EMID-701220

**DEPARTMENT OF ENERGY**
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

EMLA-2021-0140-02-001

February 12, 2021

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

Subject: Submittal of the Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, Revision 1

Dear Mr. Pierard:

Enclosed please find two hard copies with electronic files of the "Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, Revision 1." Enclosure 1 includes an electronic copy of a redline strikeout version of the report that incorporates all changes made in response to the New Mexico Environment Department's (NMED's) comments dated September 9, 2020. Responses to NMED's comments (Enclosure 2) were submitted on November 10, 2020, and a revised version was submitted on December 2, 2020. Responses to comments were accepted by NMED on December 2, 2020.

If you have any questions, please contact David Diehl at (505) 551-2496 (david.diehl@em-la.doe.gov) or Cheryl Rodriguez at (505) 414-0450 (cheryl.rodriguez@em.doe.gov).

Sincerely,

Arturo Q. Duran

Digitally signed by Arturo Q. Duran
Date: 2021.02.04 12:24:28 -07'00'

Arturo Q. Duran
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosure(s):

1. Two hard copies with electronic files (including a redline strikeout version) – Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, Revision 1 (EM2021-0041)
2. Two hard copies with electronic files – Revised Response to the Notice of Disapproval, Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, August 2020, Los Alamos National Laboratory, EPA ID #NM0890010515, LANL-20-048, Dated September 9, 2020 (EM2020-0668)

CC (letter with hard-copy enclosure[s]):
John Hopkins, N3B
Cheryl Rodriguez, EM-LA

CC (letter with CD/DVD enclosure[s]):
Laurie King, EPA Region 6, Dallas, TX
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
Chris Catechis, NMED-DOE-OB
Steve Yanicak, NMED-DOE-OB
emla.docs@em.doe.gov
n3brecords@em-la.doe.gov
Public Reading Room (EPRR)
PRS website

CC (letter emailed without enclosure[s]):
Jennifer Payne, LANL
William Alexander, N3B
Emily Day, N3B
David Diehl, N3B
Michael Erickson, N3B
Erich Evered, N3B
Jeff Holland, N3B
Kim Lebak, N3B
Joseph Legare, N3B
Dana Lindsay, N3B
Pamela Maestas, N3B
Christian Maupin, N3B
Glenn Morgan, N3B
Joseph Murdock, N3B
Joseph Sena, N3B
Troy Thomson, N3B
Peter Maggiore, NA-LA
M. Lee Bishop, EM-LA
Stephen Hoffman, EM-LA
Kirk D. Lachman, EM-LA
David Nickless, EM-LA

**Revised Response to the Notice of Disapproval,**
**Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C,**
**Solid Waste Management Unit 50-009, at Technical Area 50, August 2020,**
**Los Alamos National Laboratory, EPA ID #NM0890010515, LANL-20-048,**
**Dated September 9, 2020**

## INTRODUCTION

To facilitate review of this response, the New Mexico Environment Department's (NMED's) comments are included verbatim. The U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office responses follow each NMED comment.

## SPECIFIC COMMENTS

**NMED Comment**

1. ***Section 3.1 Tier I Groundwater Screening, Page 5:***

   ***DOE Statement:*** *"Table 3.1-1 presents the calculated concentrations of contaminants in soil vapor corresponding to groundwater SLs (hereafter, Tier I SLs) for the Tier I screening. Table 3.1-2 presents the results of the Tier I screening for the first round of 2019 pore gas data. Two VOCs were identified that exceeded the Tier I SL. Table 3.1-3 presents the results of the Tier I screening for the second round of pore gas data. Four VOCs were identified that exceeded the Tier I SLs."*

   a. ***NMED Comment:*** *Please correct Table 3.1-1 to show the correct Tier I Pore-gas Concentrations Corresponding to Groundwater Standard for acetone, cis 1,2-dichloroethene and trans 1,2-dichloroethene. Acetone is listed with a Tier I SL (screening Level) of 20,300 µg/m$^3$ instead of 19,700 µg/m$^3$ and dichlororethene[trans-1,2-] is listed with a Tier I SL of 16,700 µg/m$^3$ instead of 38,300 µg/m$^3$. Also correct the Groundwater Screening Level for dichloroethene[cis-l,2-], which is listed twice on the table. Please list dichloroethene[cis-l,2-] only once with the correct New Mexico Water Quality Control Commission (NMWQCC) standard (70 µg/L), Tier I SL (11,700 µg/m$^3$) and Henry's constant (0.167).*

      ***NMED Follow-up Comment****: The Tier I SL for acetone provided in Table 3.1-1 for the Soil Vapor PMR at MDA-C (20,300 ug/L$^3$) conflicts with the value (19,700 ug/m$^3$) provided in Table 3.1-1 of the May 2020 Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area L. The SL for acetone should be consistent between the two reports. Explain why the SL for acetone differs between the two reports. If DOE maintains the above position, provide the step-by-step calculation including the values for partial pressure and molecular weight that were used to derive the Tier I SL for acetone provided in Table 3.1-1 of the MDA-C Soil Vapor PMR. If they are still not the same, explain why it differs from the value calculated in the MDA-L Soil Vapor PMR.*

      *There is a similar discrepancy for trans 1,2 DCE between the two reports.*

   b. ***NMED Comment:*** *NMED Comment: Please correct Table 3.1-2 to show the correct Tier I Screening Level Calculated Concentrations in Pore Gas Corresponding to Groundwater Standard for dichloro-1,1,2,2-tetrafluoroethane [1,2-]. Tables 3.1-1, 3.1-3 and 3.2-2 indicate this to be "na" for this compound.*

**DOE Response**

1.a. The vapor screening level (SL) is calculated from the dimensionless Henry's Law constant and the groundwater SL using Equation 3.1.2 in the periodic monitoring reports (PMRs). The difference between the vapor SL for acetone reported in the Material Disposal Area (MDA) L PMR (19,700 µg/m$^3$) and the one reported in the MDA C PMR (20,300 µg/m$^3$) is due to a difference in the dimensionless Henry's Law constants used in the calculations. The text in section 3.1 of the PMRs and the footnote in Table 3.1-1 of the PMRs indicates the source of the dimensionless Henry's Law constants as either the New Mexico Environment Department (NMED) soil screening guidance document (NMED 2019, 700550) or the U.S. Environmental Protection Agency (EPA) regional screening tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables). The dimensionless Henry's Law constant used in the MDA L PMR (0.0014) is the value from the EPA regional screening tables, whereas the constant used in the MDA C PMR (0.00144) is from the NMED soil screening guidance. Because the vapor SLs are calculated using reported values for dimensionless Henry's Law constants from the referenced sources, it is not necessary to calculate the constants using partial pressure or molecular weight. The vapor SL for acetone reported in the MDA C PMR was calculated from Equation 3.1.2 as follows:

$SL_{pgl} = H' \times SL_{gw} \times 1000 = 0.00144 \times 14{,}100\ \mu g/L \times 1000\ L/m^3 = 20{,}300\ \mu g/m^3$

The difference between the vapor SLs for trans-1,2-dichloroethene reported in the MDA L PMR and MDA C PMR is due to the same reason. The MDA L PMR used the dimensionless Henry's Law constant from the EPA regional SLs (0.383) whereas the MDA C PMR used the dimensionless Henry's Law constant from the NMED soil screening guidance (0.167). To ensure consistency in sources of dimensionless Henry's Law constants used in future PMRs, N3B will use the NMED soil screening guidance as the default source and the EPA regional tables will be used if there is not a value reported in the NMED guidance.

~~1.a. The dimensionless Henry's law constant (0.00144) and groundwater screening level (14,100 µg/L) for acetone are the values contained in the June 2019 NMED soil screening guidance (NMED 2019, 700550). These values result in a Tier I screening level (SL) of 20,300 µg/m$^3$. No revision to the Tier I SL for acetone is needed.~~

~~The dimensionless Henry's law constant (0.167) for trans-1,2-dichloroethene is the value contained in the June 2019 NMED soil screening guidance (NMED 2019, 700550) and the groundwater screening level (100 µg/L) is the New Mexico Water Quality Control Commission standard. These values result in a Tier I SL of 16,700 µg/m$^3$. No revision to the Tier I SL for trans-1,2-dichloroethene is needed.~~

~~The dimensionless Henry's law constant and groundwater screening levels for cis-1,2-dichloroethene, and the resulting Tier I SL, will be corrected in Table 3.1-1. The second occurrence of cis-1,2-dichloroethene will be deleted from Table 3.1-1.~~

1.b. Dichloro-1,1,2,2-tetrafluoroethane[1,2-] is not listed in the NMED soil screening guidance (NMED 2019, 700550) or U.S. Environmental Protection Agency (EPA) regional screening tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables). Therefore, data are not available with which to calculate a Tier I SL. The value for dichloro-1,1,2,2-tetrafluoroethane[1,2-] in Table 3.1-2 will be revised to "na."

**NMED Comment**

***2. Section 5.1 2019 Pore-Gas Results, Page 6.***

***DOE Statement:*** *"VOC analytical data from the second and first sampling rounds, respectively, are presented in Tables 5.1-1 and 5.1-2."*

***a. NMED Comment:*** *Please correct Table 5.1-1 to show only one Groundwater Tier I SL for propanol [2-]. The Tier 1 SL for propanol [2-] is listed with both "na" and 136 µg/m$^3$ in this table. Tables 3.1-1, 3.1-2 and 3.1-3 indicate the Tier I SL for this compound is 136 µg/m$^3$. Please review and correct as needed, all tables for the listed screening levels, standards, and detections for each compound in the revised report.*

***b. NMED Comment:*** *Please correct Table 5.1-2 with respect to the trichloroethene detections for Field Sample ID MD50-19-166043 for borehole 50-24822 at the 142-foot depth; for Sample ID MD50-19-166099 for borehole 50-603472 at the 146-foot depth; and for Sample ID MD50-19-166058 for borehole 50-603063 at the 228-foot depth. Intellus indicates these detections should be 20,407.9 µg/m$^3$, 10,741 µg/m$^3$ and 22,556 µg/m$^3$, respectively.*

**DOE Response**

2.a. The Tier I SLs presented in Tables 5.1-1 and 5.1-2 were reviewed and will be revised, as needed. In Table 5.1-1, the Tier I SL for 2-propanol presented as "na" will be revised to "136 µg/m$^3$."

2.b. Table 5.1-2 will be revised to correct the results for trichloroethene as indicated in NMED's comment.

**NMED Comment**

***3. Section 5.3 Evaluation of VOC Pore-Gas Data as Related to Hypothetical Groundwater Contamination, Page 7***

***DOE Statement:*** *"Table 3.1-2 shows the two VOCs that exceeded Tier I SLs in the first sampling round, and Table 3.1-3 shows the four VOCs that exceeded Tier I SLs in the second sampling round. These VOCs are methylene chloride, trichloroethane[1,1,2-] and TCE. Because some groundwater SLs were exceeded, further screening was performed using the concentrations from the deepest pore-gas sample (i.e., the sample collected closest to the regional aquifer). The deepest sample, in which all three VOCs were detected, was collected from borehole location 50-613184 at a depth interval of 664.5 ft. The results of this screening show that all concentrations from the deep sample resulted in concentrations below the Tier I groundwater SL."*

***a. NMED Comment:*** *Table 3.1-3 indicates 2-propanol was detected above the Tier I SL. Please include 2-propanol in the second sentence.*

***b. NMED Comment:*** *Section IV in Appendix E of the 2016 Compliance Order on Consent (CO) provides NMED's general expectations and guidance for the presentation of subsurface vapor monitoring analytical data in Periodic Monitoring Reports (PMRs). Section IV)6 of the CO requires map and cross-sectional views in figures that show the analytical data of each contaminant detected in excess of the Tier I SLs during the current sampling events. The Report includes Figures D-1.0-2 and D-5.0-1 to illustrate the volatile organic compound (VOC) plume in map and cross-sectional view, however, these figures are from the 2012 CME and represent modeled TCE distributions from 2011 data. The Report does not contain figures that depict the January/February 2019 (first sampling round) and 2020 (second sampling round) results. In the*

*revised report and subsequent PMRs, include map and cross-sectional figures of the distributions of individual contaminant (not total VOCs) concentrations detected above the Tier I SL at more than one location. At a minimum, isoconcentration maps and cross-sections like Figures D-3.0-1 through D-3.0-8 from the 2012 CME must be included in the revised report to depict the TCE distributions in the various strata detected during each recent sampling round.*

**DOE Response**

3.a. Section 5.3 will be revised to include 2-propanol with the list of VOCs exceeding Tier I SLs.

3.b. The report will be updated to include isoconcentration maps and cross-section Figures D-3.0-1 through D-3.0-8. These figures will be updated to depict the trichloroethylene (TCE) distributions from both recent sampling rounds (2019 results).

**NMED Comment**

***4. Section D-1.0 Introduction, Appendix D, Page D-1***

***DOE Statement:*** *"All plots showing TCE concentration versus depth also include a red dashed vertical line that is the Tier I groundwater screening level of 2000 µg/m$^3$. This same screening level for TCE is shown as a horizontal red dashed line on all histograms."*

***NMED Comment:*** *The Tier I SL for TCE as provided on Tables 3.1-1, 3.1-2, 3.1-3, 5.1-1, 5.1-2 and 5.2-1 and as calculated in Section 3.0 using Henry's Law is 2020 µg/m$^3$ not 2000 µg/m$^3$. In the revision, please update all the histograms, time plots and notes in Figures D-2.0-1 through D-2.1-16, Figures D-3.0-1 through D-3.0-25, and Figures 4.0-1 through 4.0-18 to reflect the correct Tier I SL or provide an explanation why 2000 µg/m$^3$ is used instead of the calculated value. There are numerous inconsistencies of various Tier I SLs throughout the Report (see Comments Nos. 1 and 2) that make the Report difficult to follow. In the Report revision and all subsequent PMRs, please be consistent with each constituent Tier I SL throughout the Report and among all tables and figures. Also, in the figures requested in Comment No. 3, use the same Tier I SL as is used throughout the revised Report.*

**DOE Response**

4. The Tier I SLs referenced throughout the report were reviewed for consistency with Table 3.1-1 and will be revised as needed.

The Tier I SL for TCE referenced in section D-1.0 will be revised to 2020 µg/m$^3$ for consistency with Table 3.1-1. The text at the end of the second paragraph of section D-1.0 will be revised as follows: "All plots showing trichloroethylene (TCE) concentration also include a dashed red line that is the Tier I groundwater screening level of 2020 µg/m$^3$. On the TCE versus depth plots, this is a vertical dashed red line; on the histograms of TCE and total VOC, this is a horizontal red dashed line." Revised text in section D-2.2 (to be added, see DOE Response 5) uses the correct Tier 1 screening value for TCE: "Values of TCE in the deepest port are well below the Tier I screening level of 2020 µg/m$^3$."

All TCE versus depth plots (e.g., Figure D-2.0-1) and histograms of TCE and total VOCs (e.g., Figure D-2.0-2) will be revised to remove text describing the red dashed line.

The following figures will show the 2020 µg/m$^3$ redline:

- Figures D-2.0-1 through D-2.0-16

- Figures D-3.0-1 through D-3.0-25
- Figures D-4.-0-1 through D-4.0-18

**NMED Comment**

***5. Section D-2.0 Plume Core Borehole Data, Appendix D, Page D-2***

***NMED Comment:*** *In the Report revision, include a narrative for Boreholes 50-603470, 50-603471, and 50-613183, or provide an explanation in the narrative why these borings are not discussed.*

**DOE Response**

5. The following text will be added to Section D-2.0, Appendix D.

**D-2.2 Borehole 50-603470**

Borehole 50-603470, located at the southeast corner of Pit 5 (Figure D-1.0-1), is in the core of the VOC plume, with some of the highest concentrations found at the site. Figure D-2.0-7 shows that concentrations of TCE reach a maximum in the borehole between 200–300 ft bgs. At this depth range, concentrations have dropped from over 80,000 µg/m$^3$ in 2011 to approximately 50,000 µg/m$^3$ in the most recent sampling rounds. Total VOCs in this borehole (Figures D-2.0-8 to 2.0-10) show a decrease with time at both 83 and 278 ft bgs, while at 650 ft bgs there is a tentative trend towards higher values of total VOCs. At this deepest port, the ratios of TCE/total VOCs are quite low through time, consistent with deep values throughout the plume and also consistent with ratios found in borehole 50-603061. Values of TCE in the deepest port are well below the Tier I SL of 2020 µg/m$^3$.

**D-2.3 Boreholes 50-603471 and 50-613183**

Borehole 50-603471 is centrally located in the core of the plume between Pit 4 and Pit 5 (Figure D-1.0-1). This borehole also shows the highest concentrations between 200–300 ft bgs, with a value of TCE over 100,000 µg/m$^3$ in 2011 (Figure D-2.0-11). Subsequent measurements show a trend toward lower peak values of TCE, with the latest measurements on order of 50,000 µg/m$^3$ TCE. Total VOCs in the high-concentration region (288 ft bgs) of this borehole are also trending downward through time, with high ratios of TCE/total VOCs that are consistent with the bulk of observations at all but the deepest depths and borehole 603061 (Figure D-2.0-12). At the deepest port (450 ft bgs), there is a clear trend toward both lower TCE and total VOC concentrations with time (Figure D-2.0-13). Borehole 50-613183 is located within 10 ft of borehole 50-603471 and serves as an extension to greater depths. Concentrations of TCE at borehole 50-613183 (Figure D-2.0-14) appear to be nearly stable through time at 642.5 ft bgs, while increases in concentrations are seen at 550 ft bgs. Ratios of TCE/total VOCs are lower in both ports of borehole 50-613183, with very little TCE present in the deepest 642.5-ft port (Figures D-2.0-15 and D-2.0-16).

**NMED Comment**

***6. Section D-3.4 Borehole 50-603467, Appendix D, Page D-3***

***DOE Statement:*** *"January 2020 data look suspicious as they are not following previous data trends."*

***NMED Comment:*** *In the Report revision, please include a narrative that provides evidence that the data is suspect, such as issues identified by the data validation (Appendix C) or the reasons provided in Section D-5.0 on page D-5 that explain a previous anomalous dataset at borehole 50-24822 (Figure D-3.0-1). As is, this statement is purely speculative. A statement that the data is anomalous*

*with respect to previous trends would suffice if there are no known reasons for the change in the time series concentration with depth plots.*

**DOE Response**

6. The text will be revised accordingly to remove the word suspicious. The text will read as follows:

   **D-3.4 Borehole 50-603467**

   Borehole 50-603467 shows concentration reduction with time. January 2020 data are anomalous because they are not following previous data trends and there is no known reason for the changes. Borehole 50-603467 will continue to be monitored semiannually and results will be reported in the annual periodic report.

**NMED Comment**

***7. Section D-5.0 Plume Trends, Appendix D, Page D-5***

***DOE Statement:*** *"Changes in plume concentrations through time from 2011 to 2020 support a conceptual model of VOC migration from higher concentration areas directly under the source region towards lower concentration regions around the edge of the plume both laterally and vertically. These regions have been circled in red in Figure 0-5.0-1.*

*In Figure 0-5.0-1, the deepest ports {450-650 ft bgs) show very low TCE as a percent of the total VOC."*

***NMED Comment:*** *Figure D-S.0-1 is from the 2012 CME. An updated figure should be included to provide a visual comparison with the figure from the 2012 CME. See Comment No. 3.*

**DOE Response**

7. A new figure will be generated with the most recent TCE data and compared with the existing figure that was pulled from the 2012 corrective measures evaluation (CME).

## REFERENCE

NMED (New Mexico Environment Department), June 19, 2019. “Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments,” February 2019 (Revision 2, 6/19/19), Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2019, 700550)

February 2021
EM2021-0041

# Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, Revision 1

N3B Los Alamos

Newport News Nuclear BWXT-Los Alamos, LLC (N3B), under the U.S. Department of Energy Office of Environmental Management Contract No. 89303318CEM000007 (the Los Alamos Legacy Cleanup Contract), has prepared this document pursuant to the Compliance Order on Consent, signed June 24, 2016. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. The U.S. government has rights to use, reproduce, and distribute this document. The public may copy and use this document without charge, provided that this notice and any statement of authorship are reproduced on all copies.

EM2021-0041

# Periodic Monitoring Report for 2019 Vapor-Sampling Activities at Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50, Revision 1

February 2021

Responsible program director:

| Printed Name | Signature | Title | Organization | Date |
|---|---|---|---|---|
| Michael O. Erickson | | Program Director | RCRA Remediation Program | 2/3/21 |

Responsible N3B representative:

| Printed Name | Signature | Title | Organization | Date |
|---|---|---|---|---|
| Kim Lebak | | Program Manager | N3B Environmental Remediation Program | 2/3/21 |

Responsible DOE EM-LA representative:

| Printed Name | Signature | Title | Organization | Date |
|---|---|---|---|---|
| Arturo Q. Duran | M Lee Bishop for Digitally signed by M Lee Bishop for Date: 2021.02.12 11:56:26 -07'00' | Compliance and Permitting Manager | Office of Quality and Regulatory Compliance | |

## EXECUTIVE SUMMARY

This periodic monitoring report (PMR) summarizes vapor-monitoring activities conducted for calendar year 2019 at Material Disposal Area (MDA) C, Solid Waste Management Unit 50-009, at Technical Area 50, at Los Alamos National Laboratory. Submittal of this PMR fulfills the New Mexico Environment Department requirement that vapor monitoring be conducted semiannually from 80 sampling ports in 18 boreholes at MDA C. The objectives of the current vapor monitoring at MDA C are to monitor for potential plume expansion and for potential new releases.

Vapor monitoring in 2019 included collecting 80 vapor samples from 80 sample ports within 18 boreholes in each of two sampling rounds. Vapor samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and tritium.

Validated analytical results demonstrated the presence of 27 VOCs detected in subsurface pore gas. The VOC screening evaluation identified 2 VOCs in the first round and 4 VOCs in the second round in MDA C pore gas at concentrations exceeding Tier I screening levels (SLs), which are based on groundwater SLs.

Data trends in the MDA C VOC plume for trichloroethene (TCE), also known as trichloroethylene, were evaluated from vapor-monitoring activities from 2012 through 2019. VOC trends for TCE from 2012 through 2019 show that VOC concentrations at MDA C are consistent with a diffusive plume. Concentrations are easing slowly at the edges of the plume, both laterally and at depth. Concentrations in the center of the plume peak at depths of approximately 200–250 ft below ground surface, well below possible source areas, and appear to be either stable or decreasing slowly with time. Concentrations in the source area show no signs of significant continued releases of VOCs.

Vapor monitoring in the first round of sampling, conducted early in 2019, included collecting 80 vapor samples for VOC analysis, along with 8 field duplicate samples and 8 field blank samples from all 80 sample ports at the 18 wells. Vapor monitoring in the second round of sampling, conducted in early January 2020, included collecting 80 vapor samples for VOC analysis, along with 8 field duplicates and 8 field blanks, and 80 tritium samples, along with 11 field duplicates and 7 field blanks.

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## 1.0 INTRODUCTION

This periodic monitoring report (PMR) presents the results of vapor-monitoring activities conducted for calendar year 2019 at Material Disposal Area (MDA) C, Solid Waste Management Unit (SWMU) 50-009, in Technical Area 50 (TA-50), at Los Alamos National Laboratory (LANL or the Laboratory). Submittal of this PMR fulfills the New Mexico Environment Department (NMED) requirement that vapor monitoring be conducted semiannually from 80 sampling ports in 18 boreholes at MDA C and include sampling for volatile organic compounds (VOCs) and tritium (NMED 2011, 208797).

The objectives of the current vapor monitoring at MDA C are to (1) monitor for potential plume expansion and potential new releases and (2) collect additional vapor monitoring data to support the updated corrective measures evaluation (CME) report that is scheduled to be completed in early 2021.

This report discusses the results obtained during the two vapor monitoring rounds. This report also lists the VOC and tritium concentrations from vapor monitoring activities at MDA C from 2012 thru 2017 that have not been previously reported in a PMR. All pore-gas samples were submitted for off-site analysis of VOCs and tritium.

In order to evaluate changes in plume concentrations over time, the trend in concentrations of both total VOCs and trichloroethene (TCE), also known as trichloroethylene, are analyzed in the analytical data results section of this report and the VOC plume trend analysis appendix. The selection of TCE for the trend analysis was based on the information reported in the fiscal year (FY) 2012 MDA C CME report (LANL 2012, 222830). TCE was the most frequently detected VOC and was detected in 98% of the VOC vapor samples collected at MDA C. TCE was also the most frequently detected VOC above the Tier I groundwater screening levels (SLs), with 71% of all TCE sampling results exceeding the Tier I SLs.

No regulatory criteria exist for vapor-phase contaminants; therefore, this report presents the results of a screening evaluation of the pore-gas VOC data. The maximum concentrations of VOCs in pore gas are used in a Henry's Law calculation to determine the VOC concentration in groundwater for the hypothetical case of the VOC pore gas being in contact with the groundwater.

Section IX of the Consent Order describes the role of data screening in the corrective action process. Screening values are used to identify the *potential* for unacceptable risk resulting from the presence of contaminants in groundwater. Screening values for evaluating pore-gas monitoring data include New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), NMED screening levels for tap water, and EPA regional screening levels for tap water. Additional risk evaluation is required to determine the potential need for cleanup (corrective action) if results indicate that contaminants are present at concentrations above screening values.

Tritium samples were collected during both 2019 sampling rounds and from 2012 through 2017. Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to NMED in accordance with U.S. Department of Energy policy.

This introductory section of the report includes a description of the site location. Section 2 describes the scope of the vapor-monitoring activities, and section 3 addresses regulatory criteria. Section 4 presents field screening results, and section 5 presents analytical data results. Section 6 summarizes the information presented in this report, and section 7 includes references and map data sources.

The appendixes include acronyms, a metric conversion table, and definitions of data qualifiers (Appendix A); field methods (Appendix B); the analytical data management and evaluation process (Appendix C); a VOC plume trend analysis (Appendix D); and analytical suites and results, analytical reports, and sample collection logs (Appendix E on DVD included with this document).

### 1.1 Background

MDA C, also known as SWMU 50-009, is located within TA-50 at the head of Ten Site Canyon. TA-50 is bounded on the north by Effluent and Mortandad Canyons, on the east by the upper reaches of Ten Site Canyon, on the south by Twomile Canyon, and on the west by TA-55 (Figure 1.1-1).

MDA C is an inactive 11.8-acre landfill consisting of 6 solid waste disposal pits, a chemical disposal pit, and 108 shafts (Figure 1.1-2). The seven pits range in depth from 12 ft to 25 ft below the original ground surface. The shafts range in depth from 4 ft to 25 ft below the original ground surface. From 1948 to 1974 these pits and shafts received solid waste containing hazardous substances and radioactive waste. Descriptions of the waste are included in the CME report for MDA C (LANL 2012, 222830). Pits were filled with dirt as a temporary cover as the pits were being filled, and with crushed tuff upon decommissioning. The shafts were sealed by being filled first with crushed tuff, followed by concrete. All shafts except Shafts 98 through 107 were unlined.

Pore-gas monitoring boreholes located within MDA C have been used to characterize the nature and extent of the subsurface vapor plume at the site since 2000. Figure 1.1-3 shows the pore-gas monitoring boreholes at MDA C. VOC concentrations in the subsurface plume decrease with depth from the plume maximum at approximately 250 ft below ground surface (bgs) to borehole total depth.

## 2.0 SCOPE OF ACTIVITIES

The following pore-gas monitoring activities were completed at MDA C for calendar year 2019. The first round of sampling occurred in early 2019. Because of weather and contract delays, the second round of 2019 sampling occurred in January and February 2020. Table 2.0-1 lists the vapor-monitoring locations and their port depths, which correspond to sampling intervals for both sampling rounds. (For details of sampling protocols see “Sampling Subsurface Vapor,” N3B-SOP-ER-2008).

- Before sampling, boreholes were field screened using the MultiRAE Infrared (IR) photoionization detector to measure carbon dioxide ($CO_2$) concentration in ppm, percent oxygen (%$O_2$), and VOC concentrations in ppm. In the two sampling rounds, a total of 80 ports in 18 vapor-monitoring boreholes were field screened.
- Vapor monitoring in the first round of sampling, conducted early in 2019, included collecting 80 vapor samples for VOC analysis and 80 tritium samples, along with 8 field duplicate samples and 8 field blank samples from all 80 sample ports at the 18 wells. Vapor monitoring in the second round of sampling, conducted in early January 2020, included collecting 80 vapor samples for VOC analysis, along with 8 field duplicates and 8 field blanks, and 80 tritium samples, along with 11 field duplicates and 7 field blanks (Figure 1.1-3).
- After collection, samples were submitted to the Newport News Nuclear BWXT-Los Alamos, LLC (N3B) Sample Management Office for shipment to analytical laboratories per N3B-ER-SOP-10094, “Sample Receiving and Shipping by the Sample Management Office.” Vapor samples were submitted to off-site analytical laboratories in SUMMA canisters for VOC analysis using EPA Method TO-15 and in silica-gel columns for tritium analysis using EPA Method 906.

- All analytical data were subject to data validation reviews in accordance with N3B guidance and procedures. Field duplicate samples were collected at a minimum frequency of 1 for every 10 samples. The data validation process for reviews of MDA C pore-gas data is presented in Appendix C.

Waste generated from sampling activities was handled in accordance with the waste characterization strategy form for MDA C developed in accordance with N3B-ER-DIR-SOP-10021 R1, "Characterization and Management of Environmental Programs Waste."

Further discussion of the field methods used for pore-gas field screening and sample collection is presented in Appendix B. Field chain-of-custody (COC) forms and sample collection logs are provided in Appendix E (on DVD included with this document).

The pore-gas field-screening results are discussed in section 4, and the pore-gas analytical results are discussed in section 5. Any deviations from the NMED required vapor-monitoring plan are discussed in the following section.

### 2.1 Deviations

- The 600-ft sampling port in borehole 50-603470 is blocked and no samples were collected from it.
- In the first round of sampling, only 17 of the 80 tritium samples collected at least 5 grams of moisture. The other 63 samples collected less than 5 grams of moisture. Direction to submit samples with less than 5 grams of moisture was provided by the project team.
- In the second round of sampling, 8 tritium field blanks were planned for collection. Because of a sampling field-crew error, the valve on one tee fitting was left closed and the field blank was canceled, leaving only 7 field blanks collected.
- During the two sampling rounds, the depth of two unlabeled ports in borehole 50-603471 was unclear. The ports are known to be at 30 ft and 90 ft and both were sampled, but because the ports were not labeled, it is not possible to assign the data to a specific depth.
- In the second round of sampling, 17 SUMMA 1-L canister samples were received by the analytical laboratory on February 10, 2020. These samples arrived at the laboratory without COC forms. N3B subsequently provided the COC forms by email on February 13, 2020. The COC forms were signed as relinquished at the time of shipping, and all samples were present and accounted for. Because of the missing COC forms in the sample packages, the data associated with these 17 samples were rejected with the reason code V19. (The N3B project chemist identified quality deficiencies in the reported data that require further qualification.) All laboratory analysis quality control (QC) criteria were met and there is no concern about the overall quality of the data as reported. Because the samples arrived at the laboratory without proper COC forms, the data may not be defensible. However, all laboratory analysis QC criteria were met and there is no concern about the overall quality of the data as reported. The data from the 17 SUMMA canister samples are included in Appendix E (on DVD included with this document).

