWF63-22-235825	11/03/2021	02/16/2023	VOC	EPA:TO15	FD	GAS	108-10-1	Methyl-2-pentanone[4-]	31	U	17	31	N
63-2013	59	TWF63-22-235825	11/03/2021	02/17/2023	VOC	EPA:TO15	FD	GAS	108-67-8	Trimethylbenzene[1,3,5-]	37	U	3.9	37	N
63-2013	59	TWF63-22-235825	11/03/2021	02/18/2023	VOC	EPA:TO15	FD	GAS	108-88-3	Toluene	29	U	3.7	29	N
63-2013	59	TWF63-22-235825	11/03/2021	02/19/2023	VOC	EPA:TO15	FD	GAS	108-90-7	Chlorobenzene	35	U	3.5	35	N
63-2013	59	TWF63-22-235825	11/03/2021	02/20/2023	VOC	EPA:TO15	FD	GAS	79-00-5	Trichloroethane[1,1,2-]	41	U	8.2	41	N
63-2013	59	TWF63-22-235825	11/03/2021	02/22/2023	VOC	EPA:TO15	FD	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	52	U	7.5	52	N
63-2013	59	TWF63-22-235825	11/03/2021	02/23/2023	VOC	EPA:TO15	FD	GAS	87-68-3	Hexachlorobutadiene	300	U	150	300	N
63-2013	59	TWF63-22-235825	11/03/2021	02/24/2023	VOC	EPA:TO15	FD	GAS	95-47-6	Xylene[1,2-]	33	U	4.2	33	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013	59	TWF63-22-235825	11/03/2021	02/25/2023	VOC	EPA:TO15	FD	GAS	95-50-1	Dichlorobenzene[1,2-]	46	U	10	46	N
63-2013	59	TWF63-22-235825	11/03/2021	05/06/2023	VOC	EPA:TO15	FD	GAS	100-41-4	Ethylbenzene	33	U	4.8	33	N
63-2013	59	TWF63-22-235825	11/03/2021	05/07/2023	VOC	EPA:TO15	FD	GAS	100-42-5	Styrene	32	U	5.5	32	N
63-2013	59	TWF63-22-235825	11/03/2021	05/08/2023	VOC	EPA:TO15	FD	GAS	100-44-7	Benzyl Chloride	39	U	5.7	39	N
63-2013	59	TWF63-22-235825	11/03/2021	05/09/2023	VOC	EPA:TO15	FD	GAS	10061-01-5	Dichloropropene[cis-1,3-]	34	U	5.0	34	N
63-2013	59	TWF63-22-235825	11/03/2021	05/10/2023	VOC	EPA:TO15	FD	GAS	10061-02-6	Dichloropropene[trans-1,3-]	34	U	15	34	N
63-2013		TWF63-22-235826	11/03/2021	01/07/2022	VOC	EPA:TO15	FB	GAS	78-93-3	Butanone[2-]	150	U	41	150	N
63-2013		TWF63-22-235826	11/03/2021	01/08/2022	VOC	EPA:TO15	FB	GAS	79-00-5	Trichloroethane[1,1,2-]	71	U	14	71	N
63-2013		TWF63-22-235826	11/03/2021	01/09/2022	VOC	EPA:TO15	FB	GAS	79-01-6	Trichloroethene	70	U	15	70	N
63-2013		TWF63-22-235826	11/03/2021	01/10/2022	VOC	EPA:TO15	FB	GAS	79-34-5	Tetrachloroethane[1,1,2,2-]	89	U	13	89	N
63-2013		TWF63-22-235826	11/03/2021	01/11/2022	VOC	EPA:TO15	FB	GAS	87-68-3	Hexachlorobutadiene	550	U	260	550	N
63-2013		TWF63-22-235826	11/03/2021	01/12/2022	VOC	EPA:TO15	FB	GAS	74-87-3	Chloromethane	110	U	40	110	N
63-2013		TWF63-22-235826	11/03/2021	01/13/2022	VOC	EPA:TO15	FB	GAS	75-00-3	Chloroethane	140	U	21	140	N
63-2013		TWF63-22-235826	11/03/2021	01/14/2022	VOC	EPA:TO15	FB	GAS	75-01-4	Vinyl Chloride	33	U	16	33	N
63-2013		TWF63-22-235826	11/03/2021	01/15/2022	VOC	EPA:TO15	FB	GAS	75-09-2	Methylene Chloride	180	U	31	180	N
63-2013		TWF63-22-235826	11/03/2021	01/16/2022	VOC	EPA:TO15	FB	GAS	75-15-0	Carbon Disulfide	160	U	13	160	N
63-2013		TWF63-22-235826	11/03/2021	01/17/2022	VOC	EPA:TO15	FB	GAS	75-25-2	Bromoform	130	U	15	130	N
63-2013		TWF63-22-235826	11/03/2021	01/18/2022	VOC	EPA:TO15	FB	GAS	75-27-4	Bromodichloromethane	87	U	16	87	N
63-2013		TWF63-22-235826	11/03/2021	01/19/2022	VOC	EPA:TO15	FB	GAS	75-34-3	Dichloroethane[1,1-]	53	U	8.9	53	N
63-2013		TWF63-22-235826	11/03/2021	01/20/2022	VOC	EPA:TO15	FB	GAS	75-35-4	Dichloroethene[1,1-]	52	U	10	52	N
63-2013		TWF63-22-235826	11/03/2021	01/21/2022	VOC	EPA:TO15	FB	GAS	75-69-4	Trichlorofluoromethane	73	U	9.5	73	N
63-2013		TWF63-22-235826	11/03/2021	01/22/2022	VOC	EPA:TO15	FB	GAS	74-83-9	Bromomethane	200	U	30	200	N
63-2013		TWF63-22-235826	11/03/2021	01/23/2022	VOC	EPA:TO15	FB	GAS	64-17-5	Ethanol	98	U	40	98	N
63-2013		TWF63-22-235826	11/03/2021	01/24/2022	VOC	EPA:TO15	FB	GAS	67-63-0	Propanol[2-]	130	U	20	130	N
63-2013		TWF63-22-235826	11/03/2021	01/25/2022	VOC	EPA:TO15	FB	GAS	67-64-1	Acetone	120	U	21	120	N
63-2013		TWF63-22-235826	11/03/2021	01/26/2022	VOC	EPA:TO15	FB	GAS	67-66-3	Chloroform	63	U	13	63	N
63-2013		TWF63-22-235826	11/03/2021	01/27/2022	VOC	EPA:TO15	FB	GAS	71-43-2	Benzene	42	U	3.5	42	N
63-2013		TWF63-22-235826	11/03/2021	01/28/2022	VOC	EPA:TO15	FB	GAS	71-55-6	Trichloroethane[1,1,1-]	71	U	5.5	71	N
63-2013		TWF63-22-235826	11/03/2021	01/29/2022	VOC	EPA:TO15	FB	GAS	107-05-1	Chloro-1-propene[3-]	160	U	20	160	N
63-2013		TWF63-22-235826	11/03/2021	01/30/2022	VOC	EPA:TO15	FB	GAS	107-06-2	Dichloroethane[1,2-]	53	U	9.3	53	N
63-2013		TWF63-22-235826	11/03/2021	01/31/2022	VOC	EPA:TO15	FB	GAS	108-10-1	Methyl-2-pentanone[4-]	53	U	29	53	N
63-2013		TWF63-22-235826	11/03/2021	02/01/2022	VOC	EPA:TO15	FB	GAS	108-67-8	Trimethylbenzene[1,3,5-]	64	U	6.9	64	N
63-2013		TWF63-22-235826	11/03/2021	02/02/2022	VOC	EPA:TO15	FB	GAS	108-88-3	Toluene	49	U	6.4	49	N
63-2013		TWF63-22-235826	11/03/2021	02/03/2022	VOC	EPA:TO15	FB	GAS	108-90-7	Chlorobenzene	60	U	6.0	60	N
63-2013		TWF63-22-235826	11/03/2021	02/04/2022	VOC	EPA:TO15	FB	GAS	109-99-9	Tetrahydrofuran	38	U	18	38	N
63-2013		TWF63-22-235826	11/03/2021	02/05/2022	VOC	EPA:TO15	FB	GAS	110-54-3	Hexane	46	U	8.8	46	N
63-2013		TWF63-22-235826	11/03/2021	02/06/2022	VOC	EPA:TO15	FB	GAS	110-82-7	Cyclohexane	45	U	17	45	N
63-2013		TWF63-22-235826	11/03/2021	02/07/2022	VOC	EPA:TO15	FB	GAS	120-82-1	Trichlorobenzene[1,2,4-]	390	U	230	390	N
63-2013		TWF63-22-235826	11/03/2021	02/08/2022	VOC	EPA:TO15	FB	GAS	123-91-1	Dioxane[1,4-]	190	U	22	190	N
63-2013		TWF63-22-235826	11/03/2021	02/09/2022	VOC	EPA:TO15	FB	GAS	124-48-1	Chlorodibromomethane	110	U	16	110	N
63-2013		TWF63-22-235826	11/03/2021	02/10/2022	VOC	EPA:TO15	FB	GAS	127-18-4	Tetrachloroethene	88	U	18	88	N
63-2013		TWF63-22-235826	11/03/2021	02/11/2022	VOC	EPA:TO15	FB	GAS	142-82-5	n-Heptane	53	U	14	53	N
63-2013		TWF63-22-235826	11/03/2021	02/12/2022	VOC	EPA:TO15	FB	GAS	156-59-2	Dichloroethene[cis-1,2-]	52	U	13	52	N
63-2013		TWF63-22-235826	11/03/2021	02/13/2022	VOC	EPA:TO15	FB	GAS	156-60-5	Dichloroethene[trans-1,2-]	52	U	11	52	N
63-2013		TWF63-22-235826	11/03/2021	02/14/2022	VOC	EPA:TO15	FB	GAS	1634-04-4	Methyl tert-Butyl Ether	47	U	17	47	N
63-2013		TWF63-22-235826	11/03/2021	02/15/2022	VOC	EPA:TO15	FB	GAS	540-84-1	Isooctane	61	U	8.9	61	N
63-2013		TWF63-22-235826	11/03/2021	02/16/2022	VOC	EPA:TO15	FB	GAS	541-73-1	Dichlorobenzene[1,3-]	78	U	14	78	N
63-2013		TWF63-22-235826	11/03/2021	02/17/2022	VOC	EPA:TO15	FB	GAS	56-23-5	Carbon Tetrachloride	82	U	13	82	N
63-2013		TWF63-22-235826	11/03/2021	02/18/2022	VOC	EPA:TO15	FB	GAS	591-78-6	Hexanone[2-]	210	U	45	210	N