## 3.0 REGULATORY CRITERIA

VOCs present in wastes disposed of at MDA C may volatilize and be released into subsurface media (e.g., soil, tuff, fractured rock) as vapors. These vapor-phase contaminants may potentially be transported through the subsurface to the water table. Once in contact with the water table, vapor-phase VOCs might condense into the water. Thus vapor-phase contaminants are a potential source of groundwater

contamination. For MDA C, monitoring of subsurface vapors is being performed to evaluate the potential for groundwater contamination and, if necessary, to evaluate the need for corrective actions to prevent possible groundwater contamination.

Under the Compliance Order on Consent (Consent Order), results of environmental investigations and monitoring are compared with SLs, which are media-specific contaminant concentrations that indicate the potential for unacceptable risk. The Consent Order specifies that SLs for soil and groundwater developed by NMED be used to evaluate soil and groundwater contamination. Because the Consent Order does not identify SLs for subsurface vapor, N3B developed Tier I SLs to evaluate monitoring results.

The Tier I approach evaluates whether pore gas containing a VOC at the concentration detected in the vapor sample could contaminate groundwater above the groundwater SL. The approach assumes pore gas containing VOCs at the concentrations detected in the pore-gas sample is in hypothetical contact with the water table in sufficient quantity to condense into groundwater in accordance with Henry's law. If Tier I SLs are not exceeded, VOCs could not contaminate groundwater above cleanup levels even if the vapor plume were in direct contact with groundwater, and no further screening is necessary.

For the Tier I screen, the analysis uses Henry's law to identify the vapor-phase VOC concentration threshold that would have to be exceeded for a given VOC to potentially impact the groundwater at concentrations exceeding applicable groundwater standards.

The Tier I screening approach for VOCs is described in more detail below in section 3.1.

Section 3.14.3 of the LANL Hazardous Waste Facility Permit (the Permit) requires that a subsurface vapor monitoring system be installed in the vicinity of the buildings located within the Transuranic Waste Facility (TWF) to evaluate and report on a quarterly basis vapor-phase contaminants that may migrate from MDA C. The TWF subsurface vapor-monitoring network consists of five vapor-monitoring wells in or near the permitted storage unit as specified in Permit Section A.6.10. The TWF is located southeast of MDA C. LANL reported analytical data for the tenth 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 (LANL 2020, 700948).

### 3.1 Tier I Groundwater Screening

The Tier I screening analysis evaluates the potential for contamination of groundwater by VOCs in soil vapor. The analysis predicts the groundwater concentration that might be in equilibrium with the maximum pore-gas concentrations of VOCs detected if the pore-gas concentration were in contact and equilibrium with groundwater. This analysis is performed using VOC concentrations in the pore gas in calculations according to Henry's law partitioning. If the predicted concentration of a particular VOC in groundwater is less than the groundwater SL, then no potential exists for exceedances of groundwater screening levels.

Because there are no SLs for soil vapor that address the potential for groundwater contamination, the screening evaluation is based on section IX of the Consent Order, which describes the role of data screening in the corrective action process and the Henry's Law constant that describes the equilibrium between vapor and water concentrations. Screening values are used to determine the potential need for cleanup (corrective action) if results indicate that contaminants are present at concentrations above screening values. The source of Henry's law constants is the NMED "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1: Soil Screening Guidance for Human Health Risk Assessments" (NMED 2019, 700550), or the EPA regional screening tables

(https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables). The following dimensionless form of Henry's law constant is used:

$$H' = \frac{C_{air}}{C_{water}} \qquad \textbf{Equation 3.1-1}$$

Where $H'$ = the dimensionless Henry's law constant,

$C_{water}$ = the volumetric concentration of the contaminant in water, and

$C_{air}$ = the volumetric concentration of the contaminant in air (or soil vapor).

Equation 3.1-1 can be used to calculate the Tier I pore-gas screening level ($SL_{pgI}$) as follows:

$$SL_{pgI} = H' \times SL_{gw} \times 1000 \qquad \textbf{Equation 3.1-2}$$

Where $SL_{pgI}$ = the Tier I pore-gas SL (µg/m$^3$),

$SL_{gw}$ = the groundwater SL (µg/L), and

1000 = a conversion factor (to convert liters to cubic meters).

In accordance with section IX of the Consent Order, the groundwater SLs used in Equation 3.1-2 are determined as follows.

For each individual substance, the lower concentration of the NMWQCC groundwater standard or EPA MCL is used as the screening value. If an NMWQCC groundwater standard or an MCL has not been established for a specific substance for which toxicological information is published, the NMED screening level for tap water is used as the groundwater screening value. NMED screening levels are established for either a cancer- or noncancerous-risk type; for the cancer-risk type, screening levels are based on a $10^{-5}$ excess cancer risk. This report was prepared using the 2019 "NMED Risk Assessment Guidance for Site Investigations and Remediation Volume 1, Soil Screening Guidance for Human Health Risk Assessments" (NMED 2019, 700550). If an NMED screening level for tap water has not been established for a specific substance for which toxicological information is published, the EPA regional SL for tap water (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) is used as the groundwater screening value. The EPA screening levels are established for either a cancer- or noncancerous-risk type. For the cancer-risk type, the Consent Order specifies screening at a $10^{-5}$ excess cancer risk. The EPA screening levels for tap water are at $10^{-6}$ excess cancer risk.

If the hypothetical concentration of a VOC in groundwater (calculated using Equation 3.1-2) and the measured VOC concentration in a pore-gas sample are less than the groundwater SL, the concentration of the VOC in soil vapor will not exceed the groundwater SL, even if the VOC plume were to be in direct contact with groundwater. An analysis of the MDA C data is presented in section 5.0 and Appendix D.

Table 3.1-1 presents the calculated concentrations of contaminants in soil vapor corresponding to groundwater SLs (hereafter, Tier I SLs) for the Tier I screening. Table 3.1-2 presents the results of the Tier I screening for the first round of 2019 pore-gas data. Two VOCs were identified that exceeded the Tier I SL. Table 3.1-3 presents the results of the Tier I screening for the second round of pore-gas data. Four VOCs were identified that exceeded the Tier I SLs.

## 4.0 FIELD-SCREENING RESULTS

Before each sampling, field screening was performed in each borehole at the targeted sampling interval to ensure carbon dioxide (ppm), total VOCs (ppm) and percent oxygen (%$O_2$) levels at each sampling

port had stabilized at values representative of subsurface pore-gas conditions. The two rounds of subsurface vapor monitoring were conducted at the locations and depths described in section 2.0 and shown in Table 2.0-1. Before sampling, each interval was purged in accordance with N3B-SOP-ER-2008, "Sampling Subsurface Vapor," to ensure pore gas was being collected. The pore gas from each port was field screened for $CO_2$ (ppm), $\%O_2$, and VOC (ppm) using a MultiRAE IR Multigas Monitor. Each interval was purged until these readings stabilized. The stabilized $CO_2$ (ppm), $\%O_2$, and VOC (ppm) results from the two sampling rounds performed at each sampling location are shown in Appendix B.

## 5.0 ANALYTICAL DATA RESULTS

This section presents a summary of VOC and tritium pore-gas data for 2019 and an evaluation of the pore-gas data.

All analytical data were subject to validation reviews in accordance with N3B guidance and procedures. Appendix C presents a description of these data validation reviews for 2019 MDA C pore-gas data. All validated analytical results from 2019 monitoring rounds are presented in Appendix E (on DVD included with this document).

MDA C pore-gas data are also available at the Intellus New Mexico website (http://www.intellusnm.com/).

### 5.1 2019 VOC Pore-Gas Results

Subsurface vapor samples were collected at MDA C from January 23 through February 22, 2019, and from January 22 through February 21, 2020, in SUMMA canisters submitted for laboratory analysis of VOCs using EPA Method TO-15 and in silica gel cartridges submitted for laboratory analysis of tritium using EPA Method 906.0.

VOC analytical data from the second and first sampling rounds, respectively, are presented in Table 5.1-1 and Plate 1, and Table 5.1-2 and Plate 2. Tritium analytical data from the first and second sampling rounds are presented in Table 5.1-3. The N3B data management program and data quality review process used to evaluate the data are presented in Appendix C. Analytical data and reports for the two sampling rounds are included in Appendix E (on DVD included with this document).

Analytical results demonstrated that 27 VOCs were detected in subsurface pore gas. The VOC screening evaluation identified 4 VOCs in MDA C pore gas at concentrations exceeding Tier I groundwater SLs. The data show that at depths of 600 ft bgs or greater, there have been only two detections above Tier I groundwater SLs in FY 2019 in borehole 50-603467. This shows that the bulk of the plume remains above the Tschicoma dacite (Tvt 2).

During the two rounds of sampling, TCE was detected in all of the samples analyzed and was the VOC detected at the highest concentration. TCE was detected at a concentration of 75,187 $\mu g/m^3$ in borehole location 50-24813 at 241 ft bgs during the first round and at 75,000 $\mu g/m^3$ in the same borehole at the same depth during the second round.

The 2012 MDA C CME (LANL 2012, 222830) estimated the total mass of TCE in the subsurface to be in the range of 134 kg to 239 kg (equivalent to 24 to 43 gal. as liquid). Most of the TCE mass is present in the upper stratigraphic units (i.e., above the Cerro Toledo interval).

Data trends in the MDA C VOC plume for TCE were evaluated from vapor-monitoring activities from FY 2012 through 2019. VOC trends for TCE from 2012 through 2019 show that VOC concentrations at MDA C are consistent with a diffusive plume. Concentrations are increasing slowly at the edges of the

plume, both lateral and at depth. Concentrations in the center of the plume peak at depths of approximately 200–250 ft bgs, well below possible source areas, and appear to be either stable or decreasing slowly with time. Concentrations in the source area show no signs of significant continued releases of VOCs.

Tritium was detected in all of the samples analyzed at concentrations ranging from 3 to 882,380 pCi/L. The maximum tritium concentration was detected during the second round of sampling at borehole location 50-603470 at a depth of 83 ft bgs. A plot of tritium concentrations versus time in boreholes 50-603470 at 83 ft bgs and 50-603383 at 139 ft bgs is shown in Figure 5.1-1.

### 5.2 2012–2017 Pore-Gas and Tritium Data

Previously unreported pore-gas monitoring and tritium data from between 2012 and 2017 are listed in Tables 5.2-1 through 5.2-7.

### 5.3 Evaluation of VOC Pore-Gas Data as Related to Hypothetical Groundwater Contamination

The VOC results from the 2019 monitoring rounds were screened in a Tier I analysis to evaluate whether the concentrations of VOCs would be a potential source of groundwater contamination if the pore gas were in contact with the groundwater (section 3.1). If the predicted concentration of a particular VOC in groundwater is less than the appropriate groundwater SL, then no potential exists for exceedances of groundwater screening levels (see section 3.1).

Equation 3.1-2 was used to screen the maximum concentrations of VOCs detected in pore-gas samples at MDA C during the two sampling rounds. The evaluation included the 25 VOCs detected for which there are MCLs, NMWQCC standards, or EPA regional tap water SLs.

Table 3.1-2 shows the two VOCs that exceeded Tier I SLs in the first sampling round, and Table 3.1-3 shows the four VOCs that exceeded Tier I SLs in the second sampling round. These VOCs are methylene chloride, propanol[2-], trichloroethane[1,1,2-], and TCE. Because some groundwater SLs were exceeded, further screening was performed using the concentrations from the deepest pore-gas sample (i.e., the sample collected closest to the regional aquifer). The deepest sample, in which all three VOCs were detected, was collected from borehole location 50-613184 at a depth interval of 664.5 ft. The results of this screening show that all concentrations from the deep sample resulted in concentrations below the Tier I groundwater SL. Based on this evaluation, the concentrations of VOCs in pore gas at MDA C do not pose an immediate potential source of groundwater contamination.

## 6.0 SUMMARY

The purpose of monitoring VOCs in pore gas at MDA C is to identify changes in the configuration of the VOC plumes, monitor changes in contaminant concentration distribution, and identify gaps in VOC data for future modeling or trend analyses.

The results from the two 2019 sampling rounds and data collected between 2012 and 2017 are summarized as follows.

- VOC concentrations at MDA C are consistent with a diffusive plume.
- There is no evidence of increased concentrations in the source region of MDA C, suggesting that VOC leakage is not happening at a significant rate.

- VOC concentrations increase from ground surface to around 250 ft bgs.
- VOC concentrations decrease with depth from the plume maximum at approximately 250 ft bgs to borehole total depth.
- VOC measurements over the last 10 yr show a decrease in contaminant concentrations near the source areas and an increase in contaminant concentrations at a distance from the source areas.
- VOC concentrations close to the source continue to migrate toward lower concentration areas at the edges of the plume. As this happens, concentration gradients will decrease and outward plume growth will slow over time.
- VOC concentrations measured below the central portion of each source area in the deepest ports near the Tschicoma dacite are below groundwater SLs.
- Tritium was detected at concentrations ranging from 246 to 882,380 pCi/L.

## 7.0 REFERENCES AND MAP DATA SOURCES

### 7.1 References

*The following reference list includes documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. This information is also included in text citations. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above). IDs are used to locate documents in N3B's Records Management System and in the Master Reference Set. The NMED Hazardous Waste Bureau and N3B maintain copies of the Master Reference Set. The set ensures that NMED has the references to review documents. The set is updated when new references are cited in documents.*

LANL (Los Alamos National Laboratory), September 2012. "Corrective Measures Evaluation Report for Material Disposal Area C, Solid Waste Management Unit 50-009 at Technical Area 50," LosAlamos National Laboratory document LA-UR-12-24944, Los Alamos, New Mexico. (LANL 2012, 222830)

LANL (Los Alamos National Laboratory), March 30, 2020. "Technical Area 63 Transuranic Waste Facility Soil Vapor Monitoring System Report, Quarter 10, Los Alamos National Laboratory, EPA ID #NM0890010515," Los Alamos National Laboratory letter (EPC-DO-20-121) and enclosure to K. Pierard (NMED-HWB) from J. Payne (LANL) and Karen E. Armijo (NA-LA). (LANL 2020, 700948)

NMED (New Mexico Environment Department), December 8, 2011. "Approval, Phase III Investigation Report for Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2011, 208797)

NMED (New Mexico Environment Department), June 19, 2019. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," February 2019 (Revision 2, 6/19/19), Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2019, 700550)

## 7.2 Map Data Sources

Data sources used in original figures created for this report are described below and identified by legend title.

| Legend Item | Data Source |
|---|---|
| Disposal pit/ impoundment | Waste Storage Features; LANL, Environment and Remediation Support Services Division, GIS/Geotechnical Services Group, EP2007-0032; 1:2,500 Scale Data; 13 April 2007. |
| Disposal shaft | Waste Storage Features; LANL, Environment and Remediation Support Services Division, GIS/Geotechnical Services Group, EP2007-0032; 1:2,500 Scale Data; 13 April 2007. |
| Elevation contour | Hypsography, 10, 20, & 100 Foot Contour Intervals; LANL, ENV Environmental Remediation and Surveillance Program; 1991. |
| Fence | Security and Industrial Fences and Gates; LANL, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007. |
| LANL boundary | LANL Areas Used and Occupied; LANL, Site Planning & Project Initiation Group, Infrastructure Planning Division; 19 September 2008. |
| Material disposal area | Materials Disposal Areas; LANL, ENV Environmental Remediation and Surveillance Program; ER2004-0221; 1:2,500 Scale Data; 23 April 2004. |
| Paved road | Paved Road Arcs; Los Alamos National Laboratory, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007. |
| Structure | Structures; LANL, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007. |
| TA boundary | Technical Area Boundaries; LANL, Site Planning & Project Initiation Group, Infrastructure Planning Division; 19 September 2007. |
| Unpaved road | Dirt Road Arcs; LANL, KSL Site Support Services, Planning, Locating and Mapping Section; 06 January 2004; as published 10 September 2007. |
| Vapor monitoring borehole | Point Feature Locations of the Environmental Restoration Project Database; LANL, Environment and Remediation Support Services Division, EP2007-0754; 30 November 2007. |

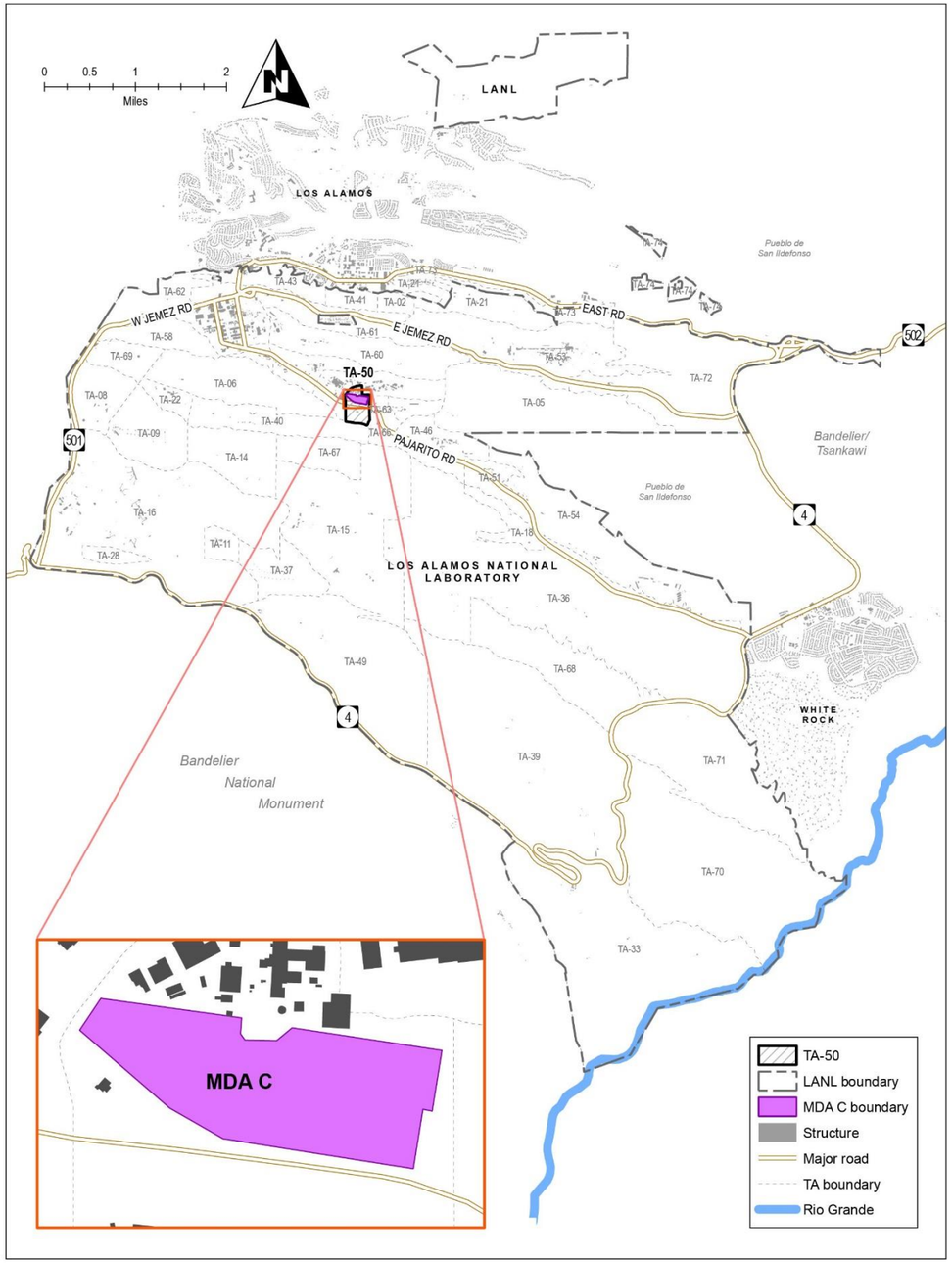


**Figure 1.1-1 Location of MDA C in TA-50 with respect to Laboratory technical areas and surrounding landholdings**

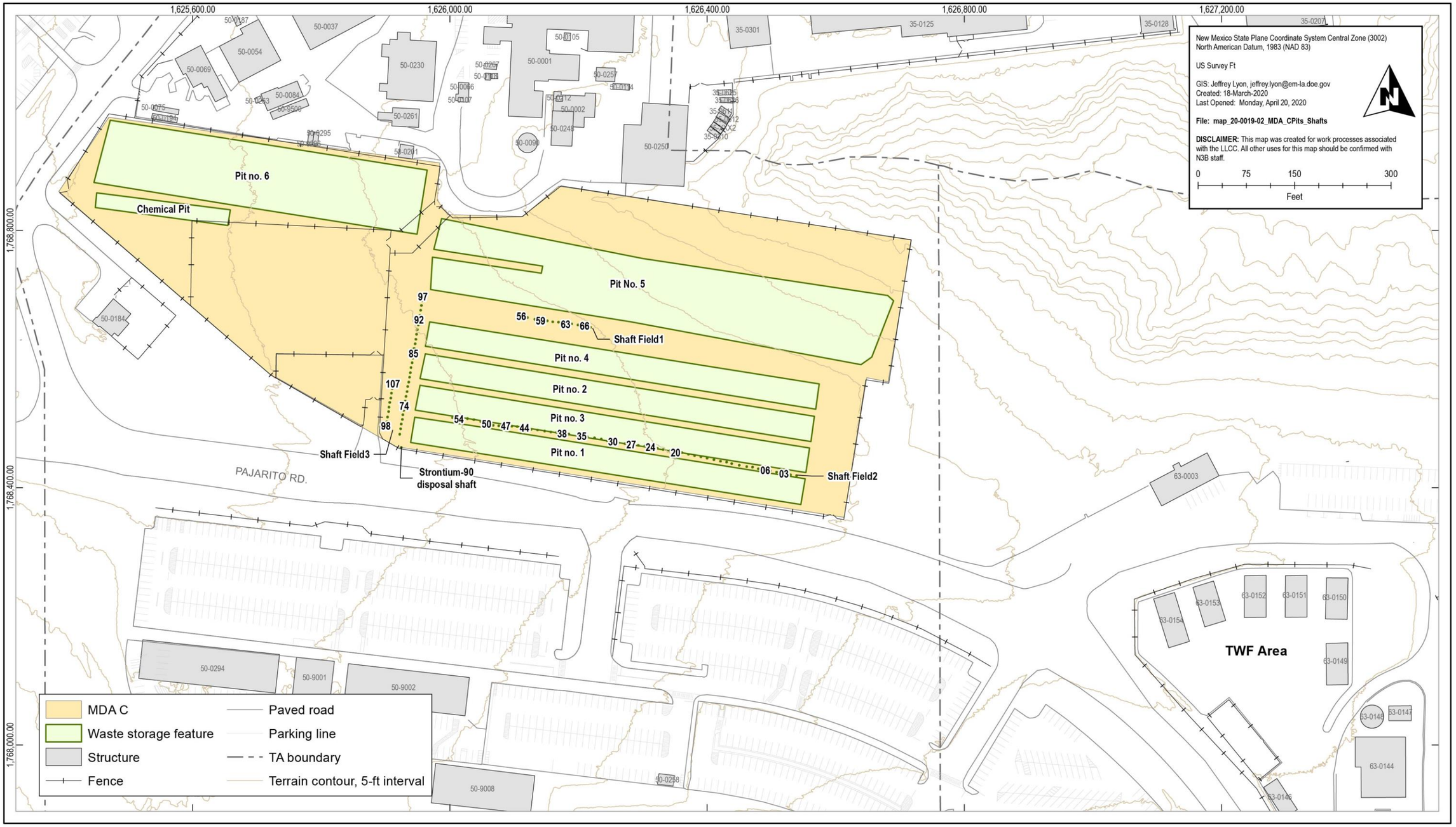


**Figure 1.1-2 Location of MDA C pits and shafts**

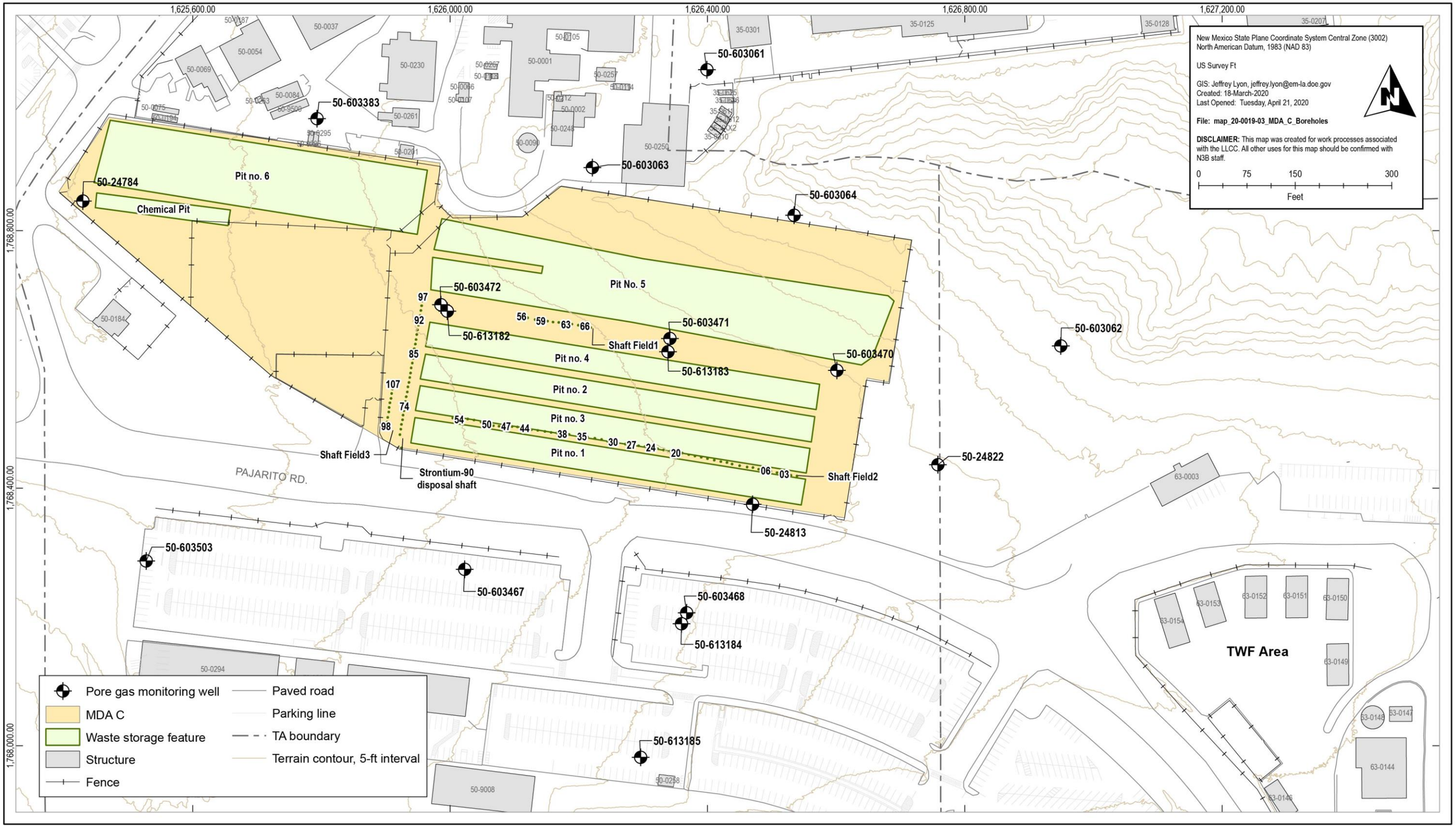


**Figure 1.1-3 Location of MDA C monitoring boreholes**

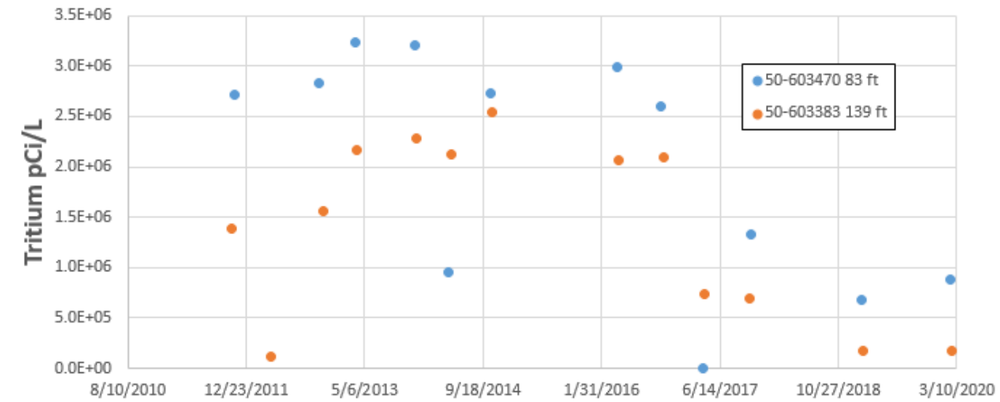


**Figure 5.1-1 Tritium concentration versus time for boreholes 50-603470 and 50-603383**

**Table 2.0-1**
**2019 MDA C Subsurface Vapor-Monitoring Locations**

| Location ID | Screening Conducted | Pore Depth (vertical depth in ft) |
|---|---|---|
| 50-24784 | Yes | 155, 244, 362, 450 |
| 50-24813 | Yes | 25, 150, 241, 358, 450, 600 |
| 50-24822 | Yes | 25, 142, 235, 351, 450 |
| 50-603061 | Yes | 25, 128, 228, 347 ,450 |
| 50-603062 | Yes | 122, 217, 337, 450 |
| 50-603063 | Yes | 25, 128, 228, 347, 450 |
| 50-603064 | Yes | 113, 214, 332, 500 |
| 50-603383 | Yes | 26, 139, 244, 359, 450 |
| 50-603467 | Yes | 143, 244, 360, 500, 600 |
| 50-603468/50-613184 | Yes | 142, 233, 354, 403, 500, 600, 664.5 |
| 50-603470 | Yes | 83, 203, 278,351 450, 650 |
| 50-603471/50-613183 | Yes | 90, 209, 288, 360, 450, 550, 642.5, and unknown port depth* |
| 50-603472/50-613182 | Yes | 27, 146, 292, 364, 450, 550, 632.5 |
| 50-603503 | Yes | 133, 237, 347, 450 |
| 50-613185 | Yes | 145, 235, 350, 450, 600 |

* The unknown port depth could be at 30 ft or it could be at 90 ft, and the one labeled 90 ft could actually be the 30-ft port. During sampling, the sampling team was unable to determine the actual depth, which is why both ports were sampled.

**Table 3.1-1**
**MDA C Tier I Screening Calculations**

| VOC | Henry's Law Constant[a] (dimensionless) | Groundwater SL (µg/L) | Source of Groundwater SL | Tier I Pore-Gas Screening Concentrations Corresponding to Groundwater Standard (µg/m$^3$) |
|---|---|---|---|---|
| Acetone | 0.00144 | 14,100 | NMED Tap Water[b] | 20,300 |
| Benzene | 0.228 | 5 | EPA MCL[c] | 1140 |
| Bromodichloromethane | 0.0869 | 1.34 | NMED Tap Water | 116 |
| Butadiene[1,3-] | 3.0 | 0.181 | NMED Tap Water | 546 |
| Carbon disulfide | 0.59 | 810 | NMED Tap Water | 478,000 |
| Carbon tetrachloride | 1.13 | 5 | NMWQCC[d] | 5650 |
| Chloroform | 0.150 | 80 | EPA MCL[e] | 12,000 |
| Chlorodifluoromethane | 1.66 | 104,000 | NMED Tap Water | 173,000,000 |
| Cyclohexane | 6.1 | 13,000 | EPA Tap Water | 79,300,000 |
| Dichloroethene[cis1,2-] | 0.167 | 70 | NMWQCC | 11,700 |
| Dichlororethene[trans-1,2-] | 0.167 | 100 | NMWQCC | 16,700 |
| Dichlorodifluoromethane | 14.1 | 197 | NMED Tap Water | 2,780,000 |

**Table 3.1-1 (continued)**

| VOC | Henry's Law Constant[a] (dimensionless) | Groundwater SL (µg/L) | Source of Groundwater SL | Tier I Pore-Gas Screening Concentrations Corresponding to Groundwater Standard (µg/m$^3$) |
|---|---|---|---|---|
| Dichloroethane[1,1-] | 0.230 | 25 | NMWQCC | 5750 |
| Dichloroethane[1,2-] | 0.0484 | 5 | NMWQCC | 242 |
| Dichloroethene[1,1-] | 1.07 | 7 | NMWQCC | 7490 |
| Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | na[f] | na | na | na |
| Dichloropropane[1,2-] | 0.116 | 5 | NMWQCC | 580 |
| Ethanol | na | na | na | na |
| Ethylbenzene | 0.323 | 700 | NM GW | 226,000 |
| Hexane | 73.8 | 319 | NMED Tap Water | 23,500,000 |
| Isooctane | na | na | na | na |
| Methyl tert-butyl ether | 0.024 | 140 | EPA Tap Water[g] | 3360 |
| Methylene chloride | 0.133 | 5 | NMWQCC | 665 |
| Propanol[2-] | 0.000331 | 410 | EPA Tap Water | 136 |
| Tetrachloroethene | 0.726 | 5 | NMWQCC | 3630 |
| Tetrahydrofuran | na | 5 | NMED GW | na |
| Toluene | 0.272 | 1000 | NMWQCC | 272,000 |
| Trichloro-1,2,2-trifluoroethane[1,1,2-] | 21.6 | 55,000 | NMED Tap Water | 1,190,000,000 |
| Trichloroethane[1,1,1-] | 0.705 | 200 | NMWQCC | 141,000 |
| Trichloroethane[1,1,2-] | 0.0338 | 5 | NMWQCC | 169 |
| Trichloroethene | 0.404 | 5 | NMWQCC | 2020 |
| Trichlorofluoromethane | 3.98 | 1140 | NMED Tap Water | 4,540,000 |
| Trimethylbenzene[1,2,4-] | 0.252[g] | 56 | EPA Tap Water | 14,100 |
| Xylene[1,3-]+xylene[1,4-][h] | 0.212 | 193 | NM Tap Water | 40,900 |

Note: Tier I screening concentration is the calculated concentration in pore gas exceeding groundwater standard derived from Equation 3.1-2.

[a] The source of Henry's law constants is the NMED "NMED Risk Assessment Guidance for Site Investigations and Remediation Volume 1, Soil Screening Guidance for Human Health Risk Assessments" (NMED 2019, 700550) or the EPA regional screening tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[b] NMED tap water screening level (NMED 2019, 700550, Appendix A).

[c] MCL for organic contaminants (40 Code of Federal Regulations [CFR] 141.61)

[d] NMWQCC standard (20.6.2.3103 New Mexico Administrative Code)

[e] MCL for total trihalomethanes (40 CFR 141.64).

[f] na = Not available.

[g] EPA regional tap water screening level (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[h] SL for xylene [1,3-]+xylene[1,4-] is for xylene mixture.

**Table 3.1-2**
**Screening of VOCs Detected in Pore Gas during First Sampling Round at MDA C**

| VOC | Maximum Pore-Gas Concentration (µg/m³) | Tier I Pore-Gas Screening Concentrations Corresponding to Groundwater Standard (µg/m³) | Tier I Potential for Groundwater Impact[a] |
|---|---|---|---|
| Acetone | 66.47 (J)[b] | 20,300 | No |
| Bromodichloromethane | 10.71 (J) | 116 | No |
| Carbon disulfide | 43.57 (J) | 478,000 | No |
| Carbon tetrachloride | 1634.7 | 5650 | No |
| Chloroform | 2098.22 | 12,000 | No |
| Dichlorodifluoromethane | 1087.27 | 2,780,000 | No |
| Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | 18.16 (J) | na[c] | No |
| Dichloroethane[1,1-] | 21.03 (J) | 5750 | No |
| Dichloroethane[1,2-] | 93.03 | 242 | No |
| Dichloroethene[1,1-] | 1307.58 | 7490 | No |
| Dichloroethene[cis-1,2-] | 633.98 | 11,700 | No |
| Dichloropropane[1,2-] | 351 | 580 | No |
| Isooctane | 65.37 (J) | na | No |
| Methylene chloride | 1110.87 | 665 | Yes |
| Propanol[2-] | 7.37 (J) | 136 | No |
| Tetrachloroethene | 1897.9 | 3630 | No |
| Trichloro-1,2,2-trifluoroethane[1,1,2-] | 22,977 | 1,190,000,000 | No |
| Trichloroethane[1,1,1-] | 3108.01 | 141,000 | No |
| Trichloroethane[1,1,2-] | 163.58 (J) | 169 | No |
| Trichloroethene | 75,186.8 | 2020 | Yes |
| Trichlorofluoromethane | 49.41 (J) | 4,540,000 | No |

Notes: Tier I screening concentration is the calculated concentration in pore gas exceeding groundwater standard derived from Equation 3.1-2. Purple shading indicate VOCs that did not pass the Tier I screen.

[a] If concentration of a VOC measured in a pore-gas sample is less than the pore-gas SL, the concentration of the VOC in soil vapor will not exceed the groundwater SL, even if the VOC plume is in direct contact with groundwater.

[b] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[c] na = not available.

**Table 3.1-3**
**Screening of VOCs Detected in**
**Pore Gas During Second Sampling Round at MDA C**

| VOC | Maximum Pore-Gas Concentration (µg/m³) | Tier I Pore Gas Screening Concentrations Corresponding to Groundwater Standard (µg/m³) | Tier I Potential for Groundwater Impact[a] |
|---|---|---|---|
| Acetone | 70 (J)[b] | 20,300 | No |
| Benzene | 17 (J) | 1140 | No |
| Carbon disulfide | 53 (J) | 478,000 | No |
| Carbon tetrachloride | 1400 | 5650 | No |
| Chloroform | 2400 | 12,000 | No |
| Dichlorodifluoromethane | 840 | 2,780,000 | No |
| Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | 18.16 | na[c] | No |
| Dichloroethane[1,2-] | 97 | 242 | No |
| Dichloroethene[1,1-] | 670 | 7490 | No |
| Dichloroethene[cis-1,2-] | 550 | 11,700 | No |
| Dichloroethene[trans-1,2-] | 13 (J) | 16,700 | No |
| Dichloropropane[1,2-] | 79 | 580 | No |
| Ethanol | 110 | na | No |
| Methylene chloride | 1500 | 665 | Yes |
| Methyl tert-butyl ether | 7.2 (J) | 3360 | No |
| Propanol[2-] | 470 | 136 | Yes |
| Tetrachloroethene | 1400 | 3630 | No |
| Toluene | 10 (J) | 272,000 | No |
| Trichloro-1,2,2-trifluoroethane[1,1,2-] | 11,000 | 1,190,000,000 | No |
| Trichloroethane[1,1,1-] | 1700 | 141,000 | No |
| Trichloroethane[1,1,2-] | 170 | 169 | Yes |
| Trichloroethene | 75,000 | 2020 | Yes |
| Trichlorofluoromethane | 55 (J) | 4,540,000 | No |
| Trimethylbenzene[1,2,4-] | 24 (J) | 14,100 | No |

Notes: Tier I screening concentration is the calculated concentration in pore gas exceeding groundwater standard derived from Equation 3.1-2. Purple shading indicate VOCs that did not pass the Tier I screen.

[a] If concentration of a VOC measured in a pore-gas sample is less than the pore-gas SL, the concentration of the VOC in pore gas will not exceed the groundwater SL, even if the VOC plume were in direct contact with groundwater.

[b] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[c] na = not available.

**Table 5.1-1**
**2019 Second Round VOC Pore-Gas Detected Results at MDA C**

| Field Sample ID 2019 – 2nd round | Location ID | Depth (ft) | Acetone | Benzene | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2,2-tetrafluoroethane[1,2] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloroethene[trans-1,2-] | Dichloropropane[1,2-] | Ethanol | Methylene Chloride | Methyl tert-Butyl Ether | Propanol[2-] | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **1140** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **242** | **7490** | **11,700** | **16,700** | **580** | **na** | **665** | **3360** | **136** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **14,100** |
| MD50-20-191444 | 50-24784 | 155–155 | 28 (J)[b] | —[c] | — | — | 14 (J) | — | — | — | — | — | — | — | — | — | — | 64 (J) | 100 | — | — | — | — | 140 | — | — |
| MD50-20-191446 | 50-24784 | 362–362 | — | — | — | 430 | 38 (J) | 200 | — | — | — | — | — | — | — | — | — | — | 1400 | — | 80 (J) | 20 (J) | — | 3100 | 27 (J) | — |
| MD50-20-191447 | 50-24784 | 450–450 | — | — | — | 320 | — | 170 | — | — | — | — | — | — | — | — | — | — | 590 | — | 28 (J) | — | — | 1300 | 19 (J) | — |
| MD50-20-191452 | 50-24813 | 25–25 | — | — | — | 750 | 680 | 100 | — | — | — | 38 (J) | — | — | — | — | — | — | 360 | — | 16 (J) | — | 30 (J) | 8100 | — | — |
| MD50-20-191453 | 50-24813 | 150–150 | — | 6.7 (J) | — | 1100 | 2400 | 300 | — | 97 | 15 (J) | 400 | — | 65 | — | 320 | — | — | 580 | — | 41 (J) | 11 (J) | 170 | 33,000 | 15 (J) | — |
| MD50-20-191454 | 50-24813 | 241–241 | — | — | — | 1400 | 1900 | 840 | — | 27 (J) | 13 (J) | 550 | 13 (J) | 50 (J) | — | 490 | — | — | 1000 | — | 100 (J) | 19 (J) | 31 (J) | 75,000 | 34 (J) | — |
| MD50-20-191456 | 50-24813 | 450–450 | — | 8 (J) | — | 500 | 170 | 640 | — | — | — | 59 | — | — | — | 140 (J) | 7.2 (J) | — | 360 | — | 34 (J) | — | — | 27,000 | 39 (J) | — |
| MD50-20-191466 | 50-24822 | 235–235 | — | 11 (J) | — | 360 | 540 | 690 | — | — | — | 150 | — | — | — | 300 | — | — | 230 | — | 280 | 39 (J) | — | 33,000 | 34 (J) | — |
| MD50-20-191467 | 50-24822 | 351–351 | — | — | — | 280 | 200 | 640 | — | — | — | 59 | — | — | — | 170 | — | — | 150 | — | 160 | 11 (J) | — | 24,000 | 31 (J) | — |
| MD50-20-191468 | 50-24822 | 450–450 | — | — | — | 190 | 46 (J) | 450 | — | — | — | 18 (J) | — | — | — | — | — | — | 61 (J) | — | 57 (J) | — | — | 11,000 | 21 (J) | — |
| MD50-20-191579 | 50-603062 | 217–217 | — | 9.3 (J) | — | 75 (J) | 68 | 280 | — | — | 28 (J) | 17 (J) | — | — | — | — | — | — | 46 (J) | — | 840 | 76 | — | 8600 | 19 (J) | — |
| MD50-20-191580 | 50-603062 | 337–337 | — | — | — | 51 (J) | 10 (J) | 200 | — | — | — | — | — | — | — | — | — | — | — | — | 290 | 11 (J) | — | 3000 | 12 (J) | — |
| MD50-20-191581 | 50-603062 | 450–450 | — | — | — | 29 (J) | — | 130 | — | — | — | — | — | — | — | — | — | — | — | — | 84 (J) | — | — | 1000 | — | — |
| MD50-20-191484 | 50-603064 | 113–113 | — | 7.7 (J) | — | 180 | 780 | 370 | — | — | 520 | 200 | — | 41 (J) | — | 100 (J) | — | — | 500 | — | 8400 | 1500 | — | 2,3000 | 31 (J) | — |
| MD50-20-191485 | 50-603064 | 214–214 | — | 13 (J) | — | 310 | 630 | 540 | — | — | 670 | 220 | — | 29 (J) | — | 420 | — | — | 580 | — | 11,000 | 1700 | — | 32,000 | 49 (J) | — |
| MD50-20-191486 | 50-603064 | 332–332 | — | — | — | 300 | 100 | 540 | — | — | 260 | 48 (J) | — | — | — | — | — | — | 260 | — | 5900 | 320 | — | 17,000 | 55 (J) | — |
| MD50-20-191487 | 50-603064 | 500–500 | — | — | — | 75 (J) | — | 260 | — | — | 21 (J) | — | — | — | — | — | — | — | 49 (J) | — | 520 | — | — | 2600 | 24 (J) | — |
| MD50-20-191502 | 50-603467 | 143–143 | 31 (J) | — | — | 280 | 410 | 160 | — | 12 (J) | — | 91 | — | — | — | — | — | 470 | 330 | — | — | 27 (J) | — | 10,000 | — | — |
| MD50-20-191503 | 50-603467 | 244–244 | — | — | — | 150 | 200 | 79 | — | — | — | 38 (J) | — | — | 45 (J) | — | — | — | 150 | — | — | — | — | 5300 | — | — |
| MD50-20-191504 | 50-603467 | 360–360 | 33 (J) | — | — | 69 (J) | 59 (J) | 38 (J) | — | — | — | — | — | — | 41 (J) | — | — | 19 (J) | 88 | — | — | 19 (J) | — | 3000 | — | — |
| MD50-20-191505 | 50-603467 | 500–500 | 20 (J) | — | — | 69 (J) | 22 (J) | 74 | — | — | — | — | — | — | — | — | — | — | 95 | — | — | — | — | 2800 | — | — |
| MD50-20-191506 | 50-603467 | 600–600 | 22 (J) | — | — | 69 (J) | 26 (J) | 79 | — | — | — | — | — | — | — | — | — | — | — | — | — | 20 (J) | — | 2000 | — | — |
| MD50-20-191512 | 50-603468 | 142–142 | — | — | — | 290 | 410 | 240 | — | — | — | 110 | — | — | — | 32 (J) | — | — | 210 | — | — | — | — | 15,000 | — | — |

## Table 5.1-1 (continued)

| Field Sample ID 2019 – 2nd round | Location ID | Depth (ft) | Acetone | Benzene | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2,2-tetrafluoroethane[1,2] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloroethene[trans-1,2-] | Dichloropropane[1,2-] | Ethanol | Methylene Chloride | Methyl tert-Butyl Ether | Propanol[2-] | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **1140** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **242** | **7490** | **11,700** | **16,700** | **580** | **na** | **665** | **3,360** | **136** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **14,100** |
| MD50-20-191513 | 50-603468 | 233–233 | — | — | — | 600 | 630 | 420 | — | — | — | 180 | — | — | — | 490 | — | — | 370 | — | — | — | — | 26,000 | 19 (J) | — |
| MD50-20-191514 | 50-603468 | 354–354 | 18 (J) | 7 (J) | — | 600 | 460 | 540 | — | — | — | 150 | — | — | — | 320 | — | — | 390 | — | — | — | — | 28,000 | 19 (J) | — |
| MD50-20-191515 | 50-603468 | 403–403 | 20 (J) | — | — | 430 | 260 | 500 | — | — | — | 99 | — | — | 34 (J) | 200 | — | — | 160 | — | — | — | — | 18,000 | 25 (J) | — |
| MD50-20-191526 | 50-603470 | 83–183 | 36 (J) | — | — | 200 | 730 | 120 | — | 19 (J) | 10 (J) | 83 | — | 28 (J) | — | 30 (J) | — | — | 750 | — | 210 | 37 (J) | 87 | 9700 | — | — |
| MD50-20-191527 | 50-603470 | 203–203 | — | 8.6 (J) | 14 (J) | 350 | 930 | 430 | — | 18 (J) | 34 (J) | 250 | — | 29 (J) | — | 490 | — | — | 530 | — | 720 | 93 | 15 (J) | 33,000 | 29 (J) | — |
| MD50-20-191528 | 50-603470 | 278–278 | — | 12 (J) | — | 530 | 880 | 690 | — | 9.7 (J) | 44 (J) | 280 | — | 27 (J) | — | 760 | — | — | 600 | — | 1000 | 87 | — | 49,000 | 46 (J) | — |
| MD50-20-191529 | 50-603470 | 351–351 | 36 (J) | 8.9 (J) | — | 430 | 400 | 690 | — | — | 32 (J) | 140 | — | — | — | 420 | — | — | 410 | — | 800 | 46 (J) | — | 40,000 | 47 (J) | — |
| MD50-20-191530 | 50-603470 | 450–450 | 33 (J) | 8.6 (J) | 14 (J) | 300 | 110 | 540 | — | — | 17 (J) | 44 (J) | — | — | 16 (J) | 120 (J) | — | — | 200 | — | 370 | 15 (J) | — | 20,000 | 42 (J) | — |
| MD50-20-191531 | 50-603470 | 650–650 | — | — | — | — | — | 29 (J) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 91 | — | — |
| MD50-20-191538 | 50-603471 | Unknown[d] | 20 (J) | — | 53 (J) | 940 | 1400 | 100 | — | 97 | 16 (J) | 180 | — | 65 | — | 170 (J) | — | — | 880 | — | 260 | 38 (J) | 82 | 17,000 | 13 (J) | — |
| MD50-20-191539 | 50-603471 | 90–90 | — | 10 (J) | — | 750 | 1200 | 100 | — | 80 | — | 100 | — | 43 (J) | — | 56 (J) | — | — | 750 | — | 180 | 30 (J) | 47 (J) | 12,000 | 13 (J) | — |
| MD50-20-191540 | 50-603471 | 209–209 | — | 13 (J) | — | 750 | 1200 | 460 | — | 65 | 27 (J) | 340 | 9.9 (J) | 69 | — | 730 | — | — | 1100 | — | 500 | 42 (J) | 25 (J) | 44,000 | 34 (J) | — |
| MD50-20-191541 | 50-603471 | 288–288 | — | 17 (J) | — | 940 | 1300 | 590 | — | 38 (J) | 31 (J) | 350 | 9.1 (J) | 55 (J) | — | 1500 | — | — | 1200 | — | 570 | 50 (J) | 14 (J) | 53,000 | 44 (J) | — |
| MD50-20-191542 | 50-603471 | 360–360 | — | 14 (J) | — | 750 | 680 | 690 | — | 12 (J) | 24 (J) | 220 | — | 25 (J) | — | 830 | — | — | 950 | — | 470 | 27 (J) | 11 (J) | 45,000 | 53 (J) | — |
| MD50-20-191543 | 50-603471 | 450–450 | 70 (J) | 8.6 (J) | — | 200 | 190 | 220 | — | — | — | 63 | — | — | 110 | 120 (J) | — | — | 240 | 10 (J) | 80 (J) | — | — | 11,000 | 18 (J) | — |
| MD50-20-191554 | 50-603472 | 27–27 | — | — | — | 36 (J) | 210 | 32 (J) | — | — | — | — | — | 18 (J) | — | — | — | — | 460 | — | 50 (J) | 71 (J) | — | 2300 | — | — |
| MD50-20-191555 | 50-603472 | 146–146 | 23 (J) | — | — | 210 | 540 | 130 | — | 49 (J) | 10 (J) | 100 | — | 79 | — | 380 | — | — | 810 | — | 100 | 53 (J) | — | 11,000 | 15 (J) | — |
| MD50-20-191556 | 50-603472 | 292–292 | 20 (J) | — | — | 140 | 180 | 100 | — | — | — | 55 | — | — | — | 200 | — | 19 (J) | 430 | — | 52 (J) | 13 (J) | — | 7500 | 11 (J) | — |
| MD50-20-191557 | 50-603472 | 364–364 | — | 7 (J) | — | 520 | 270 | 430 | — | — | 12 (J) | 91 | — | — | — | 380 | — | — | 1200 | — | 110 | 28 (J) | — | 24,000 | 40 (J) | — |
| MD50-20-191558 | 50-603472 | 450–450 | — | — | — | 130 | 37 (J) | 140 | — | — | — | — | — | — | — | 52 (J) | — | — | 290 | — | — | — | — | 5200 | 12 (J) | — |
| MD50-20-191586 | 50-603503 | 133–133 | — | — | — | 62 (J) | 110 | 36 (J) | — | 12 (J) | — | — | — | 29 (J) | — | 31 (J) | — | — | 420 | — | 80 (J) | 98 | — | 2300 | — | 24 (J) |
| MD50-20-191587 | 50-603503 | 237–237 | — | — | — | 110 | 160 | 69 | — | — | — | 30 (J) | — | 45 (J) | — | 120 (J) | — | — | 560 | — | 80 (J) | 46 (J) | — | 5200 | 11 (J) | — |
| MD50-20-191588 | 50-603503 | 347–347 | — | — | — | 150 | 100 | 110 | — | — | — | 19 (J) | — | 17 (J) | — | 76 (J) | — | — | 520 | — | 47 (J) | 46 (J) | — | 5300 | 11 (J) | — |
| MD50-20-191589 | 50-603503 | 450–450 | 21 (J) | — | — | 100 | 31 (J) | 89 | — | — | — | — | — | — | — | 28 (J) | — | — | 330 | — | — | 100 | — | 3500 | — | 16 (J) |
| MD50-20-191564 | 50-613182 | 550–550 | — | — | — | 220 | 13 (J) | 290 | — | — | — | — | — | — | — | — | — | — | 260 | — | — | — | — | 4600 | 22 (J) | — |
| MD50-20-191565 | 50-613182 | 632.5–632.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 64 (J) | — | — |
| MD50-20-191550 | 50-613183 | 550–550 | — | — | — | 250 | 13 (J) | 450 | — | — | — | — | — | — | — | — | — | — | 140 | — | 35 (J) | 40 (J) | — | 5000 | 38 (J) | — |
| MD50-20-191551 | 50-613183 | 642.5–642.5 | — | — | — | — | — | 21 (J) | — | — | — | — | — | — | — | — | — | — | — | — | — | 39 (J) | — | 200 | — | — |

**Table 5.1-1 (continued)**

| Field Sample ID 2019 – 2nd round | Location ID | Depth (ft) | Acetone | Benzene | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2,2-tetrafluoroethane[1,2] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloroethene[trans-1,2-] | Dichloropropane[1,2-] | Ethanol | Methylene Chloride | Methyl tert-Butyl Ether | Propanol[2-] | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **1140** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **242** | **7490** | **11,700** | **16,700** | **580** | **na** | **665** | **3,360** | **136** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **14,100** |
| MD50-20-191520 | 50-613184 | 500–500 | — | — | — | 190 | 18 (J) | 290 | — | — | — | — | — | — | — | — | — | — | 95 | — | — | — | — | 5900 | 11 (J) | — |
| MD50-20-191521 | 50-613184 | 600–600 | — | — | — | 88 (J) | — | 170 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1400 | — | — |
| MD50-20-191522 | 50-613184 | 664.5–664.5 | — | — | — | 20 (J) | — | 36 (J) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 220 | — | — |
| MD50-20-191594 | 50-613185 | 145–145 | — | — | — | 88 | 100 | 100 | — | — | — | 18 (J) | — | — | — | 42 (J) | — | — | 81 (J) | — | — | — | — | 4000 | — | — |
| MD50-20-191595 | 50-613185 | 235–235 | — | — | — | 160 | 110 | 170 | — | — | — | 40 (J) | — | — | — | 87 (J) | — | — | 150 | — | — | — | — | 7500 | — | — |
| MD50-20-191596 | 50-613185 | 350–350 | — | — | — | 130 | 26 (J) | 170 | — | — | — | — | — | — | — | — | — | — | 81 (J) | — | — | — | — | 5000 | — | — |
| MD50-20-191597 | 50-613185 | 450–450 | — | — | — | 94 | — | 130 | — | — | — | — | — | — | — | — | — | — | 43 (J) | — | — | — | — | 2400 | — | — |
| MD50-20-191598 | 50-613185 | 600–600 | — | — | — | 34 (J) | — | 79 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 300 | — | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[c] — = Not detected.

[d] Port was not labeled with the port depth.

**Table 5.1-2**
**2019 First Round VOC Pore-Gas Detected Results at MDA C**

| Field Sample ID 2019 – 1st round | Location ID | Depth (ft) | Acetone | Bromodichloromethane | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2-ttetrafluoroethane[1,2] | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **116** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **5750** | **242** | **7490** | **11,700** | **580** | **na** | **665** | **136** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| MD50-19-166032 | 50-24784 | 155–155 | —[b] | — | — | 163.47 | 302.53 | 88.96 | — | — | — | — | — | 60.04 | — | 30.55 (J) | — | 1897.9 | 122.54 | 32.17 (J)[c] | — | 2953.77 | 10.11 (J) |
| MD50-19-166033 | 50-24784 | 244–244 | — | — | 43.57(J) | 113.17 | 58.56 (J) | 59.31 (J) | — | — | — | — | — | 16.16 (J) | — | 204.82 | — | 881.17 | 40.59 (J) | — | — | 1664.85 | — |
| MD50-19-166034 | 50-24784 | 362–362 | — | — | — | 358.38 | 27.33 (J) | 172.97 | — | — | — | — | — | — | — | — | — | 1355.64 | 65.87 (J) | 16.36 (J) | — | 2738.95 | 15.16 (J) |
| MD50-19-166035 | 50-24784 | 450–450 | — | — | — | 276.64 | — | 158.15 | — | — | — | — | — | — | — | — | — | 582.92 | 22.21 (J) | — | — | 1235.21 | 15.16 (J) |
| MD50-19-166036 | 50-24813 | 25–25 | — | — | — | 880.22 | 731.94 | 128.50 | — | — | — | — | 32.49 (J) | — | — | — | — | 372.80 | — | — | 25.63 (J) | 8592.78 | — |
| MD50-19-166037 | 50-24813 | 150–150 | — | — | — | 1131.71 | 2049.43 | 345.95 | — | — | 76.85 (J) | — | 384.35 | 45.26 (J) | — | 222.17 (J) | — | 569.37 | — | — | 163.58 (J) | 30,074.7 | — |
| MD50-19-166038 | 50-24813 | 241–241 | — | — | — | 1634.7 | 2098.22 | 1087.27 | — | — | — | — | 633.98 | — | — | 624.86 (J) | — | 948.95 | — | — | — | 75,186.8 | — |
| MD50-19-166039 | 50-24813 | 358–358 | — | — | — | 817.35 | 487.96 | 790.74 | — | -- | — | — | 178.31 | — | — | — | — | 562.59 | — | — | — | 43,500.9 | — |
| MD50-19-166040 | 50-24813 | 450–450 | — | — | — | 490.41 | 151.27 | 593.06 | — | — | — | — | 55.47 (J) | — | — | 118.03 (J) | — | 311.80 | — | — | — | 25,241.3 | 29.76 (J) |
| MD50-19-166041 | 50-24813 | 600–600 | — | — | — | 157.18 | 5.86 | 316.3 | — | — | — | — | — | — | — | — | — | 52.19 (J) | — | — | — | 4081.57 | 18.53 (J) |
| MD50-19-166042 | 50-24822 | 25–25 | — | — | — | 62.87 | 219.58 | 98.84 | — | — | — | — | — | — | 25.21 (J) | — | — | 108.45 | 47.49 (J) | 13.63 (J) | — | 5316.78 | — |
| MD50-19-166043 | 50-24822 | 142–142 | — | — | — | 251.49 | 487.96 | 454.68 | — | — | — | — | 103.02 (J) | — | — | 166.63 (J) | — | 210.12 | 168.5 (J) | 32.72 (J) | — | 20,407.9 | — |
| MD50-19-166044 | 50-24822 | 235–235 | — | — | — | 326.94 | 536.75 | 691.90 | — | — | — | — | 146.61 | — | — | 277.72 (J) | — | 244.02 | 214.45 (J) | 40.35 (J) | — | 30,611.8 | — |
| MD50-19-166045 | 50-24822 | 351–351 | — | — | — | 270.35 | 175.67 | 642.48 | — | — | — | — | 59.44 (J) | — | — | 131.92 (J) | — | 135.56 (J) | 114.88 (J) | — | — | 21,481.9 | — |
| MD50-19-166046 | 50-24822 | 450–450 | — | — | — | 176.04 | 47.82 (J) | 459.61 | — | — | — | — | — | — | — | 41.66 (J) | — | 65.75 (J) | — | — | — | 10,203.9 | — |
| MD50-19-166047 | 50-603061 | 25–25 | — | — | — | — | 18.54 (J) | 311.35 | — | — | — | 166.419 | — | — | — | — | — | 122.01 (J) | 7658.88 | 817.90 | — | 537.05 | — |
| MD50-19-166048 | 50-603061 | 128–128 | — | — | — | 69.16 (J) | 63.43 (J) | 276.76 | — | — | — | 1109.46 | — | — | — | — | — | 338.91 | 22,210.8 | 2671.8 | — | 2470.42 | 19.09 (J) |
| MD50-19-166049 | 50-603061 | 228–228 | — | — | — | 138.32 (J) | 53.68 (J) | 286.64 | — | — | — | 1307.58 | — | — | — | — | — | 352.47 | 22,976.6 | 3108.01 | — | 4403.8 | 30.88 (J) |
| MD50-19-166050 | 50-603061 | 347–347 | — | — | — | 119.46 | 10.25 (J) | 207.57 | — | — | — | 340.76 | — | — | — | — | — | 142.34 | 8424.77 | 545.26 | — | 1879.67 | 24.14 (J) |