Table 2: Volatile Organic Compound Analytical Results for Soil Vapor Monitoring Wells at TA-63 Transuranic Waste Facility - Quarter 17

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 (ug/m3)	Validation Qualifier	Report Method Detection Limit (ug/m3)	Report Detection Limit (ug/m3)	Detected
63-2013		TWF63-22-235826	11/03/2021	02/19/2022	VOC	EPA:TO15	FB	GAS	622-96-8	Ethyltoluene[4-]	64	U	5.9	64	N
63-2013		TWF63-22-235826	11/03/2021	02/20/2022	VOC	EPA:TO15	FB	GAS	106-99-0	Butadiene[1,3-]	29	U	13	29	N
63-2013		TWF63-22-235826	11/03/2021	02/24/2022	VOC	EPA:TO15	FB	GAS	100-41-4	Ethylbenzene	56	U	8.2	56	N
63-2013		TWF63-22-235826	11/03/2021	02/25/2022	VOC	EPA:TO15	FB	GAS	100-42-5	Styrene	55	U	9.4	55	N
63-2013		TWF63-22-235826	11/03/2021	02/26/2022	VOC	EPA:TO15	FB	GAS	100-44-7	Benzyl Chloride	67	U	9.3	67	N
63-2013		TWF63-22-235826	11/03/2021	02/27/2022	VOC	EPA:TO15	FB	GAS	10061-01-5	Dichloropropene[cis-1,3-]	59	U	9.1	59	N
63-2013		TWF63-22-235826	11/03/2021	02/28/2022	VOC	EPA:TO15	FB	GAS	10061-02-6	Dichloropropene[trans-1,3-]	59	U	25	59	N
63-2013		TWF63-22-235826	11/03/2021	03/01/2022	VOC	EPA:TO15	FB	GAS	103-65-1	Propylbenzene[1-]	64	U	7.9	64	N
63-2013		TWF63-22-235826	11/03/2021	03/02/2022	VOC	EPA:TO15	FB	GAS	106-46-7	Dichlorobenzene[1,4-]	78	U	14	78	N
63-2013		TWF63-22-235826	11/03/2021	03/03/2022	VOC	EPA:TO15	FB	GAS	106-93-4	Dibromoethane[1,2-]	100	U	20	100	N
63-2013		TWF63-22-235826	11/03/2021	03/04/2022	VOC	EPA:TO15	FB	GAS	95-47-6	Xylene[1,2-]	56	U	6.9	56	N
63-2013		TWF63-22-235826	11/03/2021	03/05/2022	VOC	EPA:TO15	FB	GAS	95-50-1	Dichlorobenzene[1,2-]	78	U	17	78	N
63-2013		TWF63-22-235826	11/03/2021	03/06/2022	VOC	EPA:TO15	FB	GAS	95-63-6	Trimethylbenzene[1,2,4-]	64	U	7.9	64	N
63-2013		TWF63-22-235826	11/03/2021	03/07/2022	VOC	EPA:TO15	FB	GAS	98-82-8	Isopropylbenzene	64	U	6.9	64	N
63-2013		TWF63-22-235826	11/03/2021	03/08/2022	VOC	EPA:TO15	FB	GAS	Xylene[m+p]	Xylene[1,3-]+Xylene[1,4-]	56	U	10	56	N
63-2013		TWF63-22-235826	11/03/2021	02/26/2023	VOC	EPA:TO15	FB	GAS	75-71-8	Dichlorodifluoromethane	64	U	18	64	N
63-2013		TWF63-22-235826	11/03/2021	02/27/2023	VOC	EPA:TO15	FB	GAS	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	100	U	22	100	N
63-2013		TWF63-22-235826	11/03/2021	02/28/2023	VOC	EPA:TO15	FB	GAS	76-14-2	Dichloro-1,1,2,2-tetrafluoroethane[1,2-]	91	U	23	91	N
63-2013		TWF63-22-235826	11/03/2021	03/01/2023	VOC	EPA:TO15	FB	GAS	78-87-5	Dichloropropane[1,2-]	60	U	19	60	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 qualifiers