**Table 5.1-2 (continued)**

| Field Sample ID 2019 – 1st round | Location ID | Depth (ft) | Acetone | Bromodichloromethane | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2-ttetrafluoroethane[1,2] | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **116** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **5750** | **242** | **7490** | **11,700** | **580** | **na** | **665** | **136** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| MD50-19-166051 | 50-603061 | 450–450 | — | — | — | 58.47 (J) | — | 138.38 | — | — | — | 87.17 | — | — | — | — | — | 50.84 (J) | 2604.02 | 59.98 (J) | — | 859.28 | 13.48 (J) |
| MD50-19-166052 | 50-603062 | 122–122 | — | — | — | 44.64 (J) | 78.07 | 207.57 | — | — | — | 13.87 (J) | 16.64 (J) | — | — | 12.15 (J) | — | 46.09 (J) | 551.44 | 65.43 | — | 6444.58 | — |
| MD50-19-166053 | 50-603062 | 217–217 | — | — | — | 69.16 (J) | 68.31 (J) | 281.70 | — | — | — | 20.21 (J) | 20.21 (J) | — | — | 19.09 (J) | — | 44.74 (J) | 727.59 | 65.43 (J) | — | 8055.73 | — |
| MD50-19-166054 | 50-603062 | 337–337 | — | — | — | 36.47 (J) | — | 172.97 | — | — | — | — | — | — | — | — | — | — | 214.45 | — | — | 2524.13 | — |
| MD50-19-166055 | 50-603062 | 450–450 | — | — | — | — | — | 133.44 | — | — | — | — | — | — | — | — | — | — | 76.59 (J) | — | — | 912.98 | — |
| MD50-19-166056 | 50-603063 | 25–25 | — | — | — | — | 22.93 (J) | 98.84 | — | — | — | — | — | — | — | — | — | 237.24 | 1072.24 | 130.86 | — | 805.57 | 10.11 (J) |
| MD50-19-166057 | 50-603063 | 128–128 | — | — | — | 163.47 | 287.90 | 345.95 | — | — | — | 206.04 | 30.11 (J) | — | — | — | — | 1016.73 | 4288.97 | 545.26 | — | 8592.78 | 34.25 (J) |
| MD50-19-166058 | 50-603063 | 228–228 | — | — | — | 370.95 | 536.75 | 494.21 | — | 48.54 (J) | — | 289.25 | 106.98 (J) | 45.72 (J) | — | — | — | 1694.55 | 5284.63 | 599.79 | — | 22,556 | 51.66 (J) |
| MD50-19-166059 | 50-603063 | 347–347 | — | — | — | 194.91 | 190.30 | 227.34 | — | — | — | 55.47 (J) | 35.66 (J) | — | — | — | — | 576.15 | 919.07 | 65.43 (J) | — | 10,203.9 | 26.95 (J) |
| MD50-19-166060 | 50-603063 | 450–450 | — | — | — | 213.77 | 146.39 | 311.35 | — | 18.61 (J) | — | 15.06 (J) | — | — | — | — | — | 413.47 | 367.63 | — | — | 9129.83 | 30.88 (J) |
| MD50-19-166061 | 50-603064 | 113–113 | — | — | — | 150.90 (J) | 683.14 | 385.49 | — | — | — | 396.24 | 146.61 | — | 65.37 (J) | 111.09 (J) | — | 637.15 | 7658.88 | 1526.74 | — | 18,259.7 | — |
| MD50-19-166062 | 50-603064 | 214–214 | — | — | — | 314.37 | 585.55 | 691.90 | — | — | — | 594.36 | 210.01 | — | — | 381.86 (J) | — | 650.71 | 10,722.4 | 1744.85 | — | 31,148.8 | — |
| MD50-19-166063 | 50-603064 | 332–332 | — | — | — | 245.21 | 87.83 (J) | 543.63 | — | — | — | 198.12 | 38.43 (J) | — | — | 55.54 (J) | — | 264.35 | 4978.27 | 283.54 | — | 15,037.4 | 43.80 (J) |
| MD50-19-166064 | 50-603064 | 500–500 | 12.34 (J) | — | — | 75.45 | — | 256.99 | — | — | — | 10.70 (J) | — | — | — | — | 7.37 (J) | 33.21 (J) | 375.23 | — | — | 1718.56 | 18.53 (J) |
| MD50-19-166065 | 50-603383 | 26–26 | — | — | — | 138.32 | 107.35 | 232.28 | — | 10.11 (J) | — | 35.27 (J) | 14.66 (J) | 87.75 | — | — | — | 948.95 | 919.07 | 125.41 | — | 2953.77 | 35.94 (J) |
| MD50-19-166066 | 50-603383 | 139–139 | — | — | — | 238.92 | 161.03 | 252.05 | — | 21.03 (J) | — | 55.47 | 38.04 (J) | 254.01 | — | 41.66 (J) | — | 1423.42 | 995.66 | 147.22 | — | 5370.49 | 35.94 (J) |
| MD50-19-166067 | 50-603383 | 244–244 | — | — | — | 377.24 | 146.39 | 301.47 | 18.16 (J) | — | — | 63.40 | 55.47 (J) | 351 | — | 72.90 (J) | — | 1558.99 | 919.07 | 158.13 | — | 6444.58 | 41.55 (J) |
| MD50-19-166068 | 50-603383 | 359–359 | — | — | — | 289.22 | 28.30 (J) | 252.05 | — | — | — | 23.77 (J) | — | 26.79 (J) | — | — | — | 623.60 | 321.67 | 41.44 (J) | — | 2900.06 | 27.51 (J) |
| MD50-19-166069 | 50-603383 | 450–450 | — | — | — | 226.34 | - | 187.80 | — | — | — | — | — | — | — | — | — | 325.35 | 130.20 | — | — | 1611.15 | 19.09 (J) |
| MD50-19-166070 | 50-603467 | 143–143 | — | — | — | 389.81 | 419.644 | 192.74 | — | — | — | — | 91.13 | — | — | — | — | 515.14 | — | — | — | 15,037.4 | — |
| MD50-19-166071 | 50-603467 | 244–244 | — | — | — | 490.41 | 473.32 | 187.80 (J) | — | — | — | 39.23 (J) | 110.95 (J) | — | — | 100.67 (J) | — | 745.60 | 122.54 (J) | — | — | 20,407.9 | 49.41 (J) |
| MD50-19-166072 | 50-603467 | 360–360 | — | — | — | 377.24 | 214.70 | 227.34 | — | — | — | — | 55.47 (J) | — | — | — | — | 582.93 | — | — | — | 17,722.6 | — |
| MD50-19-166073 | 50-603467 | 500–500 | — | — | — | 232.63 | 40.99 (J) | 197.69 | — | — | — | — | — | — | — | — | — | 271.13 | — | — | — | 8055.73 | — |
| MD50-19-166074 | 50-603467 | 600–600 | — | — | — | 150.90 | 26.84 (J) | 138.38 | — | — | — | — | — | — | — | — | — | 176.23 | — | — | — | 4403.8 | 12.35 (J) |
| MD50-19-166075 | 50-603468 | 142–142 | — | — | — | 125.75 (J) | 234.22 | 49.42 (J) | — | — | — | — | 55.47 (J) | — | — | — | — | 305.02 | — | — | — | 12,352.1 | — |
| MD50-19-166076 | 50-603468 | 233–233 | — | — | — | 496.70 | 468.44 | 316.30 | — | — | — | — | 134.72 (J) | — | — | 347.15 (J) | — | 372.80 | — | — | — | 23,093.1 | — |

**Table 5.1-2 (continued)**

| Field Sample ID 2019 – 1st round | Location ID | Depth (ft) | Acetone | Bromodichloromethane | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2-ttetrafluoroethane[1,2] | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **116** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **5750** | **242** | **7490** | **11,700** | **580** | **na** | **665** | **136** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| MD50-19-166077 | 50-603468 | 354–354 | — | — | — | 490.41 | 268.38 | 410.20 | — | — | — | — | 106.98 (J) | — | — | 194.40 (J) | — | 372.80 | — | — | — | 21,481.9 | — |
| MD50-19-166078 | 50-603468 | 403–403 | — | — | — | 440.11 | — | 375.60 | — | — | — | — | 67.36 (J) | — | — | 173.57 (J) | — | 325.35 | — | — | — | 19,870.8 | — |
| MD50-19-166082 | 50-603470 | 83–83 | — | — | — | 213.77 | 731.94 | 138.38 | — | — | — | — | 99.06 | 22.63 (J) | — | 38.19 (J) | — | 677.82 | 206.80 | 42.53 (J) | 87.24 | 9666.88 | — |
| MD50-19-166083 | 50-603470 | 203–203 | — | — | — | 364.66 | 878.325 | 429.97 | — | — | — | — | 233.78 | — | — | 381.86 (J) | — | 562.59 | 765.89 | 87.24 (J) | — | 32,760 | — |
| MD50-19-166084 | 50-603470 | 278–278 | — | — | — | 502.98 | 780.73 | 691.90 | — | — | — | — | 237.74 | — | — | 590.15 (J) | — | 528.7 | 995.66 | 87.24 (J) | — | 40,815.7 | — |
| MD50-19-166085 | 50-603470 | 351–351 | — | — | — | 352.09 | 287.90 | 543.63 | — | — | — | — | 103.02 (J) | — | — | 288.13 (J) | — | 305.02 | 597.39 | — | — | 26,852.4 | 31.4 (J) |
| MD50-19-166086 | 50-603470 | 450–450 | — | — | — | 295.50 | 97.59 (J) | 543.63 | — | — | — | — | 30.51 (J) | — | — | 97.20 (J) | — | 183.01 | 306.36 | — | — | 18,796.7 | 39.87 (J) |
| MD50-19-166087 | 50-603470 | 650–650 | — | — | — | — | — | 49.42 (J) | — | — | — | — | — | — | — | — | — | — | — | — | — | 102.039 | — |
| MD50-19-166130 | 50-603471 | Unknown[d] | — | — | — | 943.10 | 1268.69 | 138.38 | — | — | 93.03 | 11.49 (J) | 158.50 | 60.04 (J) | — | 163.16 (J) | — | 813.38 | 229.77 | 34.89 (J) | 70.88 (J) | 13,426.2 | — |
| MD50-19-166088 | 50-603471 | 90–90 | — | — | — | 754.48 | 1219.9 | 98.84 | — | — | 72.81 | — | 110.95 | 31.87(J) | — | 59.01 (J) | — | 677.82 | 153.18 | 28.35 (J) | 45.26 (J) | 9666.88 | — |
| MD5019-166089 | 50-603471 | 209–209 | — | — | — | 628.73 | 1024.71 | 444.79 | — | — | — | — | 261.52 | 55.42 (J) | — | — | — | 1084.51 | 306.36 (J) | — | — | 44,038 | — |
| MD50-19-166090 | 50-603471 | 288–288 | — | — | — | 943.10 | 1219.9 | 543.63 | — | — | — | — | 348.69 | — | — | 1110.87 | — | 1220.08 | 559.10 | — | — | 48,334.4 | — |
| MD50-19-166091 | 50-603471 | 360–360 | — | — | — | 754.48 | 585.55 | 593.06 | — | — | — | — | 198.12(J) | — | — | 624.86 (J) | — | 948.95 | 405.92 (J) | — | — | 39,741.6 | — |
| MD50-19-166092 | 50-603471 | 450–450 | — | — | — | 471.55 | 326.93 | 444.79 | — | — | — | — | 106.98 (J) | — | — | 218.70 (J) | — | 671.04 | 137.86 (J) | — | — | 26,852.4 | 31.44 (J) |
| MD50-19-166098 | 50-603472 | 27–27 | — | — | — | 26.41 (J) | 190.30 | 29.65 (J) | — | — | — | — | 11.89 (J) | 11.55 (J) | — | — | — | 386.36 | 29.10 (J) | 32.72 (J) | — | 1987.08 | — |
| MD50-19-166099 | 50-603472 | 146–146 | — | — | — | 201.19 | 487.96 | 123.55 | — | — | 35.60 (J) | — | 95.10 | 83.13 | — | 340.20 | — | 677.82 | 107.22 | 26.72 (J) | 19.63 (J) | 10,741 | 13.48 (J) |
| MD50-19-166100 | 50-603472 | 292–292 | — | — | — | 496.70 | 536.75 | 296.53 | — | — | — | — | 150.57 (J) | 60.04 (J) | — | 659.58 (J) | — | 1762.33 | 160.84 (J) | — | — | 26,852.4 | — |
| MD50-19-166101 | 50-603472 | 364–364 | — | — | — | 484.12 | 219.58 | 365.72 | — | — | — | — | 71.32 (J) | — | — | 329.79 (J) | — | 1152.29 | 84.25 (J) | — | — | 20,407.9 | 34.81 (J) |
| MD50-19-166102 | 50-603472 | 450–450 | — | — | — | 339.51 | 78.07 (J) | 306.41 | — | — | — | — | 30.11 (J) | — | — | 107.62 (J) | — | 677.82 | 29.87 (J) | — | — | 12,352.1 | 29.76 (J) |
| MD50-19-166105 | 50-603503 | 133–133 | — | — | — | 75.45 | 107.35 | 46.46 | — | — | — | — | 13.87(J) | 30.02 (J) | — | 38.19 (J) | — | 488.03 | 130.20 | 40.89 (J) | — | 2577.83 | — |
| MD50-19-166106 | 50-603503 | 237–237 | — | — | — | 113.17 | 126.87 | 64.25 | — | — | — | — | 29.72 (J) | 36.49 (J) | — | 111.09 (J) | — | 582.93 | 71.99 | 27.81 (J) | — | 5155.67 | 8.42 (J) |
| MD50-19-166107 | 50-603503 | 347–347 | — | — | — | 132.03 | 63.43 | 84.02 | — | — | — | — | 15.06 (J) | 8.77 (J) | — | 62.49 (J) | — | 481.25 | 31.40 (J) | 16.36 (J) | — | 4779.73 | 9.55 (J) |
| MD50-19-166108 | 50-603503 | 450–450 | 66.47 (J) | — | — | 113.17 | 19.5 (J) | 69.19 | — | — | — | — | — | — | — | 26.04 (J) | — | 284.68 | — | — | — | 3114.88 | — |
| MD50-19-166103 | 50-613182 | 550–550 | — | — | — | 182.33 | 8.30 (J) | 252.05 | — | — | — | — | — | — | — | — | — | 230.46 | — | — | — | 4027.87 | 20.78 (J) |
| MD50-19-166104 | 50-613182 | 632.5–632.5 | — | 10.71 (J) | — | — | 23.42 (J) | — | — | — | — | — | — | — | — | — | — | 12.88 (J) | — | — | — | 46.19 (J) | — |
| MD50-19-166093 | 50-613183 | 550–550 | — | — | — | 194.91 | 7.81 (J) | 360.78 | — | — | — | — | — | — | — | — | — | 115.23 | — | — | — | 4672.32 | 29.76 (J) |

**Table 5.1-2 (continued)**

| Field Sample ID 2019 – 1st round | Location ID | Depth (ft) | Acetone | Bromodichloromethane | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Dichlorodifluoromethane | Dichloro-1,1,2-ttetrafluoroethane[1,2] | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | **20,300** | **116** | **478,000** | **5650** | **12,000** | **2,780,000** | **na[a]** | **5750** | **242** | **7490** | **11,700** | **580** | **na** | **665** | **136** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| MD50-19-166094 | 50-613183 | 642.5–642.5 | — | — | — | — | — | 12.85 (J) | — | — | — | — | — | — | — | — | — | — | — | — | — | 123.521 | — |
| MD50-19-166079 | 50-613184 | 500–500 | — | — | — | 169.76 | 10.25 (J) | 242.16 | — | — | — | — | — | — | — | — | — | 81.34 (J) | — | — | — | 5048.26 | 12.91 (J) |
| MD50-19-166080 | 50-613184 | 600–600 | — | — | — | 75.4476 | — | 138.38 | — | — | — | — | — | — | — | — | — | 17.62 (J) | — | — | — | 1127.8 | — |
| MD50-19-166081 | 50-613184 | 664.5–664.5 | — | — | — | 16.35 (J) | — | 29.65 (J) | — | — | — | — | — | — | — | — | — | — | — | — | — | 193.338 | — |
| MD50-19-166109 | 50-613185 | 145–145 | — | — | — | 88.02 | 92.71 | 88.96 | — | — | — | — | 16.64 (J) | — | — | 30.20 (J) | — | 81.34 | — | — | — | 3705.64 | — |
| MD50-19-166110 | 50-613185 | 235–235 | — | — | — | 150.90 | 97.59 | 143.32 | — | — | — | — | 35.27 | — | — | 65.96 (J) | — | 122.00 | — | — | — | 6981.63 | — |
| MD50-19-166111 | 50-613185 | 350–350 | — | — | — | 119.46 | 19.52 (J) | 143.32 | — | — | — | — | — | — | — | — | — | — | — | — | — | 4188.98 | — |
| MD50-19-166112 | 50-613185 | 450–450 | — | — | — | 88.02 (J) | — | 123.55 | — | — | — | — | — | — | — | — | — | 38.64 (J) | — | — | — | 1933.38 | — |
| MD50-19-166113 | 50-613185 | 600–600 | — | — | — | 27.66 (J) | — | 59.31 | — | — | — | — | — | — | — | — | — | — | — | — | — | 225.56 | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] — = Not detected.

[c] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[d] Port was not labeled with the port depth.

**Table 5.1-3**
**2019 Detected Tritium Results in**
**Pore-Gas Samples at MDA C Vapor-Monitoring Wells**

| Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) First Round | Analytical Result (pCi/L) Second Round |
|---|---|---|---|
| 50-24784 | 155 | 925 | 2077 |
| 50-24784 | 244 | 923 | 1860 |
| 50-24784 | 362 | 673 | 2318 |
| 50-24784 | 450 | 269 | 1041 |
| 50-24813 | 25 | 2800 | 636 |
| 50-24813 | 150 | 38,745 | 33,642 |
| 50-24813 | 241 | 558 | 1874 |
| 50-24813 | 358 | —[a] | 702 |
| 50-24813 | 450 | — | 573 |
| 50-24813 | 600 | — | — |
| 50-24822 | 25 | 659 | 247 |
| 50-24822 | 142 | — | 527 |
| 50-24822 | 235 | — | 387 |
| 50-24822 | 351 | 780 | — |
| 50-24822 | 450 | — | — |
| 50-603161 | 25 | — | — |
| 50-603061 | 128 | 1367 | — |
| 50-603061 | 228 | 1363 | 701 |
| 50-603061 | 347 | 1551 | 821 |
| 50-603061 | 450 | — | 257 |
| 50-603062 | 122 | — | 1594 |
| 50-603062 | 217 | — | — |
| 50-603062 | 337 | — | — |
| 50-603062 | 450 | — | 3773 |
| 50-603063 | 25 | 5360 | 331 |
| 50-603063 | 128 | 10,760 | 1311 |
| 50-603063 | 228 | 10,227 | 2420 |
| 50-603063 | 347 | 2219 | 25,875 |
| 50-603063 | 450 | 5894 | 1442 |
| 50-603064 | 113 | 281 | 113,187 |
| 50-603064 | 214 | 698 | 588 |
| 50-603064 | 332 | — | 327 |
| 50-603064 | 500 | — | — |
| 50-603383 | 26 | 68,652 | 50,560 |
| 50-603383 | 139 | 175,629 | 168,348 |

**Table 5.1-3 (continued)**

| Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) First Round | Analytical Result (pCi/L) Second Round |
|---|---|---|---|
| 50-603383 | 244 | 92,722 | 46,297 |
| 50-603383 | 359 | 107,526 | 70,424 |
| 50-603383 | 450 | 88,638 | 73,487 |
| 50-603467 | 143 | — | — |
| 50-603467 | 244 | — | 269 |
| 50-603467 | 360 | — | 369 |
| 50-603467 | 500 | — | — |
| 50-603467 | 600 | — | 538 |
| 50-603468 | 142 | — | — |
| 50-603468 | 233 | — | 306 |
| 50-603468 | 354 | — | 363 |
| 50-603468 | 403 | — | 517 |
| 50-603470 | 83 | 673,577 | 882,380 |
| 50-603470 | 203 | 420 | 823 |
| 50-603470 | 278 | 831 | 4041 |
| 50-603470 | 351 | 1757 | 633 |
| 50-603470 | 450 | — | 468 |
| 50-603470 | 650 | — | — |
| 50-603471 | Unknown[b] | 4296 | 11,825 |
| 50-603471 | 90 | 3674 | 4948 |
| 50-603471 | 209 | 2099 | 3384 |
| 50-603471 | 288 | 1915 | 4171 |
| 50-603471 | 360 | 1139 | 2344 |
| 50-603471 | 450 | 51742 | 4848 |
| 50-603472 | 27 | 135,699 | 473,917 |
| 50-603472 | 146 | 567 | 893 |
| 50-603472 | 292 | 511 | 2512 |
| 50-603472 | 364 | 427 | 1330 |
| 50-603472 | 450 | 411 | 824 |
| 50-603503 | 133 | 2562 | 827 |
| 50-603503 | 237 | 2169 | 820 |
| 50-603503 | 347 | 1205 | 300 |
| 50-603503 | 450 | 1331 | 444 |
| 50-613182 | 550 | — | 472 |
| 50-613182 | 632.5 | 727 | 492 |
| 50-613183 | 550 | — | 317 |
| 50-613183 | 642.5 | — | — |
| 50-613184 | 500 | — | — |

**Table 5.1-3 (continued)**

| Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) First Round | Analytical Result (pCi/L) Second Round |
|---|---|---|---|
| 50-613184 | 600 | — | — |
| 50-613184 | 664.5 | — | — |
| 50-613185 | 145 | — | — |
| 50-613185 | 235 | — | — |
| 50-613185 | 350 | — | — |
| 50-613185 | 450 | — | — |
| 50-613185 | 600 | — | — |

[a] — = The analyte was analyzed for but not detected.

[b] Port was not labeled with the port depth.

**Table 5.2-1**
**VOC Pore-Gas Results at MDA C for FY 2017**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Benzene | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **1140** | **5650** | **12,000** | **79,300,000** | **na[a]** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 11484 | MD50-17-146525 | 50-24813 | 25–25 | 10/27/2017 | 18.28 (J)[b] | —[c] | 427.54 | 405.01 | — | — | 59.31 | — | — | — | 19.42 (J)[c] | — | 33.90 (J) |
| 11484 | MD50-17-146526 | 50-24813 | 150–150 | 10/27/2017 | — | — | 1320.33 | 2586.18 | — | — | 395.37 | — | 109.21 | 13.08 (J) | 396.24 | 78.51 (J) | — |
| 11484 | MD50-17-146527 | 50-24813 | 241–241 | 10/27/2017 | 18.52 (J) | — | 1446.08 | 1903.04 | — | — | 889.58 | — | 32.36 (J) | 12.28 (J) | 475.48 | 50.80 | — |
| 11484 | MD50-17-146528 | 50-24813 | 358–358 | 10/27/2017 | — | — | 943.10 | 634.35 | — | — | 939.00 | — | — | — | 198.12 | — | — |
| 11484 | MD50-17-146529 | 50-24813 | 450–450 | 10/27/2017 | 33.24 (J) | — | 559.57 | 175.67 | — | — | 741.32 | — | — | — | 59.44 | — | — |
| 11484 | MD50-17-146530 | 50-24813 | 600–600 | 10/27/2017 | — | — | 163.47 | — | — | — | 345.95 | — | — | — | — | — | — |
| 11484 | MD50-17-146571 | 50-603470 | 83–83 | 10/26/2017 | 21.13 (J) | — | 188.62 | 780.73 | — | — | 123.55 | — | 21.44 (J) | 6.34 (J) | 99.06 | 29.56 (J) | 28.25 (J) |
| 11484 | MD50-17-146572 | 50-603470 | 203–203 | 10/26/2017 | 17.09 (J) | 11.813 (J) | 452.69 | 1171.1 | — | — | 593.06 | — | 19.82 (J) | 39.62 (J) | 293.21 | 43.41 (J) | — |
| 11484 | MD50-17-146573 | 50-603470 | 278–278 | 10/26/2017 | 14.48 (J) | 11.813 (J) | 465.26 | 780.73 | — | — | 691.90 | — | 6.47 (J) | 28.53 (J) | 225.86 | 19.40 (J) | 26.36 (J) |
| 11484 | MD50-17-146574 | 50-603470 | 351–351 | 10/26/2017 | — | 9.89737 (J) | 452.69 | 365.97 | — | — | 691.90 | — | — | 21.79 (J) | 114.91 | — | 15.44 (J) |
| 11484 | MD50-17-146575 | 50-603470 | 450–450 | 10/26/2017 | — | — | 276.64 | 97.59 | — | — | 593.06 | — | — | 10.70 (J) | 38.04 (J) | — | — |
| 11484 | MD50-17-146576 | 50-603470 | 650–650 | 10/26/2017 | 33.24 (J) | — | 10.69 (J) | — | — | — | 35.58 (J) | — | — | — | — | — | 64.02 (J) |
| 11484 | MD50-17-146577 | 50-603471 | 90–90 | 10/25/2017 | — | — | 433.82 | 585.55 | — | — | 44.48 (J) | — | 34.38 (J) | — | 26.94 (J) | — | 65.91 (J) |
| 11484 | MD50-17-146578 | 50-603471 | 209–209 | 10/25/2017 | — | — | 1068.84 | 1756.65 | — | — | 405.25 | — | 125.39 | — | 380.39 | 87.75 | — |
| 11484 | MD50-17-146579 | 50-603471 | 288–288 | 10/25/2017 | — | — | 817.35 | 1171.1 | — | — | 543.63 | — | 44.49 (J) | — | 289.25 | 27.71 (J) | — |
| 11484 | MD50-17-146580 | 50-603471 | 360–360 | 10/25/2017 | — | — | 880.22 | 634.35 | — | — | 691.90 | — | — | — | 213.97 | — | — |
| 11484 | MD50-17-146581 | 50-603471 | 450–450 | 10/25/2017 | — | — | 238.92 | 536.75 | — | — | 93.90 | — | — | — | 118.87 | — | — |
| 11484 | MD50-17-146583 | 50-613183 | 550–550 | 10/25/2017 | — | — | 182.33 | — | — | — | 306.41 | — | — | — | — | — | — |
| 11484 | MD50-17-146584 | 50-613183 | 642.5–642.5 | 10/25/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11484 | MD50-17-147715 | 50-603471 | Unknown[d] | 10/25/2017 | 54.60 (J) | — | 691.60 | 927.12 | — | — | 84.02 | — | 68.77 | — | 114.91 | 45.26 (J) | — |
| 11484 | MD50-17-146585 | 50-603472 | 27–27 | 10/24/2017 | — | — | 22.01 (J) | 200.06 | — | — | 18.78 (J) | — | — | — | — | — | — |
| 11484 | MD50-17-146586 | 50-603472 | 146–146 | 10/24/2017 | — | — | 169.76 | 453.80 | — | — | 103.79 | — | 40.45 | — | 87.17 | 55.42 | — |
| 11484 | MD50-17-146587 | 50-603472 | 292–292 | 10/24/2017 | — | — | 370.95 | 536.75 | — | — | 202.63 | — | — | — | 138.68 | 26.32 (J) | — |
| 11484 | MD50-17-146588 | 50-603472 | 364–364 | 10/24/2017 | — | — | 364.66 | 161.03 | — | — | 296.53 | — | — | — | 47.55 | — | — |
| 11484 | MD50-17-146589 | 50-603472 | 450–450 | 10/24/2017 | — | — | 213.77 | 63.43 | — | — | 158.15 | — | — | — | — | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Benzene | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **1140** | **5650** | **12,000** | **79,300,000** | **na[a]** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 11484 | MD50-17-146590 | 50-613182 | 550–550 | 10/24/2017 | — | — | 201.19 | — | — | — | 187.80 | — | — | — | — | — | — |
| 11484 | MD50-17-146591 | 50-613182 | 632.5–632.5 | 10/24/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11484 | MD50-17-146521 | 50-24784 | 155–155 | 10/23/2017 | 40.36 (J) | — | 106.88 | 190.30 | 13.07 (J) | — | 49.42 (J) | — | — | — | — | 44.34 (J) | 79.09 (J) |
| 11484 | MD50-17-146522 | 50-24784 | 244–244 | 10/23/2017 | — | — | 150.40 | 87.83 | — | — | 64.25 | — | — | — | 9.91 (J) | 29.10 (J) | — |
| 11484 | MD50-17-146523 | 50-24784 | 362–362 | 10/23/2017 | — | — | 402.39 | 32.20 (J) | — | — | 177.92 | — | — | — | — | — | — |
| 11484 | MD50-17-146524 | 50-24784 | 450–450 | 10/23/2017 | — | — | 320.65 | — | — | — | 172.97 | — | — | — | — | — | — |
| 11484 | MD50-17-146564 | 50-603468 | 142–142 | 10/20/2017 | — | — | 308.08 | 395.25 | — | — | 237.22 | — | — | — | 87.17 | — | — |
| 11484 | MD50-17-146565 | 50-603468 | 233–233 | 10/20/2017 | — | 6.07 (J) | 591.01 | 634.35 | — | — | 415.14 | — | — | — | 166.42 | 12.93 (J) | — |
| 11484 | MD50-17-146566 | 50-603468 | 354–354 | 10/20/2017 | — | 8.62 (J) | 603.58 | 458.68 | — | — | 494.21 | — | — | — | 126.80 | 11.08 (J) | — |
| 11484 | MD50-17-146567 | 50-603468 | 403–403 | 10/20/2017 | — | 8.62 (J) | 603.58 | 307.41 | — | — | 543.63 | — | — | — | 95.10 | — | — |
| 11484 | MD50-17-146568 | 50-613184 | 500–500 | 10/20/2017 | — | — | 220.06 | 11.71 (J) | — | — | 266.88 | — | — | — | — | — | — |
| 11484 | MD50-17-146569 | 50-613184 | 600–600 | 10/20/2017 | — | — | 75.45 (J) | — | — | — | 153.21 | — | — | — | — | — | — |
| 11484 | MD50-17-146570 | 50-613184 | 664.5–664.5 | 10/20/2017 | — | — | 19.49 (J) | — | — | — | 37.07 (J) | — | — | — | — | — | — |
| 11484 | MD50-17-146531 | 50-24822 | 25–25 | 10/19/2017 | — | — | 69.16 | 248.86 | — | — | 98.84 | — | — | — | 8.72 (J) | — | — |
| 11484 | MD50-17-146532 | 50-24822 | 142–142 | 10/19/2017 | 23.74 (J) | 5.11 (J) | 213.77 | 487.96 | — | — | 321.24 | — | — | — | 99.06 | 11.55 (J) | 41.43 (J) |
| 11484 | MD50-17-146533 | 50-24822 | 235–235 | 10/19/2017 | — | — | 364.66 | 585.55 | — | — | 642.48 | — | — | — | 142.65 | — | — |
| 11484 | MD50-17-146534 | 50-24822 | 351–351 | 10/19/2017 | — | 13.09 (J) | 540.71 | 780.73 | — | — | 939.00 | — | — | 9.51 (J) | 202.08 | 10.16 (J) | — |
| 11484 | MD50-17-146535 | 50-24822 | 450–450 | 10/19/2017 | — | — | 182.33 | 107.35 | — | — | 345.95 | — | — | — | 26.94 (J) | — | — |
| 11484 | MD50-17-146545 | 50-603063 | 25–25 | 10/18/2017 | 54.60 (J) | — | — | 7.81 (J) | — | — | — | — | — | — | — | — | 109.22 |
| 11484 | MD50-17-146546 | 50-603063 | 128–128 | 10/18/2017 | 30.86 (J) | — | 23.89 (J) | 24.89 (J) | — | — | 88.96 | — | — | 6.34 (J) | — | — | 65.91 (J) |
| 11484 | MD50-17-146547 | 50-603063 | 228–228 | 10/18/2017 | 68.85 (J) | — | 176.04 | 302.53 | — | — | 326.18 | 68.7 | — | 241.70 | 32.49 (J) | 18.01 (J) | 92.27 |
| 11484 | MD50-17-146548 | 50-603063 | 347–347 | 10/18/2017 | — | — | 427.54 | 634.35 | — | 15.37 (J) | 494.21 | 72.81 | — | 372.46 | 134.72 | 60.04 | — |
| 11484 | MD50-17-146549 | 50-603063 | 450–450 | 10/18/2017 | — | — | 352.09 | 331.81 | — | — | 355.83 | 31.15 (J) | — | 79.25 | 63.40 | 21.24 (J) | — |
| 11484 | MD50-17-146536 | 50-603061 | 25–25 | 10/17/2017 | — | — | 10.69 (J) | 15.61 (J) | — | — | 385.45 | — | — | 174.34 | — | — | — |
| 11484 | MD50-17-146537 | 50-603061 | 128–128 | 10/17/2017 | — | — | 75.45 (J) | 68.31 | — | — | 306.41 | 23.87 (J) | — | 1386.83 | — | — | — |
| 11484 | MD50-17-146538 | 50-603061 | 228–228 | 10/17/2017 | 54.60 (J) | — | 100.60 | 47.82 | — | — | 207.57 | 14.97 (J) | — | 1030.21 | 11.09 (J) | — | — |
| 11484 | MD50-17-146539 | 50-603061 | 347–347 | 10/17/2017 | — | — | 125.75 | 11.71 (J) | — | — | 222.40 | — | — | 336.80 | — | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Benzene | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **1140** | **5650** | **12,000** | **79,300,000** | **na[a]** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 11484 | MD50-17-146540 | 50-603061 | 450–450 | 10/17/2017 | — | — | 62.87 (J) | — | — | — | 148.26 | — | — | 103.02 | — | — | — |
| 11484 | MD50-17-146554 | 50-603383 | 26–26 | 10/16/2017 | — | — | — | — | — | — | 32.12 (J) | — | — | — | — | — | — |
| 11484 | MD50-17-146555 | 50-603383 | 139–139 | 10/16/2017 | — | — | 169.76 | 204.94 | — | — | 212.51 | — | — | 55.47 | 35.66 (J) | 198.59 | — |
| 11484 | MD50-17-146556 | 50-603383 | 244–244 | 10/16/2017 | — | — | 333.20 | 180.55 | — | — | 281.70 | — | — | 59.44 | 43.60 | 411.04 | — |
| 11484 | MD50-17-146557 | 50-603383 | 359–359 | 10/16/2017 | — | — | 264.07 | 46.84 (J) | — | — | 192.74 | — | — | — | 16.25 (J) | 37.87 (J) | — |
| 11484 | MD50-17-146558 | 50-603383 | 450–450 | 10/16/2017 | — | — | 220.06 | — | — | — | 232.28 | — | — | — | — | — | — |
| 11484 | MD50-17-146596 | 50-613185 | 145–145 | 10/06/2017 | — | — | 100.60 | 107.35 | — | — | 88.96 | — | — | — | 15.06 (J) | — | — |
| 11484 | MD50-17-146597 | 50-613185 | 235–235 | 10/06/2017 | — | — | 163.47 | 107.35 | — | — | 153.21 | — | — | — | 32.49 (J) | — | — |
| 11484 | MD50-17-146598 | 50-613185 | 350–350 | 10/06/2017 | — | — | 132.03 | 19.52 (J) | — | — | 148.26 | — | — | — | — | — | — |
| 11484 | MD50-17-146599 | 50-613185 | 450–450 | 10/06/2017 | 23.74 (J) | — | 88.02 | — | — | — | 118.61 | — | — | — | — | — | — |
| 11484 | MD50-17-146600 | 50-613185 | 600–600 | 10/06/2017 | — | — | 27.66 (J) | — | — | — | 59.31 (J) | — | — | — | — | — | — |
| 11484 | MD50-17-146592 | 50-603503 | 133–133 | 10/05/2017 | — | — | 53.44 (J) | 82.95 | — | — | 20.26 (J) | — | — | — | 19.81 (J) | 37.41 (J) | — |
| 11484 | MD50-17-146593 | 50-603503 | 237–237 | 10/05/2017 | — | — | 119.46 | 156.15 | — | — | 59.31 | — | — | — | 32.10 (J) | 36.02 (J) | — |
| 11484 | MD50-17-146594 | 50-603503 | 347–347 | 10/05/2017 | — | — | 113.17 | 78.07 | — | — | 74.13 | — | — | — | — | — | — |
| 11484 | MD50-17-146595 | 50-603503 | 450–450 | 10/05/2017 | — | — | 100.60 | 31.72 (J) | — | — | 54.36 (J) | — | — | — | — | — | — |
| 11484 | MD50-17-146559 | 50-603467 | 143–143 | 10/04/2017 | — | — | 352.09 | 487.96 | — | — | 158.15 | — | — | — | 91.13 | — | — |
| 11484 | MD50-17-146560 | 50-603467 | 244–244 | 10/04/2017 | — | — | 628.73 | 731.94 | — | — | 276.76 | — | — | — | 194.16 | 29.10 (J) | — |
| 11484 | MD50-17-146561 | 50-603467 | 360–360 | 10/04/2017 | — | — | 502.98 | 346.45 | — | — | 168.03 | — | — | — | 95.10 | — | — |
| 11484 | MD50-17-146562 | 50-603467 | 500–500 | 10/04/2017 | — | — | 314.37 | 68.31 | — | — | 197.69 | — | — | — | — | — | — |
| 11484 | MD50-17-146563 | 50-603467 | 600–600 | 10/04/2017 | — | — | 150.90 | 33.18 (J) | — | — | 138.38 | — | — | — | — | — | — |
| 11484 | MD50-17-146541 | 50-603062 | 122–122 | 10/03/2017 | — | — | 42.75 (J) | 68.31 | — | — | 153.21 | — | — | 10.70 (J) | 10.70 (J) | — | — |
| 11484 | MD50-17-146542 | 50-603062 | 217–217 | 10/03/2017 | — | — | 69.16 (J) | 63.43 | — | — | 232.28 | — | — | 19.81 (J) | 15.45 (J) | — | — |
| 11484 | MD50-17-146543 | 50-603062 | 337–337 | 10/03/2017 | — | — | 49.67 (J) | 11.22 (J) | — | — | 168.03 | — | — | — | — | — | — |
| 11484 | MD50-17-146544 | 50-603062 | 450–450 | 10/03/2017 | — | — | 23.89 (J) | — | — | — | 108.73 | — | — | — | — | — | — |
| 11484 | MD50-17-146550 | 50-603064 | 113–113 | 10/02/2017 | — | — | 213.77 | 878.33 | — | — | 380.50 | — | 8.50 (J) | 554.73 | 213.97 | 45.72 (J) | — |
| 11484 | MD50-17-146551 | 50-603064 | 214–214 | 10/02/2017 | — | — | 370.95 | 683.14 | — | — | 642.48 | — | — | 792.47 | 241.70 | 33.25 (J) | — |
| 11484 | MD50-17-146552 | 50-603064 | 332–332 | 10/02/2017 | — | — | 264.07 | 92.71 | — | — | 494.21 | — | — | 206.04 | 39.62 (J) | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Benzene | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **1140** | **5650** | **12,000** | **79,300,000** | **na[a]** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 11484 | MD50-17-146553 | 50-603064 | 500–500 | 10/02/2017 | 15.67 (J) | — | 81.73 | — | — | — | 227.30 | — | — | 8.72 (J) | — | — | — |
| 11194 | MD50-17-131726 | 50-613185 | 145–145 | 04/21/2017 | — | — | 100.60 | 102.47 | — | — | 88.96 | — | — | — | — | — | — |
| 11194 | MD50-17-131727 | 50-613185 | 235–235 | 04/21/2017 | — | — | 169.76 | 92.71 | — | — | 172.97 | — | — | — | 39.62 | — | — |
| 11194 | MD50-17-131728 | 50-613185 | 350–350 | 04/21/2017 | — | — | 119.46 | — | — | — | 138.38 | — | — | — | — | — | — |
| 11194 | MD50-17-131729 | 50-613185 | 450–450 | 04/21/2017 | — | — | 88.02 | — | — | — | 103.79 | — | — | — | — | — | — |
| 11194 | MD50-17-131730 | 50-613185 | 600–600 | 04/21/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131722 | 50-603503 | 133–133 | 04/20/2017 | — | — | 69.16 | 102.41 | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131723 | 50-603503 | 237–237 | 04/20/2017 | — | — | 132.03 | 136.63 | — | — | 74.13 | — | — | — | — | — | — |
| 11194 | MD50-17-131724 | 50-603503 | 347–347 | 04/20/2017 | — | — | 119.459 | 68.31 | — | — | 84.02 | — | — | — | — | — | — |
| 11194 | MD50-17-131725 | 50-603503 | 450–450 | 04/20/2017 | — | — | 100.60 | — | — | — | 74.13 | — | — | — | — | — | — |
| 11194 | MD50-17-131690 | 50-603467 | 143–143 | 04/19/2017 | — | — | 345.80 | 487.96 | — | — | 148.26 | — | — | — | 95.10 | — | — |
| 11194 | MD50-17-131691 | 50-603467 | 244–244 | 04/19/2017 | — | — | 628.73 | 683.14 | — | — | 311.35 | — | — | — | 170.38 | — | — |
| 11194 | MD50-17-131692 | 50-603467 | 360–360 | 04/19/2017 | — | — | 540.71 | 390.37 | — | — | 276.76 | — | — | — | 126.80 | — | — |
| 11194 | MD50-17-131693 | 50-603467 | 500–500 | 04/19/2017 | — | — | 264.07 | — | — | — | 177.92 | — | — | — | — | — | — |
| 11194 | MD50-17-131694 | 50-603467 | 600–600 | 04/19/2017 | — | — | 169.76 | — | — | — | 153.21 | — | — | — | — | — | — |
| 11194 | MD50-17-131695 | 50-603468 | 142–142 | 04/18/2017 | — | — | 207.48 | 341.57 | — | — | 108.73 | — | — | — | 75.28 | — | — |
| 11194 | MD50-17-131696 | 50-603468 | 233–233 | 04/18/2017 | — | — | 584.72 | 585.55 | — | — | 395.37 | — | — | — | 202.08 | — | — |
| 11194 | MD50-17-131697 | 50-603468 | 354–354 | 04/18/2017 | — | — | 628.73 | 405.01 | — | — | 543.63 | — | — | — | 166.42 | — | — |
| 11194 | MD50-17-131698 | 50-603468 | 403–403 | 04/18/2017 | — | — | 540.71 | 253.74 | — | — | 484.33 | — | — | — | 103.02 | — | — |
| 11194 | MD50-17-131699 | 50-613184 | 500–500 | 04/18/2017 | — | — | 213.77 | — | — | — | 252.05 | — | — | — | — | — | — |
| 11194 | MD50-17-131700 | 50-613184 | 600–600 | 04/18/2017 | — | — | 75.45 | — | — | — | 128.50 | — | — | — | — | — | — |
| 11194 | MD50-17-131701 | 50-613184 | 664.5–664.5 | 04/18/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131662 | 50-24822 | 25–25 | 04/17/2017 | — | — | — | 107.35 | — | — | 54.36 | — | — | — | — | — | — |
| 11194 | MD50-17-131663 | 50-24822 | 142–142 | 04/17/2017 | — | — | 88.02 | 229.34 | — | — | 153.21 | — | — | — | 51.51 | — | — |
| 11194 | MD50-17-131664 | 50-24822 | 235–235 | 04/17/2017 | — | — | 113.17 | 151.27 | — | — | 197.69 | — | — | — | 47.55 | — | — |
| 11194 | MD50-17-131665 | 50-24822 | 351–351 | 04/17/2017 | — | — | 150.90 | 92.71 | — | — | 306.41 | — | — | — | — | — | — |
| 11194 | MD50-17-131666 | 50-24822 | 450–450 | 04/17/2017 | — | — | 125.75 | — | — | — | 276.76 | — | — | — | — | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Benzene | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **1140** | **5650** | **12,000** | **79,300,000** | **na[a]** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 11194 | MD50-17-131672 | 50-603062 | 122–122 | 04/14/2017 | — | — | — | 73.19 | — | — | 172.97 | — | — | — | — | — | — |
| 11194 | MD50-17-131673 | 50-603062 | 217–217 | 04/14/2017 | — | — | 62.24 | 58.56 | — | — | 217.45 | — | — | — | — | — | — |
| 11194 | MD50-17-131674 | 50-603062 | 337–337 | 04/14/2017 | — | — | — | — | — | — | 133.44 | — | — | — | — | — | — |
| 11194 | MD50-17-131675 | 50-603062 | 450–450 | 04/14/2017 | — | — | — | — | — | — | 103.79 | — | — | — | — | — | — |
| 11194 | MD50-17-131681 | 50-603064 | 113–113 | 04/13/2017 | — | — | 207.48 | 878.33 | — | — | 410.20 | — | — | 554.73 | 213.97 | 43.41 | — |
| 11194 | MD50-17-131682 | 50-603064 | 214–214 | 04/13/2017 | — | — | 345.80 | 683.14 | — | — | 691.90 | — | — | 713.23 | 229.82 | — | — |
| 11194 | MD50-17-131683 | 50-603064 | 332–332 | 04/13/2017 | — | — | 238.92 | 87.83 | — | — | 494.21 | — | — | 194.16 | — | — | — |
| 11194 | MD50-17-131684 | 50-603064 | 500–500 | 04/13/2017 | — | — | 81.73 | — | — | — | 232.28 | — | — | — | — | — | — |
| 11194 | MD50-17-131667 | 50-603061 | 25–25 | 04/12/2017 | — | — | — | — | — | — | 365.72 | — | — | 217.93 | — | — | — |
| 11194 | MD50-17-131668 | 50-603061 | 128–128 | 04/12/2017 | — | — | 75.45 | 73.20 | — | — | 350.89 | — | — | 1584.95 | — | — | — |
| 11194 | MD50-17-131669 | 50-603061 | 228–228 | 04/12/2017 | — | — | 94.31 | — | — | — | 222.40 | — | — | 1109.46 | — | — | — |
| 11194 | MD50-17-131670 | 50-603061 | 347–347 | 04/12/2017 | — | — | 119.46 | — | — | — | 227.40 | — | — | 344.73 | — | — | — |
| 11194 | MD50-17-131671 | 50-603061 | 450–450 | 04/12/2017 | — | — | 69.16 | — | — | — | 143.32 | — | — | 95.10 | — | — | — |
| 11194 | MD50-17-131676 | 50-603063 | 25–25 | 04/11/2017 | — | — | — | — | — | — | 138.38 | — | — | — | — | — | — |
| 11194 | MD50-17-131677 | 50-603063 | 128–128 | 04/11/2017 | — | — | 188.62 | 336.69 | — | — | 365.72 | 76.85 | — | 261.52 | 38.43 | — | — |
| 11194 | MD50-17-131678 | 50-603063 | 228–228 | 04/11/2017 | — | — | 402.39 | 634.35 | — | — | 494.21 | 68.76 | — | 364.54 | 134.72 | 50.80 | — |
| 11194 | MD50-17-131679 | 50-603063 | 347–347 | 04/11/2017 | — | — | 333.23 | 326.93 | — | — | 355.83 | — | — | 87.17 | 47.55 | — | — |
| 11194 | MD50-17-131680 | 50-603063 | 450–450 | 04/11/2017 | — | — | 213.77 | 175.67 | — | — | 261.93 | — | — | — | — | — | — |
| 11194 | MD50-17-131685 | 50-603383 | 26–26 | 04/10/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131686 | 50-603383 | 139–139 | 04/10/2017 | — | — | 238.92 | 185.42 | — | — | 252.05 | — | — | 63.40 | — | 267.87 | — |
| 11194 | MD50-17-131687 | 50-603383 | 244–244 | 04/10/2017 | — | — | 427.54 | 195.18 | — | — | 326.18 | — | — | 71.32 | 67.36 | 424.89 | — |
| 11194 | MD50-17-131688 | 50-603383 | 359–359 | 04/10/2017 | — | — | 295.50 | — | — | — | 247.11 | — | — | — | — | — | — |
| 11194 | MD50-17-131689 | 50-603383 | 450–450 | 04/10/2017 | — | — | 264.07 | — | — | — | 227.34 | — | — | — | — | — | — |
| 11194 | MD50-17-131656 | 50-24813 | 25–25 | 04/07/2017 | — | — | 1005.97 | 927.12 | — | — | 163.09 | — | — | — | 47.55 | — | — |
| 11194 | MD50-17-131657 | 50-24813 | 150–150 | 04/07/2017 | — | — | 1446.08 | 2830.16 | — | — | 474.44 | — | 105.17 | — | 515.11 | 73.89 | — |
| 11194 | MD50-17-131658 | 50-24813 | 241–241 | 04/07/2017 | — | — | 1697.57 | 2244.61 | — | — | 1087.27 | — | — | — | 633.98 | 50.80 | — |
| 11194 | MD50-17-131659 | 50-24813 | 358–358 | 04/07/2017 | — | — | 943.10 | 683.14 | — | — | 988.43 | — | — | — | 225.86 | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Benzene | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichloro-1,1,2,2-tetrafluoroethane[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **1140** | **5650** | **12,000** | **79,300,000** | **na[a]** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 11194 | MD50-17-131660 | 50-24813 | 450–450 | 04/07/2017 | — | — | 565.86 | 185.42 | — | — | 741.32 | — | — | — | 63.40 | — | — |
| 11194 | MD50-17-131661 | 50-24813 | 600–600 | 04/07/2017 | — | — | 163.47 | — | — | — | 326.18 | — | — | — | — | — | — |
| 11194 | MD50-17-131702 | 50-603470 | 83–83 | 04/06/2017 | — | — | 163.47 | 927.12 | — | — | 88.96 | — | — | — | 126.80 | — | — |
| 11194 | MD50-17-131703 | 50-603470 | 203–203 | 04/06/2017 | — | — | 477.84 | 1219.90 | — | — | 691.90 | — | — | 43.60 | 320.96 | 42.95 | — |
| 11194 | MD50-17-131704 | 50-603470 | 278–278 | 04/06/2017 | — | — | 565.86 | 927.12 | 82.56 | — | 840.16 | — | — | — | 297.18 | — | — |
| 11194 | MD50-17-131705 | 50-603470 | 351–351 | 04/06/2017 | — | — | 446.40 | 400.13 | — | — | 790.74 | — | — | — | 134.72 | — | — |
| 11194 | MD50-17-131706 | 50-603470 | 450–450 | 04/06/2017 | — | — | 182.33 | 68.31 | — | — | 375.60 | — | — | — | — | — | — |
| 11194 | MD50-17-131707 | 50-603470 | 650–650 | 04/06/2017 | — | — | — | — | — | — | 54.36 | — | — | — | — | — | — |
| 11194 | MD50-17-131708 | 50-603471 | 90–90 | 04/05/2017 | — | — | 578.43 | 1024.71 | 9.29 (J) | — | 88.96 | — | 56.63 | — | 79.25 | — | — |
| 11194 | MD50-17-131709 | 50-603471 | 209–209 | 04/05/2017 | — | — | 213.77 | 1024.71 | — | — | — | — | 52.58 | — | 221.89 | — | — |
| 11194 | MD50-17-131710 | 50-603471 | 288–288 | 04/05/2017 | — | — | 1194.59 | 1561.47 | — | — | 790.74 | — | 48.54 | — | 475.48 | 64.66 | — |
| 11194 | MD50-17-131711 | 50-603471 | 360–360 | 04/05/2017 | — | — | 880.22 | 731.94 | — | — | 741.32 | — | — | — | 233.78 | — | — |
| 11194 | MD50-17-131712 | 50-603471 | 450–450 | 04/05/2017 | — | — | 484.12 | 405.01 | — | — | 474.44 | — | — | — | 122.83 | — | — |
| 11194 | MD50-17-131713 | 50-613183 | 550–550 | 04/05/2017 | — | — | 226.34 | — | — | — | 395.37 | — | — | — | — | — | — |
| 11194 | MD50-17-131714 | 50-613183 | 642.5–642.5 | 04/05/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131715 | 50-603472 | 27–27 | 04/05/2017 | — | — | — | 243.98 | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131721 | 50-613182 | 632.5–632.5 | 04/05/2017 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11194 | MD50-17-131731 | 50-603471 | Unknown[d] | 04/05/2017 | — | — | 1131.71 | 1610.26 | — | — | 177.92 | — | 109.21 | — | 186.23 | 69.28 | — |
| 11194 | MD50-17-131716 | 50-603472 | 146–146 | 04/04/2017 | — | — | 276.64 | 634.35 | — | — | 168.03 | — | 48.54 | — | 122.83 | 101.61 | — |
| 11194 | MD50-17-131717 | 50-603472 | 292–292 | 04/04/2017 | — | — | 591.01 | 731.94 | — | — | 390.43 | — | — | — | 194.16 | 69.28 | — |
| 11194 | MD50-17-131718 | 50-603472 | 364–364 | 04/04/2017 | — | — | 509.27 | 248.86 | — | — | 415.14 | — | — | — | 71.32 | — | — |
| 11194 | MD50-17-131719 | 50-603472 | 450–450 | 04/04/2017 | — | — | 270.35 | 58.56 | — | — | 252.05 | — | — | — | — | — | — |
| 11194 | MD50-17-131720 | 50-613182 | 550–550 | 04/04/2017 | — | — | 125.75 | — | — | — | 168.03 | — | — | — | — | — | — |
| 11194 | MD50-17-131652 | 50-24784 | 155–155 | 04/03/2017 | — | — | 201.19 | 346.45 | — | — | 98.84 | — | — | — | — | 78.51 | — |
| 11194 | MD50-17-131653 | 50-24784 | 244–244 | 04/03/2017 | — | — | 320.65 | 151.27 | — | — | 143.32 | — | — | — | — | 55.42 | — |
| 11194 | MD50-17-131654 | 50-24784 | 362–362 | 04/03/2017 | — | — | 408.68 | — | — | — | 192.74 | — | — | — | — | — | — |
| 11194 | MD50-17-131655 | 50-24784 | 450–450 | 04/03/2017 | — | — | 314.37 | — | — | — | 168.03 | — | — | — | — | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Styrene | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **145** | **665** | **na** | **470** | **na** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 11484 | MD50-17-146525 | 50-24813 | 25–25 | 10/27/2017 | — | — | 17.36 (J) | — | — | — | 189.79 | — | — | — | 12.00 (J) | 4779.73 | 4.72 (J) | 6.94 (J) |
| 11484 | MD50-17-146526 | 50-24813 | 150–150 | 10/27/2017 | — | — | 381.86 | — | — | — | 610.04 | — | 39.06 (J) | — | 201.75 | 41,889.8 | 19.09 (J) | — |
| 11484 | MD50-17-146527 | 50-24813 | 241–241 | 10/27/2017 | — | — | 590.15 | — | — | — | 881.17 | — | 84.25 (J) | 17.45 (J) | 22.9011 (J) | 75,186.8 | 37.06 (J) | — |
| 11484 | MD50-17-146528 | 50-24813 | 358–358 | 10/27/2017 | — | — | 48.60 (J) | — | — | — | 630.373 | — | 58.21 (J) | 9.82 (J) | — | 64,445.8 | 52.22 (J) | — |
| 11484 | MD50-17-146529 | 50-24813 | 450–450 | 10/27/2017 | — | — | 166.63 (J) | — | — | — | 338.91 | — | 19.91 (J) | — | — | 33,297 | 46.61 (J) | — |
| 11484 | MD50-17-146530 | 50-24813 | 600–600 | 10/27/2017 | — | — | — | — | — | — | 74.56 (J) | — | — | — | — | 4779.73 | 21.34 (J) | — |
| 11484 | MD50-17-146571 | 50-603470 | 83–83 | 10/26/2017 | 126.81 | — | 45.13 (J) | 7.37 (J) | — | — | 643.93 | — | 168.50 | 37.62 (J) | 92.70 | 10,741 | — | — |
| 11484 | MD50-17-146572 | 50-603470 | 203–203 | 10/26/2017 | — | — | 624.86 | — | — | — | 623.60 | — | 842.48 | 119.96 | 19.08 (J) | 47,260.3 | 37.06 (J) | — |
| 11484 | MD50-17-146573 | 50-603470 | 278–278 | 10/26/2017 | — | — | 659.58 | — | — | — | 488.03 | — | 758.23 | 87.24 | — | 49,408.5 | 42.67 (J) | — |
| 11484 | MD50-17-146574 | 50-603470 | 351–351 | 10/26/2017 | — | — | 381.86 | — | — | — | 318.58 | — | 605.05 | 36.53 (J) | — | 41,889.8 | 47.73 (J) | — |
| 11484 | MD50-17-146575 | 50-603470 | 450–450 | 10/26/2017 | — | — | 104.14 (J) | — | — | — | 162.68 | — | 283.38 | 11.45 (J) | — | 22.56 | 37.62 (J) | — |
| 11484 | MD50-17-146576 | 50-603470 | 650–650 | 10/26/2017 | — | — | 22.91 (J) | — | — | — | — | — | — | — | — | 75.19 | — | 6.94 (J) |
| 11484 | MD50-17-146577 | 50-603471 | 90–90 | 10/25/2017 | 634.06 | — | 31.24 (J) | — | — | — | 311.80 | — | 75.82 | — | — | 3813.05 | — | — |
| 11484 | MD50-17-146578 | 50-603471 | 209–209 | 10/25/2017 | — | — | 1076.15 | — | — | — | 948.95 | — | 490.17 | 87.2423 | — | 39,741.6 | 38.18 (J) | — |
| 11484 | MD50-17-146579 | 50-603471 | 288–288 | 10/25/2017 | 422.71 | — | 1041.44 | — | — | — | 745.60 | — | 474.85 | 40.89 (J) | — | 35,982.3 | 47.73 (J) | — |
| 11484 | MD50-17-146580 | 50-603471 | 360–360 | 10/25/2017 | — | — | 763.72 | — | — | — | 948.95 | — | 329.33 | 26.17 (J) | — | 45,649.1 | 56.15 (J) | — |
| 11484 | MD50-17-146581 | 50-603471 | 450–450 | 10/25/2017 | 200.79 | — | — | — | — | — | 569.37 | — | 76.59 (J) | — | — | 19,870.8 | — | — |
| 11484 | MD50-17-146583 | 50-613183 | 550–550 | 10/25/2017 | — | — | — | — | — | — | 122.01 | — | — | — | — | 4511.21 | 33.69 (J) | — |
| 11484 | MD50-17-146584 | 50-613183 | 642.5–642.5 | 10/25/2017 | — | — | — | — | — | — | — | — | — | — | — | 112.78 | — | — |
| 11484 | MD50-17-147715 | 50-603471 | Unknown[d] | 10/25/2017 | 387.48 | — | 111.09 (J) | — | — | — | 488.03 | — | 176.15 | 26.17 (J) | — | 9129.83 | — | — |
| 11484 | MD50-17-146585 | 50-603472 | 27–27 | 10/24/2017 | — | — | — | — | — | — | 386.36 | — | 38.29 (J) | 37.08 (J) | — | 1772.26 | — | — |
| 11484 | MD50-17-146586 | 50-603472 | 146–146 | 10/24/2017 | — | — | 274.25 | — | — | — | 813.38 | — | 68.16 (J) | 26.7 (J) | — | 10,74 | 12.91 (J) | — |
| 11484 | MD50-17-146587 | 50-603472 | 292–292 | 10/24/2017 | — | — | 624.86 | — | — | — | 1084.51 | — | 73.53(J) | 15.27 (J) | — | 20,944.9 | 26.4 (J) | — |
| 11484 | MD50-17-146588 | 50-603472 | 364–364 | 10/24/2017 | 35.23 | — | 270.77 | — | — | — | 881.17 | — | 84.25 | — | — | 17,185.6 | 28.64 (J) | — |
| 11484 | MD50-17-146589 | 50-603472 | 450–450 | 10/24/2017 | — | — | 65.96 (J) | — | — | — | 447.36 | — | — | — | — | 8055.73 | 17.97 (J) | — |
| 11484 | MD50-17-146590 | 50-613182 | 550–550 | 10/24/2017 | — | — | — | — | — | — | 216.90 | — | — | — | — | 4135.27 | 22.46 (J) | — |
| 11484 | MD50-17-146591 | 50-613182 | 632.5–632.5 | 10/24/2017 | 348.73 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11484 | MD50-17-146521 | 50-24784 | 155–155 | 10/23/2017 | 598.83 | — | 25.69 (J) | 35.63 (J) | — | — | 1287.86 | — | 91.91 | 22.90 (J) | — | 2201.9 | 6.18 (J) | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Styrene | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **145** | **665** | **na** | **470** | **na** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 11484 | MD50-17-146522 | 50-24784 | 244–244 | 10/23/2017 | — | — | — | — | — | — | 1152.29 | — | 59.74 (J) | 20.72 (J) | — | 2577.83 | 11.79 (J) | — |
| 11484 | MD50-17-146523 | 50-24784 | 362–362 | 10/23/2017 | — | — | — | — | — | — | 1558.99 | — | 68.93 (J) | 16.90 (J) | — | 3544.52 | 21.34 (J) | — |
| 11484 | MD50-17-146524 | 50-24784 | 450–450 | 10/23/2017 | — | — | — | — | — | — | 657.49 | — | 18.38 (J) | — | — | 1503.74 | 17.97 (J) | — |
| 11484 | MD50-17-146564 | 50-603468 | 142–142 | 10/20/2017 | — | — | 52.07 (J) | — | — | — | 237.24 | — | — | — | — | 15,574.4 | 11.23 (J) | — |
| 11484 | MD50-17-146565 | 50-603468 | 233–233 | 10/20/2017 | — | — | 555.43 | — | — | — | 474.47 | — | — | — | — | 34,371.1 | 19.65 (J) | — |
| 11484 | MD50-17-146566 | 50-603468 | 354–354 | 10/20/2017 | — | — | 347.15 | — | — | — | 467.70 | — | — | — | — | 35,445.2 | 23.58 (J) | — |
| 11484 | MD50-17-146567 | 50-603468 | 403–403 | 10/20/2017 | — | — | 270.77 | — | — | — | 433.81 | — | — | — | — | 32,760 | 29.20 (J) | — |
| 11484 | MD50-17-146568 | 50-613184 | 500–500 | 10/20/2017 | — | — | — | — | — | — | 101.67 | — | — | — | — | 6981.63 | 14.04 (J) | — |
| 11484 | MD50-17-146569 | 50-613184 | 600–600 | 10/20/2017 | — | — | — | — | — | — | 18.30 (J) | — | — | — | — | 1342.62 | — | — |
| 11484 | MD50-17-146570 | 50-613184 | 664.5–664.5 | 10/20/2017 | — | — | — | — | — | — | 10.85 (J) | — | — | — | — | 247.042 | — | — |
| 11484 | MD50-17-146531 | 50-24822 | 25–25 | 10/19/2017 | — | — | — | — | — | — | 135.56 | — | 49.02 (J) | 15.81 (J) | — | 6444.58 | — | — |
| 11484 | MD50-17-146532 | 50-24822 | 142–142 | 10/19/2017 | — | — | 163.16 | — | — | — | 176.23 | 37.66 | 137.86 | 29.44 (J) | 12.54 (J) | 20,407.9 | 13.48(J) | — |
| 11484 | MD50-17-146533 | 50-24822 | 235–235 | 10/19/2017 | — | — | 312.43 | — | — | — | 216.90 | — | 222.11 | — | — | 33,834.1 | — | — |
| 11484 | MD50-17-146534 | 50-24822 | 351–351 | 10/19/2017 | — | — | 520.72 | — | — | — | 372.80 | — | 329.33 | 54.53 (J) | — | 53,704.9 | 52.78 (J) | — |
| 11484 | MD50-17-146535 | 50-24822 | 450–450 | 10/19/2017 | — | — | 86.79 (J) | — | — | — | 74.56 | — | 70.47 | 7.09 (J) | — | 15,574.4 | 21.34 (J) | — |
| 11484 | MD50-17-146545 | 50-603063 | 25–25 | 10/18/2017 | — | — | 52.07 (J) | — | 100.72 | 3.62 (J) | — | 37.66 | — | — | — | — | — | 17.79 (J) |
| 11484 | MD50-17-146546 | 50-603063 | 128–128 | 10/18/2017 | — | — | 32.28 (J) | — | — | 3.24 (J) | 244.01 | 34.65 | 1455.19 | 152.67 | — | 912.983 | 11.23 (J) | 13.02 (J) |
| 11484 | MD50-17-146547 | 50-603063 | 228–228 | 10/18/2017 | — | — | 55.54 (J) | — | — | — | 1084.51 | 37.66 | 4748.51 | 599.79 | — | 9666.88 | 41.55 (J) | 16.06 (J) |
| 11484 | MD50-17-146548 | 50-603063 | 347–347 | 10/18/2017 | — | — | — | — | — | — | 1897.9 | — | 6356.87 | 763.37 | — | 29,537.7 | 67.38 (J) | — |
| 11484 | MD50-17-146549 | 50-603063 | 450–450 | 10/18/2017 | — | — | 34.37 (J) | — | — | — | 1084.51 | — | 1684.95 | 92.70 | — | 21,481.9 | 46.60 (J) | — |
| 11484 | MD50-17-146536 | 50-603061 | 25–25 | 10/17/2017 | — | — | — | — | — | — | 128.79 | — | 9190.66 | 1036 | — | 590.754 | 17.97 (J) | — |
| 11484 | MD50-17-146537 | 50-603061 | 128–128 | 10/17/2017 | — | — | — | — | — | — | 352.47 | — | 26,040.20 | 3544.22 | — | 2953.77 | 26.39 (J) | — |
| 11484 | MD50-17-146538 | 50-603061 | 228–228 | 10/17/2017 | — | — | 38.19 (J) | — | — | — | 230.46 | — | 15,317.80 | 2508.22 | — | 3544.52 | 25.27 (J) | — |
| 11484 | MD50-17-146539 | 50-603061 | 347–347 | 10/17/2017 | — | — | — | — | — | — | 149.12 | — | 9190.66 | 654.32 | — | 2148.19 | 26.39 (J) | — |
| 11484 | MD50-17-146540 | 50-603061 | 450–450 | 10/17/2017 | — | — | — | — | — | — | 44.74 (J) | — | 2910.38 | 65.43 | — | 966.69 | 15.72 (J) | — |
| 11484 | MD50-17-146554 | 50-603383 | 26–26 | 10/16/2017 | — | — | — | — | — | — | 169.46 | — | 122.54 | 29.99 (J) | — | 392.05 | — | — |
| 11484 | MD50-17-146555 | 50-603383 | 139–139 | 10/16/2017 | — | — | 31.94 (J) | — | — | — | 1355.64 | — | 1302.01 | 185.39 | — | 4564.91 | 37.62 (J) | — |
| 11484 | MD50-17-146556 | 50-603383 | 244–244 | 10/16/2017 | — | — | 62.49 (J) | — | — | — | 1626.77 | — | 765.89 | 158.13 | — | 6981.63 | 23.58 (J) | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Styrene | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **145** | **665** | **na** | **470** | **na** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 11484 | MD50-17-146557 | 50-603383 | 359–359 | 10/16/2017 | — | — | — | — | — | — | 643.93 | — | 482.51 | 70.88 | — | 3383.41 | 14.60 (J) | — |
| 11484 | MD50-17-146558 | 50-603383 | 450–450 | 10/16/2017 | — | — | — | — | — | — | 359.25 | — | 168.50 | 27.26 (J) | — | 1718.56 | 20.21 (J) | — |
| 11484 | MD50-17-146596 | 50-613185 | 145–145 | 10/06/2017 | — | — | 32.98 (J) | — | — | — | 81.34 | — | — | — | — | 4457.50 | — | — |
| 11484 | MD50-17-146597 | 50-613185 | 235–235 | 10/06/2017 | — | — | 83.31 (J) | — | — | — | 128.79 | — | — | — | — | 8055.73 | — | — |
| 11484 | MD50-17-146598 | 50-613185 | 350–350 | 10/06/2017 | — | — | — | — | — | — | 88.12 | — | — | — | — | 4726.03 | 7.30 (J) | — |
| 11484 | MD50-17-146599 | 50-613185 | 450–450 | 10/06/2017 | — | — | — | — | — | — | 42.02 (J) | — | — | — | — | 2255.6 | 5.56 (J) | — |
| 11484 | MD50-17-146600 | 50-613185 | 600–600 | 10/06/2017 | — | — | — | — | — | — | — | — | — | — | — | 225.60 | — | — |
| 11484 | MD50-17-146592 | 50-603503 | 133–133 | 10/05/2017 | — | — | — | — | — | — | 311.80 | — | 76.60 (J) | — | — | 1987.08 | — | — |
| 11484 | MD50-17-146593 | 50-603503 | 237–237 | 10/05/2017 | — | — | 100.67 (J) | — | — | — | 521.92 | — | 61.27 (J) | 20.72 (J) | — | 4887.14 | — | — |
| 11484 | MD50-17-146594 | 50-603503 | 347–347 | 10/05/2017 | — | — | 48.60 (J) | — | — | — | 427.03 | — | 35.23 (J) | — | — | 4403.80 | — | — |
| 11484 | MD50-17-146595 | 50-603503 | 450–450 | 10/05/2017 | — | — | — | — | — | — | — | — | — | — | — | 3114.88 | 12.35 (J) | — |
| 11484 | MD50-17-146559 | 50-603467 | 143–143 | 10/04/2017 | — | — | — | — | — | — | 399.91 | — | — | — | — | 14,500.3 | — | — |
| 11484 | MD50-17-146560 | 50-603467 | 244–244 | 10/04/2017 | — | — | 208.29 | — | — | — | 745.60 | — | 15.32 (J) | — | — | 26,315.4 | 17.41 (J) | — |
| 11484 | MD50-17-146561 | 50-603467 | 360–360 | 10/04/2017 | — | — | — | — | — | — | 745.60 | — | — | — | — | 24,704.2 | 13.48 (J) | — |
| 11484 | MD50-17-146562 | 50-603467 | 500–500 | 10/04/2017 | — | — | — | — | — | — | 325.35 | — | — | — | — | 10,203.9 | 15.72 (J) | — |
| 11484 | MD50-17-146563 | 50-603467 | 600–600 | 10/04/2017 | — | 21.70 (J) | — | — | — | — | 176.23 | — | — | — | — | 5101.96 | — | — |
| 11484 | MD50-17-146541 | 50-603062 | 122–122 | 10/03/2017 | — | — | — | — | — | — | 43.38 (J) | — | 490.17 | 53.44 (J) | — | 6444.58 | 10.11 (J) | — |
| 11484 | MD50-17-146542 | 50-603062 | 217–217 | 10/03/2017 | — | — | — | — | — | — | 39.31 (J) | — | 727.59 | 59.98 (J) | — | 8592.78 | 17.97 (J) | — |
| 11484 | MD50-17-146543 | 50-603062 | 337–337 | 10/03/2017 | — | — | — | — | — | — | 10.17 (J) | — | 214.45 | 8.18 (J) | — | 3007.47 | 8.42 (J) | — |
| 11484 | MD50-17-146544 | 50-603062 | 450–450 | 10/03/2017 | — | — | — | — | — | — | — | — | 54.38 (J) | — | — | 912.98 | 7.30 (J) | — |
| 11484 | MD50-17-146550 | 50-603064 | 113–113 | 10/02/2017 | — | — | 131.92 (J) | — | — | — | 677.82 | — | 10,722.40 | 2017.48 | — | 26,852.4 | 38.18 (J) | — |
| 11484 | MD50-17-146551 | 50-603064 | 214–214 | 10/02/2017 | — | — | 520.72 | — | — | — | 677.82 | — | 13,79 | 2344.64 | — | 41,352.8 | 61.76 | — |
| 11484 | MD50-17-146552 | 50-603064 | 332–332 | 10/02/2017 | — | — | 65.96 (J) | — | — | — | 264.35 | — | 4825.10 | 256.27 | — | 17,185.6 | 51.10 (J) | — |
| 11484 | MD50-17-146553 | 50-603064 | 500–500 | 10/02/2017 | — | — | — | — | — | — | 36.60 (J) | — | 375.29 | — | — | 2201.90 | 23.58 (J) | — |
| 11194 | MD50-17-131726 | 50-613185 | 145–145 | 04/21/2017 | — | — | — | — | — | — | 74.56 | — | — | — | — | 4081.57 | — | — |
| 11194 | MD50-17-131727 | 50-613185 | 235–235 | 04/21/2017 | — | — | — | — | — | — | 122.01 | — | — | — | — | 7518.68 | — | — |
| 11194 | MD50-17-131728 | 50-613185 | 350–350 | 04/21/2017 | — | — | — | — | — | — | — | — | — | — | — | 3974.16 | — | — |
| 11194 | MD50-17-131729 | 50-613185 | 450–450 | 04/21/2017 | — | — | — | — | — | — | — | — | — | — | — | 1933.38 | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Styrene | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **145** | **665** | **na** | **470** | **na** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 11194 | MD50-17-131730 | 50-613185 | 600–600 | 04/21/2017 | — | — | — | — | — | — | — | — | — | — | — | 177.23 | — | — |
| 11194 | MD50-17-131722 | 50-603503 | 133–133 | 04/20/2017 | — | — | — | — | — | — | 318.58 | — | 84.25 | — | — | 1987.08 | — | — |
| 11194 | MD50-17-131723 | 50-603503 | 237–237 | 04/20/2017 | — | — | 138.86 | — | — | — | 508.37 | — | — | — | — | 4779.73 | — | — |
| 11194 | MD50-17-131724 | 50-603503 | 347–347 | 04/20/2017 | — | — | — | — | — | — | 393.14 | — | — | — | — | 4296.39 | — | — |
| 11194 | MD50-17-131725 | 50-603503 | 450–450 | 04/20/2017 | — | — | — | — | — | — | 237.24 | — | — | — | — | 2900.06 | — | — |
| 11194 | MD50-17-131690 | 50-603467 | 143–143 | 04/19/2017 | — | — | — | — | — | — | 386.36 | — | — | — | — | 11,278 | — | — |
| 11194 | MD50-17-131691 | 50-603467 | 244–244 | 04/19/2017 | — | — | 211.76 | — | — | — | 745.60 | — | — | — | — | 24,704.2 | — | — |
| 11194 | MD50-17-131692 | 50-603467 | 360–360 | 04/19/2017 | — | — | — | — | — | — | 677.82 | — | — | — | — | 23,630.1 | — | — |
| 11194 | MD50-17-131693 | 50-603467 | 500–500 | 04/19/2017 | — | — | — | — | — | — | 230.46 | — | — | — | — | 8055.73 | — | — |
| 11194 | MD50-17-131694 | 50-603467 | 600–600 | 04/19/2017 | — | — | — | — | — | — | 149.12 | — | — | — | — | 4618.62 | — | — |
| 11194 | MD50-17-131695 | 50-603468 | 142–142 | 04/18/2017 | — | — | — | — | — | — | 216.90 | — | — | — | — | 10,74 | — | — |
| 11194 | MD50-17-131696 | 50-603468 | 233–233 | 04/18/2017 | — | — | 520.72 | — | — | — | 386.36 | — | — | — | — | 26,315.4 | — | — |
| 11194 | MD50-17-131697 | 50-603468 | 354–354 | 04/18/2017 | — | — | 326.32 | — | — | — | 413.47 | — | — | — | — | 27,926.5 | — | — |
| 11194 | MD50-17-131698 | 50-603468 | 403–403 | 04/18/2017 | — | — | 243.00 | — | — | — | 305.02 | — | — | — | — | 23,093.1 | — | — |
| 11194 | MD50-17-131699 | 50-613184 | 500–500 | 04/18/2017 | — | — | — | — | — | — | — | — | — | — | — | 5155.67 | — | — |
| 11194 | MD50-17-131700 | 50-613184 | 600–600 | 04/18/2017 | — | — | — | — | — | — | — | — | — | — | — | 1020.39 | — | — |
| 11194 | MD50-17-131701 | 50-613184 | 664.5–664.5 | 04/18/2017 | — | — | — | — | — | — | — | — | — | — | — | 69.82 | — | — |
| 11194 | MD50-17-131662 | 50-24822 | 25–25 | 04/17/2017 | — | — | — | — | — | — | 61.00 | — | — | — | — | 2792.65 | — | — |
| 11194 | MD50-17-131663 | 50-24822 | 142–142 | 04/17/2017 | — | — | — | — | 103.18 | — | — | — | — | — | — | 8592.78 | — | — |
| 11194 | MD50-17-131664 | 50-24822 | 235–235 | 04/17/2017 | — | — | — | — | — | — | — | — | — | — | — | 9666.88 | — | — |
| 11194 | MD50-17-131665 | 50-24822 | 351–351 | 04/17/2017 | — | — | — | — | — | — | — | — | — | — | — | 11,815.1 | — | — |
| 11194 | MD50-17-131666 | 50-24822 | 450–450 | 04/17/2017 | — | — | — | — | — | — | — | — | — | — | — | 6981.63 | — | — |
| 11194 | MD50-17-131672 | 50-603062 | 122–122 | 04/14/2017 | — | — | — | — | — | — | — | — | 528.46 | 59.981 | — | 5907.54 | — | — |
| 11194 | MD50-17-131673 | 50-603062 | 217–217 | 04/14/2017 | — | — | — | — | — | — | — | — | 658.66 | 70.88 | — | 7518.68 | — | — |
| 11194 | MD50-17-131674 | 50-603062 | 337–337 | 04/14/2017 | — | — | — | — | — | — | — | — | 191.47 | — | — | 2094.49 | — | — |
| 11194 | MD50-17-131675 | 50-603062 | 450–450 | 04/14/2017 | — | — | — | — | — | — | — | — | — | — | — | 751.87 | — | — |
| 11194 | MD50-17-131681 | 50-603064 | 113–113 | 04/13/2017 | — | — | 124.97 | — | — | — | 657.49 | — | 9956.55 | 2126.53 | — | 26,852.4 | — | — |
| 11194 | MD50-17-131682 | 50-603064 | 214–214 | 04/13/2017 | — | — | 486.00 | — | — | — | 643.93 | — | 13,020.10 | 2235.58 | — | 40,278.7 | 67.38 | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Styrene | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **145** | **665** | **na** | **470** | **na** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 11194 | MD50-17-131683 | 50-603064 | 332–332 | 04/13/2017 | — | — | — | — | — | — | 237.24 | — | 4825.10 | 267.18 | — | 17,185.6 | — | — |
| 11194 | MD50-17-131684 | 50-603064 | 500–500 | 04/13/2017 | — | — | — | — | — | — | — | — | 329.33 | — | — | 2094.49 | — | — |
| 11194 | MD50-17-131667 | 50-603061 | 25–25 | 04/12/2017 | — | — | — | — | — | — | 135.56 | — | 9956.55 | 1145.06 | — | 644.46 | — | — |
| 11194 | MD50-17-131668 | 50-603061 | 128–128 | 04/12/2017 | — | — | — | — | — | — | 338.91 | — | 27,57 | 3871.38 | — | 3061.18 | — | — |
| 11194 | MD50-17-131669 | 50-603061 | 228–228 | 04/12/2017 | — | — | — | — | — | — | 210.12 | — | 15,317.80 | 2726.32 | — | 3705.64 | — | — |
| 11194 | MD50-17-131670 | 50-603061 | 347–347 | 04/12/2017 | — | — | — | — | — | — | 128.79 | — | 9190.66 | 654.32 | — | 2040.79 | — | — |
| 11194 | MD50-17-131671 | 50-603061 | 450–450 | 04/12/2017 | — | — | — | — | — | — | — | — | 2757.20 | 65.43 | — | 912.98 | — | — |
| 11194 | MD50-17-131676 | 50-603063 | 25–25 | 04/11/2017 | — | — | — | — | — | — | 325.35 | — | 2144.49 | 239.92 | — | 1288.92 | — | — |
| 11194 | MD50-17-131677 | 50-603063 | 128–128 | 04/11/2017 | — | — | — | — | — | — | 1084.51 | — | 4901.68 | 708.84 | — | 10,203.9 | — | — |
| 11194 | MD50-17-131678 | 50-603063 | 228–228 | 04/11/2017 | — | — | — | — | — | — | 1694.55 | — | 5744.16 | 708.84 | — | 26,852.4 | 67.38 | — |
| 11194 | MD50-17-131679 | 50-603063 | 347–347 | 04/11/2017 | — | — | — | — | — | — | 881.17 | — | 1608.37 | 92.70 | — | 18,796.7 | — | — |
| 11194 | MD50-17-131680 | 50-603063 | 450–450 | 04/11/2017 | — | — | — | — | — | — | 413.47 | — | 291.04 | — | — | 10,741 | — | — |
| 11194 | MD50-17-131685 | 50-603383 | 26–26 | 04/10/2017 | — | — | — | — | — | — | 142.34 | — | 76.59 | — | — | 392.05 | — | — |
| 11194 | MD50-17-131686 | 50-603383 | 139–139 | 04/10/2017 | — | — | — | — | — | — | 1355.64 | — | 1225.42 | 196.30 | — | 5370.49 | — | — |
| 11194 | MD50-17-131687 | 50-603383 | 244–244 | 04/10/2017 | — | — | — | — | — | — | 1694.55 | — | 995.66 | 196.30 | — | 8055.73 | — | — |
| 11194 | MD50-17-131688 | 50-603383 | 359–359 | 04/10/2017 | — | — | — | — | — | — | 643.93 | — | 359.97 | — | — | 3276 | — | — |
| 11194 | MD50-17-131689 | 50-603383 | 450–450 | 04/10/2017 | — | — | — | — | — | — | 372.80 | — | 176.15 | — | — | 1987.08 | — | — |
| 11194 | MD50-17-131656 | 50-24813 | 25–25 | 04/07/2017 | — | — | — | — | 73.70 | — | 386.36 | 27.87 | — | — | — | 11,278 | — | — |
| 11194 | MD50-17-131657 | 50-24813 | 150–150 | 04/07/2017 | — | — | 343.68 | — | — | — | 623.60 | — | — | — | 196.30 | 41,889.8 | — | — |
| 11194 | MD50-17-131658 | 50-24813 | 241–241 | 04/07/2017 | — | — | 798.44 | — | — | — | 948.95 | 41.43 | 84.25 | — | — | 85,927.8 | — | — |
| 11194 | MD50-17-131659 | 50-24813 | 358–358 | 04/07/2017 | — | — | — | — | — | — | 603.26 | — | — | — | — | 59,075.4 | — | — |
| 11194 | MD50-17-131660 | 50-24813 | 450–450 | 04/07/2017 | — | — | 170.10 | — | — | — | 311.80 | — | — | — | — | 31,685.9 | — | — |
| 11194 | MD50-17-131661 | 50-24813 | 600–600 | 04/07/2017 | — | — | — | — | — | — | — | — | — | — | — | 4403.8 | — | — |
| 11194 | MD50-17-131702 | 50-603470 | 83–83 | 04/06/2017 | — | — | — | — | — | — | 528.70 | — | 114.88 | — | 92.70 | 10,741 | — | — |
| 11194 | MD50-17-131703 | 50-603470 | 203–203 | 04/06/2017 | — | — | 624.86 | — | — | — | 603.26 | — | 919.07 | 125.41 | — | 45,649.1 | — | — |
| 11194 | MD50-17-131704 | 50-603470 | 278–278 | 04/06/2017 | — | — | 798.44 | — | — | — | 528.70 | 45.19 | 919.07 | 98.15 | — | 53,704.9 | — | — |
| 11194 | MD50-17-131705 | 50-603470 | 351–351 | 04/06/2017 | — | — | 451.29 | — | — | — | 352.47 | — | 696.96 | — | — | 40,815.7 | — | — |
| 11194 | MD50-17-131706 | 50-603470 | 450–450 | 04/06/2017 | — | — | — | — | — | — | 101.67 | — | 153.18 | — | — | 13,426.2 | — | — |