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 (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/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	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							
	Dichlorodifluoromethane															5.9	<0.1					
VMW-4 (25) 63-2012	Trichloroethylene	3810	2.4	2793	1.8	3437	2.2	2954	1.9	2900	1.8	2900	1.8	2790	1.8	3010	1.9	2790	1.8	2740	1.7	
	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																			
	Bromodichloromethane																	6.6	<0.1			
VMW-4 (60) 63-2012	Trichloroethylene	8060	8.7	6980	7.5	8590	9.3	8060	8.7	8060	8.7	7520	8.1	7520	8.1	8590	9.3	6980	7.5	7520	8.1	
	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	<0.1	
	Dichlorodifluoromethane	143	<0.1	158	<0.1	148	<0.1	193	<0.1	168	<0.1	168	<0.1	183	<0.1	133	<0.1	148	<0.1	173	<0.1	
	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						

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 (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)
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										
	Trichloroethylene					3276	2.1					2790	1.8								
VMW-4 (25) 63-2012(FD)	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														
	Dichlorodifluoromethane					74.1	<0.1					79.1	<0.1								
	Trichloroethylene							8593	9.3												
VWM-4 (60) 23-2012(FD)	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												
	1,1,2-Trichloro-1,2,2-trifluoroethane							32.2	<0.1												
VMW-5 (25) 63-2013(FD)	Trichloroethylene	451	0.3																		
	Tetrachloroethylene	8.8	<0.1																		
	Chloroform	30.7	0.1																		
	1,1,1-Trichloroethane	32.7	<0.1																		
	Dichlorodifluoromethane	59.3	<0.1																		
VMW-5 (60) 63-2013(FD)	Trichloroethylene															1560	1.7	1340	1.4	1340	1.4
	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

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

Well ID (Port(ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17	
		Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/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
	Toluene														
	Tetrachloroethylene														
	cis-1,2-Dichloroethylene														
	Acetone														
	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
	Dichlorodifluoromethane	6.9	<0.1	5.9	<0.1	5.9	<0.1								
	Acetone														
	1,1,1-Trichloroethane					5.1	<0.1								
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
	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
	Tetrachloroethylene			40	<0.1	40	<0.1	35	<0.1	26	<0.1	37	<0.1	33	<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
	Chloroform	93	0.4	88	0.4	83	0.5	88	0.8	78	0.7	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
	1,1,2-Trichloro-1,2,2-trifluoroethane	19	<0.1												
	1,1,1-Trichloroethane	9.3	<0.1	5.5	<0.1										
VMW-4 (60) 63-2012	Bromodichloromethane														
	Trichloroethylene	7500	8.1	7500	8.1	7500	8.1	7000	7.6	7500	8.1	6400	6.9	6400	6.9
	Tetrachloroethylene	81	<0.1	81	<0.1	75	<0.1	75	<0.1	75	<0.1	75	<0.1	64	<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
	Carbon tetrachloride	100	<0.1	100	<0.1	110	<0.1	94	<0.1	88	<0.1	82	0.2	94	<0.1
	Chloroform	240	0.5	200	0.5	200	0.4	200	0.5	180	0.4	160	0.4	170	0.4
	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
	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
	Toluene														
VMW-5 (25) 63-2013	Acetone														
	Trichlorofluoromethane							7.3	<0.1						
	Trichloroethylene	380	0.2	390	0.2	400	0.3	360	0.2	360	0.2	310	0.2	300	0.2
	Chloroform	41	0.2	40	0.2	35	0.2	36	0.3	37	0.3	35	0.2	36	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
	Dichlorodifluoromethane	47	<0.1	37	<0.1	47	<0.1	41	<0.1	38	<0.1	31	<0.1	39	<0.1
VMW-5 (60) 63-2013	Tetrachloroethylene														
	Acetone														
	Carbon tetrachloride														
	Trichloroethylene	1400	1.5	1400	1.5	1300	1.4	1300	1.4	1300	1.4	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
	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
	Dichlorodifluoromethane	84	<0.1	69	<0.1	74	<0.1	69	<0.1	54	<0.1	59	<0.1	59	<0.1
1,1,2-Trichloro-1,2,2-trifluoroethane			17	<0.1											
Toluene															
Carbon tetrachloride	19	<0.1	18	<0.1	18	<0.1	19	<0.1	14	<0.1	15	<0.1	14	<0.1	
Acetone															

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

Well ID (Port(ft))	Constituent	Q11		Q12		Q13		Q14		Q15		Q16		Q17	
		Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)	Result (ug/m3)	Percent of SGSL (%)
Field Duplicates:															
VMW-1 (5) 63-2009(FD)	Trichloroethylene														
	Dichlorodifluoromethane														
VMW-3 (5) 63-2011(FD)	Trichloroethylene														
VMW-4 (25) 63-2012(FD)	Trichloroethylene														
	Tetrachloroethylene														
	Carbon tetrachloride														
	Chloroform														
	1,1,1-Trichloroethane														
VWM-4 (60) 23-2012(FD)	Dichlorodifluoromethane														
	Trichloroethylene														
	Tetrachloroethylene														
	cis-1,2-Dichloroethylene														
	Carbon tetrachloride														
	Chloroform														
VMW-5 (25) 63-2013(FD)	Dichlorodifluoromethane														
	1,1,2-Trichloro-1,2,2-trifluoroethane														
	Trichloroethylene														
	Tetrachloroethylene														
	Chloroform														
VMW-5 (60) 63-2013(FD)	1,1,1-Trichloroethane														
	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 Analysis

	VMW-1 5ft (ug/m3)	VMW-2 5ft (ug/m3)	VMW-3 5ft (ug/m3)	VMW-4 25ft (ug/m3)	VMW-4 60ft (ug/m3)	VMW-5 25ft (ug/m3)	VMW-5 60ft (ug/m3)
Quarter 1	64.4	134	69.8	3810	8060	483	1340
Quarter 2	31.1	80.6	64.4	2793	6982	258	1343
Quarter 3	48.3	129	96.7	3437	8593	414	1557
Quarter 4	53.7	85.9	59.1	2954	8056	344	1504
Quarter 5	43.5	107	75.2	2900	8056	365	1396
Quarter 6	36	113	85.9	2900	7520	360	1400
Quarter 7	44	118	107	2790	7520	360	1560
Quarter 8	59.1	102	85.9	3010	8590	424	1500
Quarter 9	40.3	96.7	64.4	2790	6980	338	1400
Quarter 10	41.9	102	75.2	2740	7520	392	1500
Quarter 11	41	97	97	2800	7500	380	1400
Quarter 12	59	86	75	2600	7500	390	1400
Quarter 13	44	130	86	2600	7500	400	1300
Quarter 14	43	97	75	2600	7000	360	1300
Quarter 15	41	100	97	2500	7500	360	1300
Quarter 16	50	70	59	2100	6400	310	1200
Quarter 17	40	100	75	2200	6400	300	1200
Mean (M)							
	45.9	102.8	79.3	2795.5	7510.4	366.9	1388.2
Standard Deviation (SD)[n-1]							
	8.8	17.7	14.3	401.3	638.5	51.5	110.6
Lower Limit (95%=M-2xSD)							
	28.3	67.4	50.7	1992.8	6233.4	263.8	1167.1
Upper Limit (95%=M+2xSD)							
	63.5	138.2	107.9	3598.2	8787.4	470.0	1609.4
Lower Limit (99%=M-3xSD)							
				1591.5		212.3	
Upper Limit (99%=M+3xSD)							
				3999.6		521.6	