**Table 5.2-1 (continued)**

| Sampling Plan 2017 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Styrene | Tetrachloroethene | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **145** | **665** | **na** | **470** | **na** | **3630** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 11194 | MD50-17-131707 | 50-603470 | 650–650 | 04/06/2017 | — | — | — | — | — | — | — | 37.66 | — | — | — | 91.30 | — | — |
| 11194 | MD50-17-131708 | 50-603471 | 90–90 | 04/05/2017 | — | — | — | — | — | — | 555.81 | — | 107.22 | — | — | 10,741 | — | — |
| 11194 | MD50-17-131709 | 50-603471 | 209–209 | 04/05/2017 | — | — | — | — | — | — | 948.95 | — | — | — | — | 38,667.5 | — | — |
| 11194 | MD50-17-131710 | 50-603471 | 288–288 | 04/05/2017 | — | — | 1839.88 | — | — | — | 1220.08 | — | 597.39 | — | — | 64,445.8 | 67.38 | — |
| 11194 | MD50-17-131711 | 50-603471 | 360–360 | 04/05/2017 | — | — | 937.30 | — | — | — | 948.95 | — | 375.30 | — | — | 50,482.6 | 61.76 | — |
| 11194 | MD50-17-131712 | 50-603471 | 450–450 | 04/05/2017 | — | — | 284.66 | — | — | — | 664.26 | — | 153.18 | — | — | 31,685.9 | — | — |
| 11194 | MD50-17-131713 | 50-613183 | 550–550 | 04/05/2017 | — | — | — | — | — | — | 108.45 | — | — | — | — | 5155.67 | — | — |
| 11194 | MD50-17-131714 | 50-613183 | 642.5–642.5 | 04/05/2017 | — | — | — | — | — | — | — | — | — | — | — | 118.15 | — | — |
| 11194 | MD50-17-131715 | 50-603472 | 27–27 | 04/05/2017 | — | — | — | — | — | — | 447.36 | — | — | — | — | 2738.95 | — | — |
| 11194 | MD50-17-131721 | 50-613182 | 632.5–632.5 | 04/05/2017 | — | — | — | — | — | — | — | — | — | — | — | 64.45 | — | — |
| 11194 | MD50-17-131731 | 50-603471 | Unknown[d] | 04/05/2017 | — | — | 183.99 | — | — | — | 948.94 | — | 222.11 | — | 76.34 | 19,870.8 | — | — |
| 11194 | MD50-17-131716 | 50-603472 | 146–146 | 04/04/2017 | — | — | 451.29 | — | — | — | 948.95 | — | 130.20 | — | — | 15,574.4 | — | — |
| 11194 | MD50-17-131717 | 50-603472 | 292–292 | 04/04/2017 | — | — | 1041.44 | — | — | — | 1830.11 | — | 160.84 | — | — | 35,982.3 | — | — |
| 11194 | MD50-17-131718 | 50-603472 | 364–364 | 04/04/2017 | — | — | 381.86 | — | — | — | 1152.29 | — | 99.57 | — | — | 24,704.2 | — | — |
| 11194 | MD50-17-131719 | 50-603472 | 450–450 | 04/04/2017 | — | — | — | — | — | — | 515.14 | — | — | — | — | 10,741 | — | — |
| 11194 | MD50-17-131720 | 50-613182 | 550–550 | 04/04/2017 | — | — | — | — | — | — | 149.12 | — | — | — | — | 2846.36 | — | — |
| 11194 | MD50-17-131652 | 50-24784 | 155–155 | 04/03/2017 | — | — | — | — | 108.09 | — | 2304.59 | 41.27 | 145.52 | — | — | 3974.16 | — | — |
| 11194 | MD50-17-131653 | 50-24784 | 244–244 | 04/03/2017 | — | — | — | — | — | — | 2304.59 | — | 122.54 | — | — | 4672.32 | — | — |
| 11194 | MD50-17-131654 | 50-24784 | 362–362 | 04/03/2017 | — | — | — | — | — | — | 1491.20 | — | — | — | — | 3276.00 | — | — |
| 11194 | MD50-17-131655 | 50-24784 | 450–450 | 04/03/2017 | — | — | — | — | — | — | 569.37 | — | — | — | — | 1342.62 | — | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[c] — = Not detected.

[d] Port was not labeled with the port depth.