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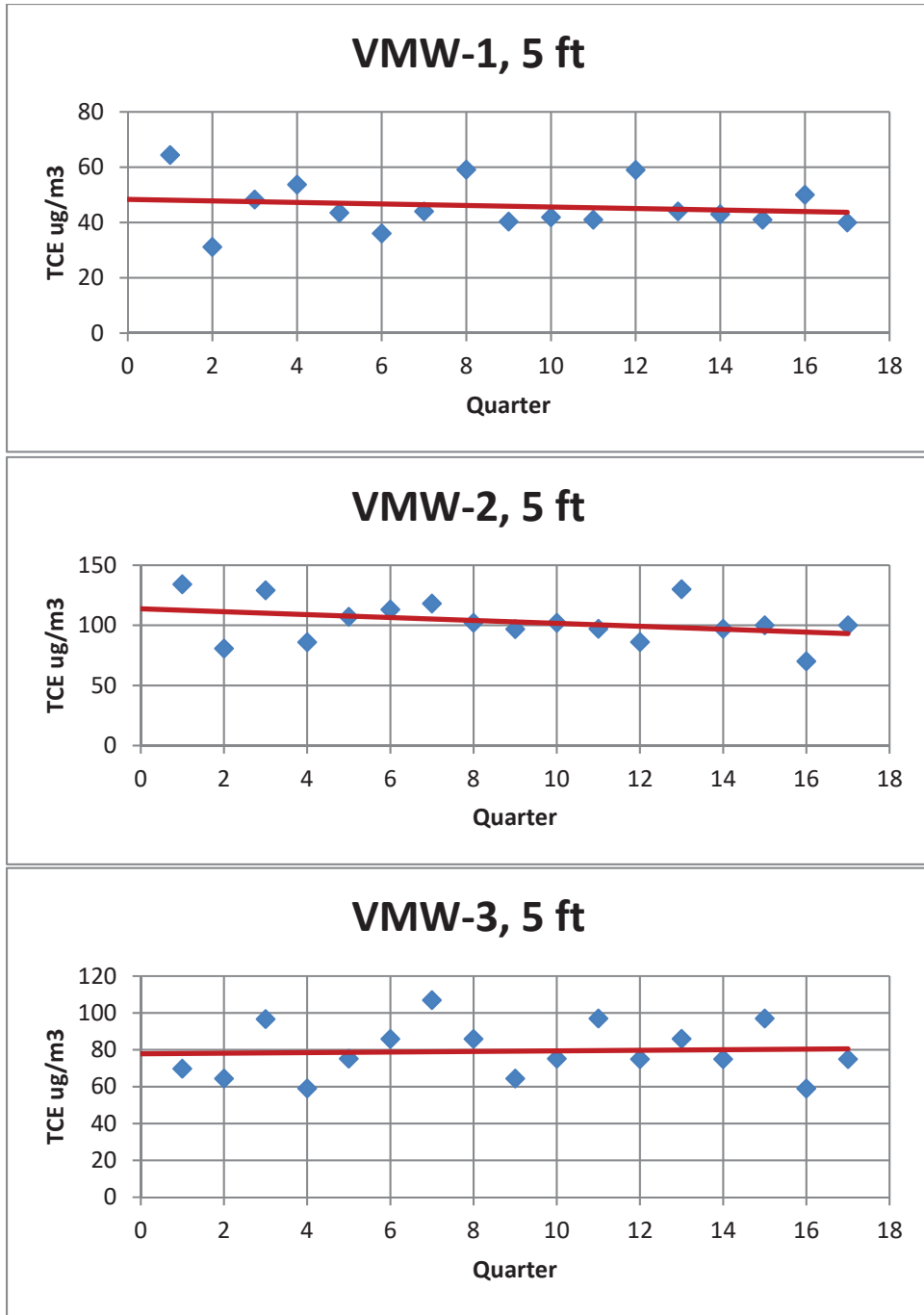


Figure 2. Data Plots for TA-63 TWF Soil Vapor Monitoring Wells Inside of the Permitted Unit

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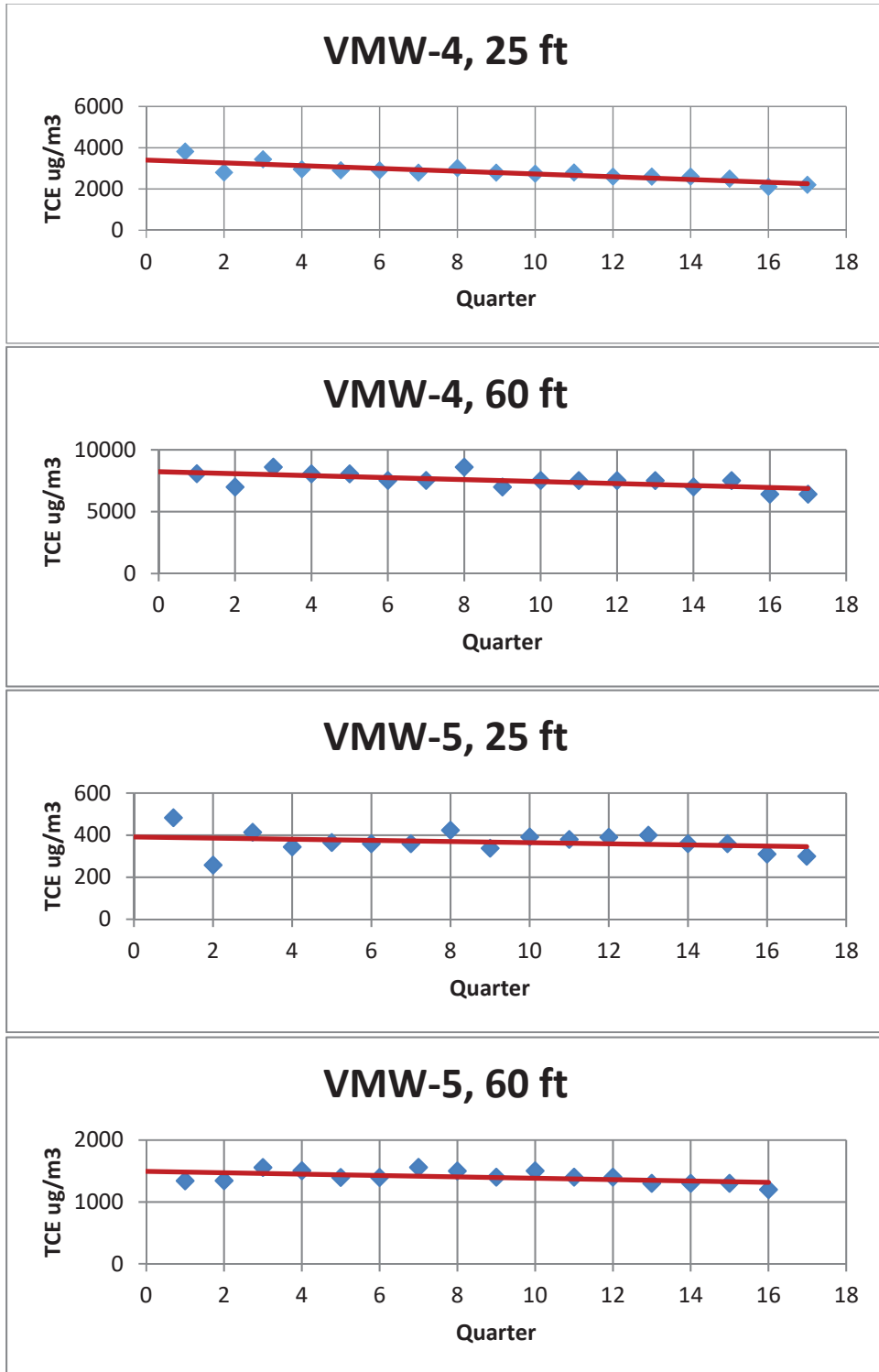