**Table 5.2-2**
**VOC Pore-Gas Results at MDA C for FY 2016**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10982 | MD50-16-126557 | 50-603503 | 133–133 | 10/28/2016 | —[b] | — | 97.59 | — | — | — | — | — | — | — | — |
| 10982 | MD50-16-126558 | 50-603503 | 237–237 | 10/28/2016 | — | 100.60 | 126.87 | — | 64.25 | — | — | — | — | — | — |
| 10982 | MD50-16-126559 | 50-603503 | 347–347 | 10/28/2016 | — | 113.17 | 63.43 | — | 79.07 | — | — | — | — | — | — |
| 10982 | MD50-16-126560 | 50-603503 | 450–450 | 10/28/2016 | — | 81.73 | — | — | 79.07 | — | — | — | — | — | — |
| 10982 | MD50-16-126561 | 50-613185 | 145–145 | 10/27/2016 | — | 81.73 | 97.59 | — | 88.96 | — | — | — | — | — | — |
| 10982 | MD50-16-126562 | 50-613185 | 235–235 | 10/27/2016 | — | 138.32 | 87.83 | — | 153.21 | — | — | — | — | — | — |
| 10982 | MD50-16-126563 | 50-613185 | 350–350 | 10/27/2016 | — | 88.02 | — | — | 118.61 | — | — | — | — | — | — |
| 10982 | MD50-16-126564 | 50-613185 | 450–450 | 10/27/2016 | — | 75.45 | — | — | 108.73 | — | — | — | — | — | — |
| 10982 | MD50-16-126565 | 50-613185 | 600–600 | 10/27/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10982 | MD50-16-126525 | 50-603467 | 143–143 | 10/26/2016 | — | 370.95 | 585.55 | — | 163.09 | — | — | — | 95.10 | — | — |
| 10982 | MD50-16-126526 | 50-603467 | 244–244 | 10/26/2016 | — | 515.56 | 585.55 | — | 291.59 | — | — | — | 166.42 | — | — |
| 10982 | MD50-16-126527 | 50-603467 | 360–360 | 10/26/2016 | — | 509.27 | 473.32 | — | 291.59 | — | — | — | 142.65 | — | — |
| 10982 | MD50-16-126528 | 50-603467 | 500–500 | 10/26/2016 | — | 257.78 | 58.56 | — | 232.28 | — | — | — | — | — | — |
| 10982 | MD50-16-126529 | 50-603467 | 600–600 | 10/26/2016 | — | 163.47 | — | — | 158.15 | — | — | — | — | — | — |
| 10982 | MD50-16-126530 | 50-603468 | 142–142 | 10/25/2016 | — | 220.06 | 317.17 | — | 172.97 | — | — | — | 71.32 | — | — |
| 10982 | MD50-16-126531 | 50-603468 | 233–233 | 10/25/2016 | — | 591.01 | 634.35 | — | 429.97 | — | — | — | 217.93 | — | — |
| 10982 | MD50-16-126532 | 50-603468 | 354–354 | 10/25/2016 | — | 609.87 | 448.92 | — | 494.21 | — | — | — | 178.31 | — | — |
| 10982 | MD50-16-126533 | 50-603468 | 403–403 | 10/25/2016 | — | 597.30 | 336.69 | — | 593.06 | — | — | — | 134.72 | — | — |
| 10982 | MD50-16-126534 | 50-613184 | 500–500 | 10/25/2016 | — | 176.04 | — | — | 247.11 | — | — | — | — | — | — |
| 10982 | MD50-16-126535 | 50-613184 | 600–600 | 10/25/2016 | — | 75.45 | — | — | 128.50 | — | — | — | — | — | — |
| 10982 | MD50-16-126536 | 50-613184 | 664.5–664.5 | 10/25/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10982 | MD50-16-126497 | 50-24822 | 25–25 | 10/24/2016 | — | 75.45 | 239.10 | — | 118.61 | — | — | — | — | — | — |
| 10982 | MD50-16-126498 | 50-24822 | 142–142 | 10/24/2016 | — | 238.92 | 585.60 | — | 459.62 | — | — | — | 126.80 | — | — |
| 10982 | MD50-16-126499 | 50-24822 | 235–235 | 10/24/2016 | — | 440.11 | 683.14 | — | 939.00 | — | — | — | 194.16 | — | — |
| 10982 | MD50-16-126500 | 50-24822 | 351–351 | 10/24/2016 | — | 276.64 | 170.79 | — | 642.48 | — | — | — | 55.47 | — | — |
| 10982 | MD50-16-126501 | 50-24822 | 450–450 | 10/24/2016 | — | — | — | — | 128.50 | — | — | — | — | — | 116.75 |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10982 | MD50-16-126507 | 50-603062 | 122–122 | 10/21/2016 | — | — | 78.07 | — | 207.57 | — | — | — | — | — | — |
| 10982 | MD50-16-126508 | 50-603062 | 217–217 | 10/21/2016 | — | — | 53.68 | — | 222.40 | — | — | — | — | — | — |
| 10982 | MD50-16-126509 | 50-603062 | 337–337 | 10/21/2016 | — | — | — | — | 202.63 | — | — | — | — | — | — |
| 10982 | MD50-16-126510 | 50-603062 | 450–450 | 10/21/2016 | — | — | — | — | 133.44 | — | — | — | — | — | — |
| 10982 | MD50-16-126516 | 50-603064 | 113–113 | 10/20/2016 | — | 157.18 | 731.94 | — | 345.95 | — | — | 475.48 | 190.19 | — | — |
| 10982 | MD50-16-126517 | 50-603064 | 214–214 | 10/20/2016 | — | 352.09 | 683.14 | — | 741.32 | — | — | 713.23 | 273.40 | — | — |
| 10982 | MD50-16-126518 | 50-603064 | 332–332 | 10/20/2016 | — | 276.64 | 121.99 | — | 642.48 | — | — | 206.04 | 43.59 | — | — |
| 10982 | MD50-16-126519 | 50-603064 | 500–500 | 10/20/2016 | — | 94.31 | — | — | 306.41 | — | — | — | — | — | — |
| 10982 | MD50-16-126502 | 50-603061 | 25–25 | 10/19/2016 | — | — | — | — | 345.95 | — | — | 186.23 | — | — | — |
| 10982 | MD50-16-126503 | 50-603061 | 128–128 | 10/19/2016 | — | 69.16 | 63.43 | — | 326.18 | — | — | 1307.58 | — | — | — |
| 10982 | MD50-16-126504 | 50-603061 | 228–228 | 10/19/2016 | — | 138.32 | 58.56 | — | 316.30 | — | — | 1426.45 | — | — | — |
| 10982 | MD50-16-126505 | 50-603061 | 347–347 | 10/19/2016 | — | 132.03 | — | — | 252.05 | — | — | 320.95 | — | — | — |
| 10982 | MD50-16-126506 | 50-603061 | 450–450 | 10/19/2016 | — | — | — | — | 98.84 | — | — | 47.55 | — | — | — |
| 10982 | MD50-16-126511 | 50-603063 | 25–25 | 10/18/2016 | — | — | — | — | 128.50 | — | — | — | — | — | — |
| 10982 | MD50-16-126512 | 50-603063 | 128–128 | 10/18/2016 | — | 201.19 | 356.21 | — | 395.37 | 84.94 | — | 305.10 | 43.59 | — | — |
| 10982 | MD50-16-126513 | 50-603063 | 228–228 | 10/18/2016 | — | 477.84 | 731.94 | — | 642.48 | 80.90 | — | 475.48 | 182.27 | 55.42 | — |
| 10982 | MD50-16-126514 | 50-603063 | 347–347 | 10/18/2016 | — | 339.51 | 331.81 | — | 375.60 | — | — | 106.98 | 63.40 | — | — |
| 10982 | MD50-16-126515 | 50-603063 | 450–450 | 10/18/2016 | — | 188.62 | 146.39 | — | 212.51 | — | — | — | — | — | — |
| 10982 | MD50-16-126520 | 50-603383 | 26–26 | 10/17/2016 | — | 132.03 | 112.23 | — | 237.22 | — | — | 38.43 | — | 69.28 | — |
| 10982 | MD50-16-126521 | 50-603383 | 139–139 | 10/17/2016 | — | 201.19 | 190.30 | — | 252.05 | — | — | 67.36 | 43.59 | 240.16 | — |
| 10982 | MD50-16-126522 | 50-603383 | 244–244 | 10/17/2016 | 90.21 | 377.24 | 175.67 | — | 296.53 | — | — | 83.21 | 63.40 | 392.56 | — |
| 10982 | MD50-16-126523 | 50-603383 | 359–359 | 10/17/2016 | — | 238.92 | — | — | 187.80 | — | — | — | — | — | — |
| 10982 | MD50-16-126524 | 50-603383 | 450–450 | 10/17/2016 | — | 150.90 | — | — | 153.21 | — | — | — | — | — | — |
| 10982 | MD50-16-126491 | 50-24813 | 25–25 | 10/07/2016 | — | 754.48 | 731.94 | — | 128.50 | — | — | — | 35.66 | — | — |
| 10982 | MD50-16-126492 | 50-24813 | 150–150 | 10/07/2016 | — | 1257.46 | 2244.61 | — | 425.02 | — | 60.67 | — | 435.86 | 50.80 | — |
| 10982 | MD50-16-126493 | 50-24813 | 241–241 | 10/07/2016 | — | 1508.95 | 1951.83 | — | 1087.27 | — | — | — | 594.36 | — | — |
| 10982 | MD50-16-126494 | 50-24813 | 358–358 | 10/07/2016 | — | 817.35 | 585.55 | — | 988.43 | — | — | — | 210.01 | — | — |
| 10982 | MD50-16-126495 | 50-24813 | 450–450 | 10/07/2016 | — | 515.56 | 151.27 | — | 741.32 | — | — | — | 59.44 | — | — |
| 10982 | MD50-16-126496 | 50-24813 | 600–600 | 10/07/2016 | — | 144.61 | — | — | 316.30 | — | — | — | — | — | — |
| 10982 | MD50-16-126537 | 50-603470 | 83–83 | 10/06/2016 | — | 276.64 | 927.12 | — | 207.57 | — | — | — | 134.72 | — | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10982 | MD50-16-126538 | 50-603470 | 203–203 | 10/06/2016 | — | 402.39 | 1073.51 | — | 691.90 | — | — | — | 316.90 | — | — |
| 10982 | MD50-16-126539 | 50-603470 | 278–278 | 10/06/2016 | — | 591.01 | 975.92 | — | 988.43 | — | — | 39.62 | 332.84 | — | — |
| 10982 | MD50-16-126540 | 50-603470 | 351–351 | 10/06/2016 | — | 509.27 | 405.01 | — | 988.43 | — | — | — | 162.46 | — | — |
| 10982 | MD50-16-126541 | 50-603470 | 450–450 | 10/06/2016 | — | 314.37 | 107.35 | — | 691.90 | — | — | — | 39.62 | — | — |
| 10982 | MD50-16-126542 | 50-603470 | 650–650 | 10/06/2016 | — | — | — | — | 98.84 | — | — | — | — | — | — |
| 10982 | MD50-16-126543 | 50-603471 | 90–90 | 10/05/2016 | — | 502.98 | 731.94 | — | 79.07 | — | — | — | 79.25 | — | — |
| 10982 | MD50-16-126544 | 50-603471 | 209–209 | 10/05/2016 | — | 754.48 | 927.12 | — | 593.06 | — | — | — | 293.22 | — | — |
| 10982 | MD50-16-126545 | 50-603471 | 288–288 | 10/05/2016 | — | 1068.84 | 1463.88 | — | 790.74 | — | — | — | 475.48 | 60.04 | — |
| 10982 | MD50-16-126546 | 50-603471 | 360–360 | 10/05/2016 | — | 880.22 | 780.73 | — | 889.58 | — | — | — | 265.48 | — | — |
| 10982 | MD50-16-126547 | 50-603471 | 450–450 | 10/05/2016 | — | 452.69 | 409.89 | — | 449.73 | — | — | — | 126.80 | — | — |
| 10982 | MD50-16-126548 | 50-613183 | 550–550 | 10/05/2016 | — | 213.77 | — | — | 415.14 | — | — | — | — | — | — |
| 10982 | MD50-16-126549 | 50-613183 | 642.5–642.5 | 10/05/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10982 | MD50-16-126582 | 50-603471 | — | 10/05/2016 | — | 1383.21 | 1659.06 | — | 232.28 | — | 105.17 | — | 229.82 | 69.28 | — |
| 10982 | MD50-16-126550 | 50-603472 | 27–27 | 10/04/2016 | — | — | 209.82 | — | — | — | — | — | — | — | — |
| 10982 | MD50-16-126551 | 50-603472 | 146–146 | 10/04/2016 | — | 176.04 | 487.96 | — | 128.50 | — | 44.50 | — | 103.02 | 73.89 | — |
| 10982 | MD50-16-126552 | 50-603472 | 292–292 | 10/04/2016 | — | 502.98 | 683.14 | — | 341.01 | — | — | — | 194.16 | 60.04 | — |
| 10982 | MD50-16-126553 | 50-603472 | 364–364 | 10/04/2016 | — | 490.41 | 234.22 | — | 415.14 | — | — | — | 79.25 | — | — |
| 10982 | MD50-16-126554 | 50-603472 | 450–450 | 10/04/2016 | — | 169.76 | — | — | 182.86 | — | — | — | — | — | — |
| 10982 | MD50-16-126555 | 50-613182 | 550–550 | 10/04/2016 | — | 176.04 | — | — | 217.45 | — | — | — | — | — | — |
| 10982 | MD50-16-126556 | 50-613182 | 632.5–632.5 | 10/04/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10982 | MD50-16-126487 | 50-24784 | 155–155 | 10/03/2016 | — | 201.19 | 331.81 | — | 108.73 | — | — | — | — | 69.28 | — |
| 10982 | MD50-16-126488 | 50-24784 | 244–244 | 10/03/2016 | — | 201.19 | 92.71 | 37.84 | 98.84 | — | — | — | — | — | — |
| 10982 | MD50-16-126489 | 50-24784 | 362–362 | 10/03/2016 | — | 333.23 | - | — | 168.03 | — | — | — | — | — | — |
| 10982 | MD50-16-126490 | 50-24784 | 450–450 | 10/03/2016 | — | 289.22 | - | — | 172.97 | — | — | — | — | — | — |
| 10643 | MD50-16-116404 | 50-603383 | 139–139 | 04/26/2016 | — | 226.34 | 209.82 | — | 336.06 | — | — | 55.47 | 47.55 | 254.01 | — |
| 10643 | MD50-16-115122 | 50-24822 | 25–25 | 04/25/2016 | — | 81.73 | 273.26 | — | 148.26 | — | — | — | — | — | — |
| 10643 | MD50-16-115123 | 50-24822 | 142–142 | 04/25/2016 | — | 270.35 | 585.55 | — | 593.06 | — | — | — | 134.72 | — | — |
| 10643 | MD50-16-115124 | 50-24822 | 235–235 | 04/25/2016 | — | 364.66 | 585.55 | — | 790.74 | — | — | — | 162.46 | — | — |
| 10643 | MD50-16-115125 | 50-24822 | 351–351 | 04/25/2016 | — | 238.92 | 170.79 | — | 642.48 | — | — | — | 47.55 | — | — |
| 10643 | MD50-16-115126 | 50-24822 | 450–450 | 04/25/2016 | — | 150.90 | — | — | 439.85 | — | — | — | — | — | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10643 | MD50-16-115187 | 50-613185 | 145–145 | 04/22/2016 | — | 75.45 | 97.60 | — | 93.90 | — | — | — | — | — | — |
| 10643 | MD50-16-115188 | 50-613185 | 235–235 | 04/22/2016 | — | 125.75 | 92.71 | — | 158.15 | — | — | — | — | — | — |
| 10643 | MD50-16-115189 | 50-613185 | 350–350 | 04/22/2016 | — | 106.88 | — | — | 163.09 | — | — | — | — | — | — |
| 10643 | MD50-16-115190 | 50-613185 | 450–450 | 04/22/2016 | — | 75.45 | — | — | 128.50 | — | — | — | — | — | — |
| 10643 | MD50-16-115191 | 50-613185 | 600–600 | 04/22/2016 | — | — | — | — | 64.25 | — | — | — | — | — | — |
| 10643 | MD50-16-115183 | 50-603503 | 133–133 | 04/21/2016 | — | — | 112.23 | — | — | — | — | — | — | — | — |
| 10643 | MD50-16-115184 | 50-603503 | 237–237 | 04/21/2016 | — | 100.60 | 141.51 | — | 79.07 | — | — | — | — | — | — |
| 10643 | MD50-16-115185 | 50-603503 | 347–347 | 04/21/2016 | — | 119.46 | 68.31 | — | 98.84 | — | — | — | — | — | — |
| 10643 | MD50-16-115186 | 50-603503 | 450–450 | 04/21/2016 | — | 88.02 | — | — | 74.13 | — | — | — | — | — | — |
| 10643 | MD50-16-115150 | 50-603467 | 143–143 | 04/20/2016 | — | 352.09 | 536.75 | — | 197.69 | — | — | — | 126.80 | — | — |
| 10643 | MD50-16-115151 | 50-603467 | 244–244 | 04/20/2016 | — | 591.01 | 683.14 | — | 336.06 | — | — | — | 198.12 | — | — |
| 10643 | MD50-16-115152 | 50-603467 | 360–360 | 04/20/2016 | — | 433.82 | 385.49 | — | 301.47 | — | — | — | 134.72 | — | — |
| 10643 | MD50-16-115153 | 50-603467 | 500–500 | 04/20/2016 | — | 207.48 | — | — | 222.40 | — | — | — | — | — | — |
| 10643 | MD50-16-115154 | 50-603467 | 600–600 | 04/20/2016 | — | 62.87 | — | — | 79.07 | — | — | — | — | — | — |
| 10643 | MD50-16-115155 | 50-603468 | 142–142 | 04/19/2016 | — | 213.77 | 351.33 | — | 148.26 | — | — | — | 91.13 | — | — |
| 10643 | MD50-16-115156 | 50-603468 | 233–233 | 04/19/2016 | — | 547.00 | 585.55 | — | 444.79 | — | — | — | 198.12 | — | — |
| 10643 | MD50-16-115157 | 50-603468 | 354–354 | 04/19/2016 | — | 534.42 | 380.61 | — | 543.63 | — | — | — | 142.65 | — | — |
| 10643 | MD50-16-115158 | 50-603468 | 403–403 | 04/19/2016 | — | 484.12 | 243.98 | — | 593.06 | — | — | — | 103.02 | — | — |
| 10643 | MD50-16-115159 | 50-613184 | 500–500 | 04/19/2016 | — | 157.18 | — | — | 256.99 | — | — | — | — | — | — |
| 10643 | MD50-16-115160 | 50-613184 | 600–600 | 04/19/2016 | — | 54.70 (J)[c] | — | — | 123.55 | — | — | — | — | — | — |
| 10643 | MD50-16-115161 | 50-613184 | 664.5–664.5 | 04/19/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10643 | MD50-16-115132 | 50-603062 | 122–122 | 04/15/2016 | — | — | 73.19 | — | 207.57 | — | — | — | — | — | — |
| 10643 | MD50-16-115133 | 50-603062 | 217–217 | 04/15/2016 | — | — | 58.56 | — | 266.88 | — | — | — | — | — | — |
| 10643 | MD50-16-115134 | 50-603062 | 337–337 | 04/15/2016 | — | — | — | — | 172.97 | — | — | — | — | — | — |
| 10643 | MD50-16-115135 | 50-603062 | 450–450 | 04/15/2016 | — | — | — | — | 118.61 | — | — | — | — | — | — |
| 10643 | MD50-16-115141 | 50-603064 | 113–113 | 04/14/2016 | — | 169.76 | 878.33 | — | 405.25 | — | — | 475.48 | 229.82 | — | — |
| 10643 | MD50-16-115142 | 50-603064 | 214–214 | 04/14/2016 | — | 333.23 | 634.35 | — | 741.32 | — | — | 594.36 | 261.52 | — | — |
| 10643 | MD50-16-115143 | 50-603064 | 332–332 | 04/14/2016 | — | 207.48 | 87.83 | — | 543.63 | — | — | 142.65 | 43.59 | — | — |
| 10643 | MD50-16-115144 | 50-603064 | 500–500 | 04/14/2016 | — | — | — | — | 256.99 | — | — | — | — | — | — |
| 10643 | MD50-16-115127 | 50-603061 | 25–25 | 04/13/2016 | — | — | — | — | 341.01 | — | — | 194.16 | — | — | 282.46 |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10643 | MD50-16-115128 | 50-603061 | 128–128 | 04/13/2016 | — | 61.62 | 73.19 | — | 301.47 | — | — | 1426.45 | — | — | — |
| 10643 | MD50-16-115129 | 50-603061 | 228–228 | 04/13/2016 | — | 75.45 | 45.87 | — | 202.63 | — | — | 1069.84 | — | — | — |
| 10643 | MD50-16-115130 | 50-603061 | 347–347 | 04/13/2016 | — | 81.73 | — | — | 168.03 | — | — | 213.97 | — | — | — |
| 10643 | MD50-16-115131 | 50-603061 | 450–450 | 04/13/2016 | — | — | — | — | 128.50 | — | — | 79.25 | — | — | — |
| 10643 | MD50-16-115136 | 50-603063 | 25–25 | 04/12/2016 | — | — | — | — | 118.61 | — | — | — | — | — | — |
| 10643 | MD50-16-115137 | 50-603063 | 128–128 | 04/12/2016 | — | 163.47 | 302.53 | — | 326.18 | 72.81 | — | 249.63 | 39.62 | — | — |
| 10643 | MD50-16-115138 | 50-603063 | 228–228 | 04/12/2016 | — | 358.38 | 536.75 | — | 454.68 | 56.63 | — | 348.69 | 134.72 | — | — |
| 10643 | MD50-16-115139 | 50-603063 | 347–347 | 04/12/2016 | — | 251.49 | 268.38 | — | 316.30 | — | — | 79.25 | 55.47 | — | — |
| 10643 | MD50-16-115140 | 50-603063 | 450–450 | 04/12/2016 | — | 188.62 | 151.27 | — | 222.40 | — | — | — | — | — | — |
| 10643 | MD50-16-115145 | 50-603383 | 26–26 | 04/11/2016 | — | — | 68.31 | — | 59.31 | — | — | — | — | 40.64 | — |
| 10643 | MD50-16-115147 | 50-603383 | 244–244 | 04/11/2016 | — | 364.66 | 170.79 | — | 286.64 | — | — | 67.36 | 63.40 | 360.24 | — |
| 10643 | MD50-16-115148 | 50-603383 | 359–359 | 04/11/2016 | — | 251.49 | — | — | 232.28 | — | — | — | — | 50.80 | — |
| 10643 | MD50-16-115149 | 50-603383 | 450–450 | 04/11/2016 | — | 238.92 | — | — | 202.63 | — | — | — | — | — | — |
| 10643 | MD50-16-115116 | 50-24813 | 25–25 | 04/08/2016 | — | 1068.84 | 927.12 | — | 192.74 | — | — | — | 47.55 | — | — |
| 10643 | MD50-16-115117 | 50-24813 | 150–150 | 04/08/2016 | — | 1383.21 | 2634.98 | — | 494.21 | — | 88.99 | — | 515.11 | 73.89 | — |
| 10643 | MD50-16-115118 | 50-24813 | 241–241 | 04/08/2016 | — | 1634.70 | 2049.43 | — | 1136.69 | — | 33.57 (J) | — | 633.98 | — | — |
| 10643 | MD50-16-115119 | 50-24813 | 358–358 | 04/08/2016 | — | 943.10 | 634.35 | — | 1037.85 | — | — | — | 206.04 | — | — |
| 10643 | MD50-16-115120 | 50-24813 | 450–450 | 04/08/2016 | — | 308.08 | 87.83 | — | 400.31 | — | — | — | 39.62 | — | — |
| 10643 | MD50-16-115121 | 50-24813 | 600–600 | 04/08/2016 | — | 157.18 | — | — | 326.18 | — | — | — | — | — | — |
| 10643 | MD50-16-115162 | 50-603470 | 83–83 | 04/07/2016 | — | 188.62 | 829.53 | — | 148.26 | — | — | — | 134.72 | — | — |
| 10643 | MD50-16-115163 | 50-603470 | 203–203 | 04/07/2016 | — | 452.69 | 1171.10 | — | 691.90 | — | — | 39.62 | 356.61 | — | — |
| 10643 | MD50-16-115165 | 50-603470 | 351–351 | 04/07/2016 | — | 427.54 | 375.73 | — | 840.16 | — | — | — | 142.65 | — | — |
| 10643 | MD50-16-115168 | 50-603470 | 650–650 | 04/07/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10643 | MD50-16-115164 | 50-603470 | 278–278 | 04/06/2016 | — | 565.86 | 927.12 | — | 939.00 | — | — | 43.59 | 356.61 | — | — |
| 10643 | MD50-16-115166 | 50-603470 | 450–450 | 04/06/2016 | — | 226.34 | 73.19 | — | 474.44 | — | — | — | — | — | — |
| 10643 | MD50-16-115169 | 50-603471 | 90–90 | 04/06/2016 | — | 238.92 | 419.64 | — | — | — | — | — | 38.04 | — | — |
| 10643 | MD50-16-115170 | 50-603471 | 209–209 | 04/06/2016 | — | 301.79 | 829.53 | — | 148.26 | — | 64.72 | — | 182.27 | — | — |
| 10643 | MD50-16-115171 | 50-603471 | 288–288 | 04/06/2016 | — | 1131.71 | 1463.88 | — | 691.90 | — | 39.64 | — | 435.86 | 60.04 | — |
| 10643 | MD50-16-115172 | 50-603471 | 360–360 | 04/06/2016 | — | 754.48 | 683.14 | — | 691.90 | — | — | — | 241.70 | — | — |
| 10643 | MD50-16-115173 | 50-603471 | 450–450 | 04/06/2016 | — | 427.54 | 585.55 | — | 123.55 | — | — | — | 190.19 | — | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10643 | MD50-16-115174 | 50-613183 | 550–550 | 04/06/2016 | — | 138.32 | — | — | 316.30 | — | — | — | — | — | — |
| 10643 | MD50-16-115175 | 50-613183 | 642.5–642.5 | 04/06/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10643 | MD50-16-115192 | 50-603471 | Unknownd | 04/06/2016 | — | 754.48 | 1073.51 | — | 108.73 | — | 72.81 | — | 122.83 | 43.41 | — |
| 10643 | MD50-16-115176 | 50-603472 | 27–27 | 04/05/2016 | — | — | 229.34 | — | — | — | — | — | — | — | — |
| 10643 | MD50-16-115177 | 50-603472 | 146–146 | 04/05/2016 | — | 182.33 | 483.08 | — | 103.79 | — | — | — | 99.06 | 60.04 | — |
| 10643 | MD50-16-115178 | 50-603472 | 292–292 | 04/05/2016 | — | 502.98 | 585.55 | — | 341.01 | — | — | — | 190.19 | 55.42 | — |
| 10643 | MD50-16-115179 | 50-603472 | 364–364 | 04/05/2016 | — | 408.68 | 180.55 | — | 341.01 | — | — | — | 55.47 | — | — |
| 10643 | MD50-16-115180 | 50-603472 | 450–450 | 04/05/2016 | — | 289.22 | 68.31 | — | 296.53 | — | — | — | — | — | — |
| 10643 | MD50-16-115181 | 50-613182 | 550–550 | 04/05/2016 | — | 150.90 | — | — | 212.51 | — | — | — | — | — | — |
| 10643 | MD50-16-115182 | 50-613182 | 632.5–632.5 | 04/05/2016 | — | — | — | — | — | — | — | — | — | — | — |
| 10643 | MD50-16-115112 | 50-24784 | 155–155 | 04/04/2016 | — | 169.76 | 322.05 | — | 93.90 | — | — | — | — | 55.42 | — |
| 10643 | MD50-16-115113 | 50-24784 | 244–244 | 04/04/2016 | — | 138.32 | 73.19 | — | 64.25 | — | — | — | — | — | — |
| 10643 | MD50-16-115114 | 50-24784 | 362–362 | 04/04/2016 | — | 370.95 | — | — | 177.92 | — | — | — | — | — | — |
| 10643 | MD50-16-115115 | 50-24784 | 450–450 | 04/04/2016 | — | 257.78 | — | — | 148.26 | — | — | — | — | — | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **na** | **665** | **470** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 10982 | MD50-16-126557 | 50-603503 | 133–133 | 10/28/2016 | — | — | — | — | 318.58 | — | — | — | 2094.49 | — |
| 10982 | MD50-16-126558 | 50-603503 | 237–237 | 10/28/2016 | — | — | — | — | 508.37 | — | — | — | 5263.08 | — |
| 10982 | MD50-16-126559 | 50-603503 | 347–347 | 10/28/2016 | — | — | — | — | 420.25 | — | — | — | 4726.03 | — |
| 10982 | MD50-16-126560 | 50-603503 | 450–450 | 10/28/2016 | — | — | — | — | 244.02 | — | — | — | 3061.18 | — |
| 10982 | MD50-16-126561 | 50-613185 | 145–145 | 10/27/2016 | — | — | — | — | 74.56 | — | — | — | 3759.34 | — |
| 10982 | MD50-16-126562 | 50-613185 | 235–235 | 10/27/2016 | — | — | — | — | 135.56 | — | — | — | 6981.63 | — |
| 10982 | MD50-16-126563 | 50-613185 | 350–350 | 10/27/2016 | — | — | — | — | — | — | — | — | 3114.88 | — |
| 10982 | MD50-16-126564 | 50-613185 | 450–450 | 10/27/2016 | — | — | — | — | — | — | — | — | 1772.26 | — |
| 10982 | MD50-16-126565 | 50-613185 | 600–600 | 10/27/2016 | — | — | — | — | — | — | — | — | 102.04 | — |
| 10982 | MD50-16-126525 | 50-603467 | 143–143 | 10/26/2016 | — | — | — | — | 366.02 | — | — | — | 11,278 | — |
| 10982 | MD50-16-126526 | 50-603467 | 244–244 | 10/26/2016 | — | — | 201.35 | — | 677.82 | — | — | — | 22,556 | — |
| 10982 | MD50-16-126527 | 50-603467 | 360–360 | 10/26/2016 | — | — | — | — | 745.60 | — | — | — | 25,778.3 | — |
| 10982 | MD50-16-126528 | 50-603467 | 500–500 | 10/26/2016 | — | — | — | — | 311.80 | — | — | — | 9666.88 | — |
| 10982 | MD50-16-126529 | 50-603467 | 600–600 | 10/26/2016 | — | — | — | — | 162.68 | — | — | — | 4726.03 | — |
| 10982 | MD50-16-126530 | 50-603468 | 142–142 | 10/25/2016 | — | — | — | — | 210.12 | — | — | — | 9666.88 | — |
| 10982 | MD50-16-126531 | 50-603468 | 233–233 | 10/25/2016 | — | — | 590.15 (J)[b] | — | 427.03 | — | — | — | 30,074.7 | — |
| 10982 | MD50-16-126532 | 50-603468 | 354–354 | 10/25/2016 | — | — | 343.68 (J) | — | 433.81 | — | — | — | 31,685.9 | — |
| 10982 | MD50-16-126533 | 50-603468 | 403–403 | 10/25/2016 | — | — | — | — | 413.47 | — | — | — | 32,222.9 | — |
| 10982 | MD50-16-126534 | 50-613184 | 500–500 | 10/25/2016 | — | — | — | — | 94.89 | — | — | — | 5907.54 | — |
| 10982 | MD50-16-126535 | 50-613184 | 600–600 | 10/25/2016 | — | — | — | — | — | — | — | — | 1127.8 | — |
| 10982 | MD50-16-126536 | 50-613184 | 664.5–664.5 | 10/25/2016 | — | — | — | — | — | — | — | — | 171.86 | — |
| 10982 | MD50-16-126497 | 50-24822 | 25–25 | 10/24/2016 | — | — | — | — | 149.12 | — | — | — | 5907.54 | — |
| 10982 | MD50-16-126498 | 50-24822 | 142–142 | 10/24/2016 | — | — | 166.63 | — | 210.12 | — | — | — | 22,02 | — |
| 10982 | MD50-16-126499 | 50-24822 | 235–235 | 10/24/2016 | — | — | 381.86 | — | 264.35 | — | — | — | 40,815.7 | — |
| 10982 | MD50-16-126500 | 50-24822 | 351–351 | 10/24/2016 | — | — | — | — | 149.12 | — | — | — | 22,019 | — |
| 10982 | MD50-16-126501 | 50-24822 | 450–450 | 10/24/2016 | — | — | — | — | — | — | — | — | 3114.88 | — |
| 10982 | MD50-16-126507 | 50-603062 | 122–122 | 10/21/2016 | — | — | — | — | — | 551.44 | 65.43 | — | 6444.58 | — |
| 10982 | MD50-16-126508 | 50-603062 | 217–217 | 10/21/2016 | — | — | — | — | — | 589.73 | 52.89 | — | 6981.63 | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **na** | **665** | **470** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 10982 | MD50-16-126509 | 50-603062 | 337–337 | 10/21/2016 | — | — | — | — | — | 222.11 | — | — | 2846.36 | — |
| 10982 | MD50-16-126510 | 50-603062 | 450–450 | 10/21/2016 | — | — | — | — | — | — | — | — | 912.98 | — |
| 10982 | MD50-16-126516 | 50-603064 | 113–113 | 10/20/2016 | — | — | — | — | 569.37 | 8424.77 | 1744.85 | — | 19,870.8 | — |
| 10982 | MD50-16-126517 | 50-603064 | 214–214 | 10/20/2016 | — | — | 451.29 | — | 637.15 | 13,786 | 2290.11 | — | 37,593.4 | 61.76 |
| 10982 | MD50-16-126518 | 50-603064 | 332–332 | 10/20/2016 | — | — | — | — | 291.46 | 5437.81 | 288.99 | — | 17,185.6 | 55.59 |
| 10982 | MD50-16-126519 | 50-603064 | 500–500 | 10/20/2016 | — | — | — | — | — | 444.22 | — | — | 2470.42 | — |
| 10982 | MD50-16-126502 | 50-603061 | 25–25 | 10/19/2016 | — | — | — | — | 101.67 | 7658.88 | 872.42 | — | 451.12 | — |
| 10982 | MD50-16-126503 | 50-603061 | 128–128 | 10/19/2016 | — | — | — | — | 318.58 | 25,274.3 | 3435.17 | — | 2524.13 | — |
| 10982 | MD50-16-126504 | 50-603061 | 228–228 | 10/19/2016 | — | — | — | — | 291.46 | 24,508.4 | 3598.75 | — | 4081.57 | — |
| 10982 | MD50-16-126505 | 50-603061 | 347–347 | 10/19/2016 | — | — | — | — | 128.79 | 9190.66 | 599.79 | — | 1825.97 | — |
| 10982 | MD50-16-126506 | 50-603061 | 450–450 | 10/19/2016 | — | — | — | — | — | 1531.78 | — | — | 429.64 | — |
| 10982 | MD50-16-126511 | 50-603063 | 25–25 | 10/18/2016 | — | — | — | — | 277.91 | 2067.90 | 212.65 | — | 1235.21 | — |
| 10982 | MD50-16-126512 | 50-603063 | 128–128 | 10/18/2016 | — | — | — | — | 1084.51 | 5514.39 | 708.84 | — | 10,741 | — |
| 10982 | MD50-16-126513 | 50-603063 | 228–228 | 10/18/2016 | — | — | - | — | 1830.11 | 7275.94 | 872.42 | — | 32,222.9 | 84.22 |
| 10982 | MD50-16-126514 | 50-603063 | 347–347 | 10/18/2016 | — | — | — | — | 948.95 | 1608.37 | 92.70 | — | 18,796.7 | 51.66 |
| 10982 | MD50-16-126515 | 50-603063 | 450–450 | 10/18/2016 | — | — | — | — | 338.91 | 268.06 | — | — | 8592.78 | — |
| 10982 | MD50-16-126520 | 50-603383 | 26–26 | 10/17/2016 | — | — | — | — | 881.17 | 1072.24 | 169.03 | — | 2900.06 | 56.15 |
| 10982 | MD50-16-126521 | 50-603383 | 139–139 | 10/17/2016 | — | — | — | — | 1220.08 | 1148.83 | 185.39 | — | 5263.08 | — |
| 10982 | MD50-16-126522 | 50-603383 | 244–244 | 10/17/2016 | — | — | — | — | 1694.55 | 919.07 | 185.39 | — | 7518.68 | — |
| 10982 | MD50-16-126523 | 50-603383 | 359–359 | 10/17/2016 | — | — | — | — | 325.35 | 145.52 | — | — | 1825.97 | — |
| 10982 | MD50-16-126524 | 50-603383 | 450–450 | 10/17/2016 | — | — | — | — | 393.14 | 206.79 | — | — | 2040.79 | — |
| 10982 | MD50-16-126491 | 50-24813 | 25–25 | 10/07/2016 | — | — | — | — | 284.68 | — | — | — | 7518.68 | — |
| 10982 | MD50-16-126492 | 50-24813 | 150–150 | 10/07/2016 | — | — | 274.25 | — | 467.70 | — | — | 152.70 | 29,000.6 | — |
| 10982 | MD50-16-126493 | 50-24813 | 241–241 | 10/07/2016 | — | — | 624.86 | — | 813.38 | 76.59 | — | — | 64,445.8 | — |
| 10982 | MD50-16-126494 | 50-24813 | 358–358 | 10/07/2016 | — | — | — | — | 508.37 | — | — | — | 46,723.2 | — |
| 10982 | MD50-16-126495 | 50-24813 | 450–450 | 10/07/2016 | — | — | — | — | 284.68 | — | — | — | 25,778.3 | — |
| 10982 | MD50-16-126496 | 50-24813 | 600–600 | 10/07/2016 | — | — | — | — | — | — | — | — | 3437.11 | — |
| 10982 | MD50-16-126537 | 50-603470 | 83–83 | 10/06/2016 | — | — | — | — | 745.60 | 275.72 | — | 81.79 | 11,815.1 | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **na** | **665** | **470** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 10982 | MD50-16-126538 | 50-603470 | 203–203 | 10/06/2016 | — | — | 520.72 | — | 515.14 | 742.91 | 109.05 | — | 34,371.1 | — |
| 10982 | MD50-16-126539 | 50-603470 | 278–278 | 10/06/2016 | — | — | 763.72 | — | 521.92 | 919.07 | 98.15 | — | 48,871.4 | — |
| 10982 | MD50-16-126540 | 50-603470 | 351–351 | 10/06/2016 | — | — | 416.58 | — | 366.02 | 673.98 | — | — | 38,130.5 | — |
| 10982 | MD50-16-126541 | 50-603470 | 450–450 | 10/06/2016 | — | — | — | — | 162.68 | 291.04 | — | — | 19,870.8 | — |
| 10982 | MD50-16-126542 | 50-603470 | 650–650 | 10/06/2016 | — | — | — | — | — | — | — | — | 145.00 | — |
| 10982 | MD50-16-126543 | 50-603471 | 90–90 | 10/05/2016 | — | — | — | — | 379.58 | 91.91 | — | — | 6981.63 | — |
| 10982 | MD50-16-126544 | 50-603471 | 209–209 | 10/05/2016 | — | — | 173.57 | — | 948.95 | 291.04 | — | — | 41,352.8 | — |
| 10982 | MD50-16-126545 | 50-603471 | 288–288 | 10/05/2016 | — | — | 1492.73 | — | 1220.08 | 490.17 | — | — | 52,093.7 | — |
| 10982 | MD50-16-126546 | 50-603471 | 360–360 | 10/05/2016 | — | — | 902.58 | — | 1016.73 | 405.92 | — | — | 46,186.2 | 56.15 |
| 10982 | MD50-16-126547 | 50-603471 | 450–450 | 10/05/2016 | — | — | 243.00 | — | 610.04 | 137.86 | — | — | 26,852.4 | — |
| 10982 | MD50-16-126548 | 50-613183 | 550–550 | 10/05/2016 | — | — | — | — | 101.67 | — | — | — | 4618.62 | — |
| 10982 | MD50-16-126549 | 50-613183 | 642.5–642.5 | 10/05/2016 | — | — | — | — | — | — | — | — | 112.78 | — |
| 10982 | MD50-16-126582 | 50-603471 | Unknown[d] | 10/05/2016 | — | — | 218.70 | — | 948.95 | 291.04 | — | 98.15 | 17,185.6 | — |
| 10982 | MD50-16-126550 | 50-603472 | 27–27 | 10/04/2016 | — | — | — | — | 433.81 | — | — | — | 2470.42 | — |
| 10982 | MD50-16-126551 | 50-603472 | 146–146 | 10/04/2016 | — | — | 381.86 | — | 677.82 | 107.22 | — | — | 11,815.1 | — |
| 10982 | MD50-16-126552 | 50-603472 | 292–292 | 10/04/2016 | — | — | 1006.72 | — | 1626.77 | 137.86 | — | — | 33,297 | 51.66 |
| 10982 | MD50-16-126553 | 50-603472 | 364–364 | 10/04/2016 | — | — | 416.58 | — | 1220.08 | 84.25 | — | — | 25,241.3 | — |
| 10982 | MD50-16-126554 | 50-603472 | 450–450 | 10/04/2016 | — | — | — | — | 345.69 | — | — | — | 7518.68 | — |
| 10982 | MD50-16-126555 | 50-613182 | 550–550 | 10/04/2016 | — | — | — | — | 176.23 | — | — | — | 3920.46 | — |
| 10982 | MD50-16-126556 | 50-613182 | 632.5–632.5 | 10/04/2016 | — | — | — | — | — | — | — | — | 64.45 | — |
| 10982 | MD50-16-126487 | 50-24784 | 155–155 | 10/03/2016 | — | — | — | — | 2101.24 | 130.20 | — | — | 3329.7 | — |
| 10982 | MD50-16-126488 | 50-24784 | 244–244 | 10/03/2016 | — | — | — | — | 1287.86 | 72.76 | — | — | 2363.01 | — |
| 10982 | MD50-16-126489 | 50-24784 | 362–362 | 10/03/2016 | — | — | — | — | 1220.08 | — | — | — | 2363.01 | — |
| 10982 | MD50-16-126490 | 50-24784 | 450–450 | 10/03/2016 | — | — | — | — | 515.14 | — | — | — | 1127.80 | — |
| 10643 | MD50-16-116404 | 50-603383 | 139–139 | 04/26/2016 | — | — | 41.66 | — | 1491.20 | 1072.24 | 218.11 | — | 5370.49 | — |
| 10643 | MD50-16-115122 | 50-24822 | 25–25 | 04/25/2016 | — | — | — | — | 155.90 | — | — | — | 6444.58 | — |
| 10643 | MD50-16-115123 | 50-24822 | 142–142 | 04/25/2016 | — | — | 152.74 | — | 223.68 | 145.52 | — | — | 23,630.1 | — |
| 10643 | MD50-16-115124 | 50-24822 | 235–235 | 04/25/2016 | — | — | 260.36 | — | 237.24 | 191.47 | — | — | 33,297 | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **na** | **665** | **470** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 10643 | MD50-16-115125 | 50-24822 | 351–351 | 04/25/2016 | — | — | 97.20 | — | 115.23 | 84.25 | — | — | 20,407.9 | — |
| 10643 | MD50-16-115126 | 50-24822 | 450–450 | 04/25/2016 | — | — | — | — | — | — | — | — | 9666.88 | — |
| 10643 | MD50-16-115187 | 50-613185 | 145–145 | 04/22/2016 | — | — | — | — | 81.34 | — | — | — | 3974.16 | — |
| 10643 | MD50-16-115188 | 50-613185 | 235–235 | 04/22/2016 | — | — | 55.54 | — | 115.23 | — | — | — | 6444.58 | — |
| 10643 | MD50-16-115189 | 50-613185 | 350–350 | 04/22/2016 | — | — | — | — | — | — | — | — | 3813.05 | — |
| 10643 | MD50-16-115190 | 50-613185 | 450–450 | 04/22/2016 | — | — | — | — | — | — | — | — | 1825.97 | — |
| 10643 | MD50-16-115191 | 50-613185 | 600–600 | 04/22/2016 | — | — | — | — | — | — | — | — | 177.23 | — |
| 10643 | MD50-16-115183 | 50-603503 | 133–133 | 04/21/2016 | — | — | — | 132.65 | 311.80 | — | — | — | 1933.38 | — |
| 10643 | MD50-16-115184 | 50-603503 | 237–237 | 04/21/2016 | — | — | 93.73 | — | 488.03 | — | — | — | 4779.73 | — |
| 10643 | MD50-16-115185 | 50-603503 | 347–347 | 04/21/2016 | — | — | 48.60 | — | 413.47 | — | — | — | 4027.87 | — |
| 10643 | MD50-16-115186 | 50-603503 | 450–450 | 04/21/2016 | — | — | — | — | 250.79 | — | — | — | 2846.36 | — |
| 10643 | MD50-16-115150 | 50-603467 | 143–143 | 04/20/2016 | — | — | 69.43 | — | 386.36 | — | — | — | 12,889.20 | — |
| 10643 | MD50-16-115151 | 50-603467 | 244–244 | 04/20/2016 | — | — | 183.99 | — | 745.60 | — | — | — | 24,704.20 | — |
| 10643 | MD50-16-115152 | 50-603467 | 360–360 | 04/20/2016 | — | — | — | — | 637.15 | — | — | — | 21,481.90 | — |
| 10643 | MD50-16-115153 | 50-603467 | 500–500 | 04/20/2016 | — | — | — | — | 210.12 | — | — | — | 6981.63 | — |
| 10643 | MD50-16-115154 | 50-603467 | 600–600 | 04/20/2016 | — | — | — | — | 81.34 | — | — | — | 2524.13 | — |
| 10643 | MD50-16-115155 | 50-603468 | 142–142 | 04/19/2016 | — | — | — | — | 264.35 | — | — | — | 13,426.20 | — |
| 10643 | MD50-16-115156 | 50-603468 | 233–233 | 04/19/2016 | — | — | 381.86 | — | 420.25 | — | — | — | 25,778.30 | — |
| 10643 | MD50-16-115157 | 50-603468 | 354–354 | 04/19/2016 | — | — | 236.06 | — | 393.14 | — | — | — | 26,315.40 | — |
| 10643 | MD50-16-115158 | 50-603468 | 403–403 | 04/19/2016 | — | — | 177.05 | — | 311.80 | — | — | — | 23,630.10 | — |
| 10643 | MD50-16-115159 | 50-613184 | 500–500 | 04/19/2016 | — | — | — | — | 81.34 | — | — | — | 4779.73 | — |
| 10643 | MD50-16-115160 | 50-613184 | 600–600 | 04/19/2016 | — | — | — | — | — | — | — | — | 859.28 | — |
| 10643 | MD50-16-115161 | 50-613184 | 664.5–664.5 | 04/19/2016 | — | — | — | — | — | — | — | — | 112.78 | — |
| 10643 | MD50-16-115132 | 50-603062 | 122–122 | 04/15/2016 | — | — | — | — | — | 413.58 | 54.53 | — | 6444.58 | — |
| 10643 | MD50-16-115133 | 50-603062 | 217–217 | 04/15/2016 | — | — | — | — | — | 559.10 | 65.43 | — | 7518.68 | — |
| 10643 | MD50-16-115134 | 50-603062 | 337–337 | 04/15/2016 | — | — | — | — | — | 153.18 | — | — | 2309.31 | — |
| 10643 | MD50-16-115135 | 50-603062 | 450–450 | 04/15/2016 | — | — | — | — | — | — | — | — | 698.16 | — |
| 10643 | MD50-16-115141 | 50-603064 | 113–113 | 04/14/2016 | — | — | 90.26 | — | 589.70 | 8424.77 | 2072.00 | — | 23,093.10 | — |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **na** | **665** | **470** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 10643 | MD50-16-115142 | 50-603064 | 214–214 | 04/14/2016 | — | — | 347.15 | — | 603.26 | 10,722.40 | 2181.06 | — | 34,371.10 | — |
| 10643 | MD50-16-115143 | 50-603064 | 332–332 | 04/14/2016 | — | — | 52.07 | — | 230.46 | 3676.26 | 223.56 | — | 13,963.30 | — |
| 10643 | MD50-16-115144 | 50-603064 | 500–500 | 04/14/2016 | — | — | — | — | — | 245.08 | — | — | 1772.26 | — |
| 10643 | MD50-16-115127 | 50-603061 | 25–25 | 04/13/2016 | — | — | — | — | 108.45 | 9956.55 | 1036.00 | — | 537.05 | — |
| 10643 | MD50-16-115128 | 50-603061 | 128–128 | 04/13/2016 | — | — | — | — | 318.58 | 27,572.00 | 3544.22 | — | 2792.65 | — |
| 10643 | MD50-16-115129 | 50-603061 | 228–228 | 04/13/2016 | — | — | 34.37 | — | 203.35 | 16,083.70 | 2399.16 | — | 3437.11 | — |
| 10643 | MD50-16-115130 | 50-603061 | 347–347 | 04/13/2016 | — | — | — | — | 94.89 | 6510.05 | 398.04 | — | 1450.03 | — |
| 10643 | MD50-16-115131 | 50-603061 | 450–450 | 04/13/2016 | — | — | — | — | — | 2374.25 | — | — | 805.57 | — |
| 10643 | MD50-16-115136 | 50-603063 | 25–25 | 04/12/2016 | — | — | — | — | 250.79 | 1838.13 | 174.49 | — | 1181.51 | — |
| 10643 | MD50-16-115137 | 50-603063 | 128–128 | 04/12/2016 | — | — | — | — | 1016.73 | 4901.68 | 654.32 | — | 9666.88 | — |
| 10643 | MD50-16-115138 | 50-603063 | 228–228 | 04/12/2016 | — | — | — | — | 1626.77 | 5744.16 | 654.32 | — | 25,778.30 | 61.76 |
| 10643 | MD50-16-115139 | 50-603063 | 347–347 | 04/12/2016 | — | — | — | — | 813.38 | 1378.60 | 76.34 | — | 16,648.50 | — |
| 10643 | MD50-16-115140 | 50-603063 | 450–450 | 04/12/2016 | — | — | — | — | 386.36 | 260.40 | — | — | 9666.88 | — |
| 10643 | MD50-16-115145 | 50-603383 | 26–26 | 04/11/2016 | — | — | — | — | 521.92 | 245.08 | 59.98 | — | 1450.03 | — |
| 10643 | MD50-16-115147 | 50-603383 | 244–244 | 04/11/2016 | — | — | 76.37 | — | 1558.99 | 919.07 | 185.39 | — | 6981.63 | — |
| 10643 | MD50-16-115148 | 50-603383 | 359–359 | 04/11/2016 | — | — | — | — | 569.37 | 329.33 | 51.80 | — | 3222.29 | — |
| 10643 | MD50-16-115149 | 50-603383 | 450–450 | 04/11/2016 | — | — | — | — | 332.13 | 291.04 | — | — | 1772.26 | — |
| 10643 | MD50-16-115116 | 50-24813 | 25–25 | 04/08/2016 | — | — | — | — | 372.80 | — | — | — | 10,741.00 | — |
| 10643 | MD50-16-115117 | 50-24813 | 150–150 | 04/08/2016 | — | — | 291.60 | — | 576.15 | — | — | 185.39 | 40,815.70 | — |
| 10643 | MD50-16-115118 | 50-24813 | 241–241 | 04/08/2016 | — | — | 763.72 | — | 813.38 | 84.25 | — | — | 80,557.30 | 49.97 |
| 10643 | MD50-16-115119 | 50-24813 | 358–358 | 04/08/2016 | — | — | 55.54 | — | 555.81 | — | — | — | 59,075.40 | 54.46 |
| 10643 | MD50-16-115120 | 50-24813 | 450–450 | 04/08/2016 | — | — | 90.26 | — | 169.46 | — | — | — | 15,574.40 | — |
| 10643 | MD50-16-115121 | 50-24813 | 600–600 | 04/08/2016 | — | — | — | — | — | — | — | — | 3866.75 | — |
| 10643 | MD50-16-115162 | 50-603470 | 83–83 | 04/07/2016 | — | — | 52.07 | — | 494.81 | 145.52 | — | 92.70 | 10,203.90 | — |
| 10643 | MD50-16-115163 | 50-603470 | 203–203 | 04/07/2016 | — | — | 590.15 | — | 508.37 | 842.48 | 125.41 | — | 41,889.80 | — |
| 10643 | MD50-16-115165 | 50-603470 | 351–351 | 04/07/2016 | — | — | 416.58 | — | 305.02 | 643.35 | — | — | 36519.30 | — |
| 10643 | MD50-16-115168 | 50-603470 | 650–650 | 04/07/2016 | — | — | — | — | — | — | — | — | 91.30 | — |
| 10643 | MD50-16-115164 | 50-603470 | 278–278 | 04/06/2016 | — | — | 763.72 | — | 488.03 | 919.07 | 109.05 | — | 53,704.90 | 56.15 |