Figure 3. Data Plots for TA-63 TWF Soil Vapor Monitoring Wells Outside of the Permitted Unit

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SAMPLE COLLECTION LOGS

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SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235818

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1232	ok	MEDIA:	BH	
SWMU/AOC:	UA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2009		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:	YES / NO / NA	

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 33549

FIELD PARAMETERS:

Sample Time 1232 HH:MM

CH₄ = 0% CO₂ = 13,200 O₂ = 19.7 VOC = 0.1

COLLECTED BY (PRINT): M. Sando

RELINQUISHED BY (Printed Name) <u>Daniel Sando</u> (Signature) <u>[Signature]</u>	Date/Time <u>11/3/21</u> <u>1346</u>	RECEIVED BY (Printed Name) <u>S. Sherwood</u> (Signature) <u>[Signature]</u>	Date/Time <u>11/3/21</u> <u>13:46</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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235819

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1251	ok	MEDIA:	BH	
SWMU/AOC:	WA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2010		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft		EXCAVATED:		YES / NO / NA

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 06132

FIELD PARAMETERS:

Sample Time 1251 HH:MM

CH₄ = 0% CO₂ = 7,800 ppm O₂ = 20.6% VOC = 0 ppm

COLLECTED BY (PRINT): K. Reid M. Stend

RELINQUISHED BY (Printed Name) Daniel J. Crumb (Signature) <i>[Signature]</i>	Date/Time 11/3/21 1346	RECEIVED BY (Printed Name) J. Sherwood (Signature) <i>[Signature]</i>	Date/Time 11/3/21 1346
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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235820

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	dk	FIELD MATRIX:	GAS	dk
TIME COLLECTED (HH:MM):	1311	dk	MEDIA:	BH	
SWMU/AOC:	wt		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2011		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	6.5 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	7.5 ft	↓	EXCAVATED:	YES / NO / NA	

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # of 0383

FIELD PARAMETERS:

Sample Time 1311 HH:MM

CH₄ = 0% CO₂ = 5.600 ppm O₂ = 20.9% VOC = 0.0 ppm

COLLECTED BY (PRINT): ^{by 11/3/21} D. M. Shando

RELINQUISHED BY (Printed Name) <u>Daniel Jerant</u> (Signature) <u>[Signature]</u>	Date/Time <u>11/3/21</u> <u>1346</u>	RECEIVED BY <u>S. Shorwood</u> (Printed Name) <u>[Signature]</u> (Signature) <u>[Signature]</u>	Date/Time <u>11/3/21</u> <u>13:46</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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235821

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	11/3/21 to 0956	OK	MEDIA:	BH	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25 ft		EXCAVATED:		YES / NO / NA

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 00897

FIELD PARAMETERS:

Sample Time 0956 HH:MM

CH₄ = 0% CO₂ = 12,400 ppm O₂ = 19.9% VOC = 0.0

COLLECTED BY (PRINT): F. Reed M. Sierda

RELINQUISHED BY (Printed Name) <i>David Jacobo</i> (Signature)	Date/Time 11/3/21 1346	RECEIVED BY (Printed Name) <i>S. Sherwood</i> (Signature) <i>Sherwood</i>	Date/Time 11/3/21 13:46
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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235822

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	11/03/2021	ok	FIELD MATRIX:	GAS	ok
TIME COLLECTED (HH:MM):	1011	ok	MEDIA:	BH	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2012		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60 ft	↓	EXCAVATED:	YES / NO / NA	

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa # 7632

FIELD PARAMETERS:

Sample Time 1011 HH:MM

CH₄ = 0 % CO₂ = 14,800 ppm O₂ = 19.6 % VOC = 0.6 ppm

COLLECTED BY (PRINT): K Row, M. Shando

RELINQUISHED BY (Printed Name) <u>Denal Jacob</u> (Signature)	Date/Time <u>11/3/21</u> <u>1346</u>	RECEIVED BY <u>S. Shewood</u> (Printed Name) <u>Sher Shewood</u> (Signature)	Date/Time <u>11/3/21</u> <u>13:46</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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235823

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1038	ck	MEDIA:	BH	
SWMU/AOC:	WA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	24 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	25 ft		EXCAVATED:		YES / NO / NA

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

SAMPLE COMMENTS: Port 1

LOCATION COMMENTS: Summa # 34366

FIELD PARAMETERS:

Sample Time 1038 HH:MM

CH₄ = 0% CO₂ = 39,400 ppm O₂ = 17.8% VOC = 0.0 pp

COLLECTED BY (PRINT): K Reid M. Shendo

RELINQUISHED BY (Printed Name) Daniel Jaramila (Signature) <i>DJR</i>	Date/Time 11/3/21 1346	RECEIVED BY (Printed Name) M. Shendo (Signature) <i>M. Shendo</i>	Date/Time 11/3/21 13:46
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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: .CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235824

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1057	ck	MEDIA:	BH	
SWMU/AOC:	NA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	63-2013		FIELD PREP:	NA	
LOCATION TYPE:	AMS		FIELD QC TYPE:	REG	
TOP DEPTH:	59 ft		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	60 ft		EXCAVATED:		YES / NO / <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 #N1879

FIELD PARAMETERS:

Sample Time 1057 HH:MM

CH₄ = 0 % CO₂ = 24,200 ppm O₂ = 19.0 % MOC = 0.2 ppm

COLLECTED BY (PRINT): K. Reid H. Shendo

RELINQUISHED BY (Printed Name) Daniel Sorcumb (Signature) <i>[Signature]</i>	Date/Time 11/3/21 1346	RECEIVED BY (Printed Name) S. Sherwood (Signature) <i>[Signature]</i>	Date/Time 11/3/21 13:46
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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045

EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235825

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	11/03/2021	ck	FIELD MATRIX:	GAS	ck
TIME COLLECTED (HH:MM):	1058	ck	MEDIA:	BH	
SWMU/AOC:	UA		SAMPLE TECH CODE:	VOST	
LOCATION ID:	UNK		FIELD PREP:	NA	
LOCATION TYPE:	BHover10ft		FIELD QC TYPE:	FD	
TOP DEPTH:	ck		SAMPLE USAGE:	QC	
BOTTOM DEPTH:			EXCAVATED:		YES / NO NA

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

SAMPLE COMMENTS: Port 2

LOCATION COMMENTS: Summa #9553

FIELD PARAMETERS:

Sample Time 1058 HH:MM

CH₄ = 0 % CO₂ = 24,200 pp1 O₂ = 19.0 % VOC = 0.2 pp2

COLLECTED BY (PRINT): M. Stando

RELINQUISHED BY (Printed Name) Daniel Jaramila (Signature) <i>[Signature]</i>	Date/Time 11/3/21 1346	RECEIVED BY (Printed Name) J. Sherwood (Signature) <i>[Signature]</i>	Date/Time 11/3/21 13:46
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

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 14045 EVENT NAME: CY 2021 - 4th Qtr. Poregas Sampling - TA-63 - TWF - November

SAMPLE ID: TWF63-22-235826

WORK ORDER:

	<u>AS PLANNED</u>	<u>AS COLLECTED</u>		<u>AS PLANNED</u>	<u>AS COLLECTED</u>
Date Collected (MM/DD/YYYY):	11/03/2021	OK	FIELD MATRIX:	GAS	OK
TIME COLLECTED (HH:MM):	1135	OK	MEDIA:	BH	/
SWMU/AOC:	1A	/	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 <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: QC Sample of TWF63-22-235824

LOCATION COMMENTS: Summa # 96106

FIELD PARAMETERS:
 Sample Time 1135 HH:MM

COLLECTED BY (PRINT): M. Sheward

RELINQUISHED BY (Printed Name) <u>Daniel Jaramb</u> (Signature) <u>[Signature]</u>	Date/Time 11/3/21 1346	RECEIVED BY (Printed Name) <u>J. Sheward</u> (Signature) <u>[Signature]</u>	Date/Time 11/3/21 13:46
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