**Table 5.2-2 (continued)**

| Sampling Plan 2016 | Field Sample ID | Location ID | Depth (ft) | Date | Hexane | Isooctane | Methylene Chloride | Propanol[2-] | Tetrachloroethene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **23,500,000** | **na** | **665** | **470** | **3630** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 10643 | MD50-16-115166 | 50-603470 | 450–450 | 04/06/2016 | — | — | 72.90 | — | 115.23 | 183.81 | — | — | 14,500.30 | — |
| 10643 | MD50-16-115169 | 50-603471 | 90–90 | 04/06/2016 | — | — | — | — | 203.35 | — | — | — | 2738.95 | — |
| 10643 | MD50-16-115170 | 50-603471 | 209–209 | 04/06/2016 | — | — | 416.58 | — | 542.26 | 137.86 | — | — | 18,796.70 | — |
| 10643 | MD50-16-115171 | 50-603471 | 288–288 | 04/06/2016 | — | — | 1492.73 | — | 1084.51 | 536.12 | — | — | 52,630.80 | 55.59 |
| 10643 | MD50-16-115172 | 50-603471 | 360–360 | 04/06/2016 | — | — | 763.72 | — | 948.95 | 306.36 | — | — | 44,038.00 | 53.90 |
| 10643 | MD50-16-115173 | 50-603471 | 450–450 | 04/06/2016 | — | — | 121.50 | — | 745.60 | 99.57 | — | — | 29,537.70 | — |
| 10643 | MD50-16-115174 | 50-613183 | 550–550 | 04/06/2016 | — | — | 48.60 | — | 88.12 | — | — | — | 3866.75 | — |
| 10643 | MD50-16-115175 | 50-613183 | 642.5–642.5 | 04/06/2016 | — | — | — | — | — | — | — | — | 107.41 | — |
| 10643 | MD50-16-115192 | 50-603471 | Unknown[c] | 04/06/2016 | — | — | 118.03 | — | 542.26 | 145.52 | — | — | 9666.88 | — |
| 10643 | MD50-16-115176 | 50-603472 | 27–27 | 04/05/2016 | — | — | — | — | 406.69 | — | — | — | 2524.13 | — |
| 10643 | MD50-16-115177 | 50-603472 | 146–146 | 04/05/2016 | — | — | 343.68 | — | 630.37 | 76.59 | — | — | 10,741.00 | — |
| 10643 | MD50-16-115178 | 50-603472 | 292–292 | 04/05/2016 | — | — | 902.58 | — | 1491.20 | 122.54 | — | — | 28,463.60 | — |
| 10643 | MD50-16-115179 | 50-603472 | 364–364 | 04/05/2016 | — | — | 319.38 | — | 881.17 | 76.59 | — | — | 18,796.70 | — |
| 10643 | MD50-16-115180 | 50-603472 | 450–450 | 04/05/2016 | — | — | 149.27 | — | 589.70 | — | — | — | 11,815.10 | — |
| 10643 | MD50-16-115181 | 50-613182 | 550–550 | 04/05/2016 | — | — | — | — | 162.68 | — | — | — | 3329.70 | — |
| 10643 | MD50-16-115182 | 50-613182 | 632.5–632.5 | 04/05/2016 | — | — | — | — | — | — | — | — | 64.45 | — |
| 10643 | MD50-16-115112 | 50-24784 | 155–155 | 04/04/2016 | 45.79 | 298.82 | — | — | 2033.46 | 137.86 | 49.07 | — | 3598.23 | — |
| 10643 | MD50-16-115113 | 50-24784 | 244–244 | 04/04/2016 | — | — | — | — | 948.95 | — | — | — | 2201.90 | — |
| 10643 | MD50-16-115114 | 50-24784 | 362–362 | 04/04/2016 | — | — | — | — | 1287.86 | — | — | — | 2900.06 | — |
| 10643 | MD50-16-115115 | 50-24784 | 450–450 | 04/04/2016 | — | — | — | — | 501.59 | — | — | — | 1074.10 | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] — = Not detected.

[c] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[d] Port was not labeled with the port depth.

**Table 5.2-3**
**VOC Pore-Gas Results at MDA C for FY 2015**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **478,000** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10429 | MD50-15-105183 | 50-24784 | 155–155 | 10/13/2015 | —[b] | 194.91 | 331.81 | — | 113.67 | — | — | — | — | 69.28 | — |
| 10429 | MD50-15-105184 | 50-24784 | 244–244 | 10/13/2015 | — | 232.63 | 112.23 | — | 118.61 | — | — | — | — | 43.41 | — |
| 10429 | MD50-15-105185 | 50-24784 | 362–362 | 10/13/2015 | — | 358.38 | — | — | 187.80 | — | — | — | — | — | — |
| 10429 | MD50-15-105186 | 50-24784 | 450–450 | 10/13/2015 | — | 320.65 | — | — | 202.63 | — | — | — | — | — | — |
| 10429 | MD50-15-105188 | 50-24813 | 150–150 | 10/22/2015 | — | 1571.83 | 2976.55 | — | 593.06 | — | 101.12 | — | 554.73 | 83.13 | — |
| 10429 | MD50-15-105187 | 50-24813 | 25–25 | 10/22/2015 | — | 1131.71 | 1024.71 | — | 217.45 | — | — | — | 51.51 | — | — |
| 10429 | MD50-15-105189 | 50-24813 | 241–241 | 10/22/2015 | — | 1320.33 | 1659.06 | — | 988.43 | — | — | — | 475.48 | — | — |
| 10429 | MD50-15-105190 | 50-24813 | 358–358 | 10/22/2015 | — | 754.48 | 536.75 | — | 988.43 | — | — | — | 190.19 | — | — |
| 10429 | MD50-15-105191 | 50-24813 | 450–450 | 10/22/2015 | — | 528.13 | 161.03 | — | 790.74 | — | — | — | 63.40 | — | — |
| 10429 | MD50-15-105192 | 50-24813 | 600–600 | 10/22/2015 | — | 150.90 | — | — | 326.18 | — | — | — | — | — | — |
| 10429 | MD50-15-105193 | 50-24822 | 25–25 | 10/27/2015 | — | — | 248.86 | — | 133.44 | — | — | — | — | — | — |
| 10429 | MD50-15-105194 | 50-24822 | 142–142 | 10/27/2015 | — | 188.62 | 585.55 | — | 494.21 | — | — | — | 122.83 | — | — |
| 10429 | MD50-15-105195 | 50-24822 | 235–235 | 10/27/2015 | — | 245.21 | 487.96 | — | 691.90 | — | — | — | 142.65 | — | — |
| 10429 | MD50-15-105196 | 50-24822 | 351–351 | 10/27/2015 | — | 182.33 | 156.15 | — | 593.06 | — | — | — | 51.51 | — | — |
| 10429 | MD50-15-105197 | 50-24822 | 450–450 | 10/27/2015 | — | 100.60 | — | — | 400.31 | — | — | — | — | — | — |
| 10429 | MD50-15-105198 | 50-603061 | 25–25 | 10/21/2015 | — | — | — | — | 459.62 | — | — | 198.12 | — | — | — |
| 10429 | MD50-15-105199 | 50-603061 | 128–128 | 10/21/2015 | 59.13 | — | — | — | 350.89 | — | — | 1466.07 | — | — | — |
| 10429 | MD50-15-105200 | 50-603061 | 228–228 | 10/21/2015 | — | 132.03 | 53.68 | — | 306.41 | — | — | 1426.45 | — | — | — |
| 10429 | MD50-15-105201 | 50-603061 | 347–347 | 10/21/2015 | — | 125.75 | — | — | 266.88 | — | — | 309.06 | — | — | — |
| 10429 | MD50-15-105202 | 50-603061 | 450–450 | 10/21/2015 | — | 69.16 | — | — | 172.97 | — | — | 83.21 | — | — | — |
| 10429 | MD50-15-105203 | 50-603062 | 122–122 | 10/26/2015 | — | — | 68.31 | — | 172.97 | — | — | — | — | — | — |
| 10429 | MD50-15-105204 | 50-603062 | 217–217 | 10/26/2015 | — | — | — | — | 207.57 | — | — | — | — | — | — |
| 10429 | MD50-15-105205 | 50-603062 | 337–337 | 10/26/2015 | — | — | — | — | 158.15 | — | — | — | — | — | — |
| 10429 | MD50-15-105206 | 50-603062 | 450–450 | 10/26/2015 | — | — | — | — | 88.96 | — | — | — | — | — | — |
| 10429 | MD50-15-105207 | 50-603063 | 25–25 | 10/23/2015 | — | — | — | — | 158.15 | — | — | 51.51 | — | — | — |
| 10429 | MD50-15-105208 | 50-603063 | 128–128 | 10/23/2015 | — | 119.46 | 283.02 | — | 365.72 | 68.76 | — | 297.18 | — | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **478,000** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10429 | MD50-15-105209 | 50-603063 | 228–228 | 10/23/2015 | — | 289.22 | 585.55 | — | 543.63 | 56.63 | — | 396.24 | 134.72 | — | — |
| 10429 | MD50-15-105210 | 50-603063 | 347–347 | 10/23/2015 | — | 207.48 | 258.62 | — | 316.30 | — | — | 71.32 | 39.62 | — | — |
| 10429 | MD50-15-105211 | 50-603063 | 450–450 | 10/23/2015 | — | 125.75 | 146.39 | — | 237.22 | — | — | — | — | — | — |
| 10429 | MD50-15-105212 | 50-603064 | 113–113 | 10/16/2015 | — | 182.33 | 878.33 | — | 434.91 | — | — | 554.73 | 221.89 | 46.18 | — |
| 10429 | MD50-15-105213 | 50-603064 | 214–214 | 10/16/2015 | — | 333.23 | 683.14 | — | 741.32 | — | — | 713.23 | 257.55 | — | — |
| 10429 | MD50-15-105214 | 50-603064 | 332–332 | 10/16/2015 | — | 201.19 | 68.31 | — | 464.56 | — | — | 130.76 | — | — | 69.67 |
| 10429 | MD50-15-105215 | 50-603064 | 500–500 | 10/16/2015 | — | 75.45 | — | — | 256.99 | — | — | — | — | — | — |
| 10429 | MD50-15-105216 | 50-603383 | 26–26 | 10/20/2015 | — | 75.45 | 97.59 | — | 261.93 | — | — | 47.55 | — | 46.18 | — |
| 10429 | MD50-15-105217 | 50-603383 | 139–139 | 10/20/2015 | — | 138.32 | 195.18 | — | 286.64 | — | — | 95.10 | 39.23 | 258.63 | — |
| 10429 | MD50-15-105218 | 50-603383 | 244–244 | 10/20/2015 | — | 276.64 | 190.30 | — | 341.01 | — | — | 99.06 | 71.32 | 415.66 | — |
| 10429 | MD50-15-105219 | 50-603383 | 359–359 | 10/20/2015 | — | 163.47 | — | — | 227.34 | — | — | — | — | 50.80 | — |
| 10429 | MD50-15-105220 | 50-603383 | 450–450 | 10/20/2015 | — | 150.90 | — | — | 207.57 | — | — | — | — | — | — |
| 10429 | MD50-15-105221 | 50-603467 | 143–143 | 10/29/2015 | — | 320.65 | 585.55 | — | 271.82 | — | — | — | 126.80 | — | — |
| 10429 | MD50-15-105222 | 50-603467 | 244–244 | 10/29/2015 | — | 452.69 | 683.14 | — | 311.35 | — | — | — | 186.23 | — | — |
| 10429 | MD50-15-105223 | 50-603467 | 360–360 | 10/29/2015 | — | 333.23 | 322.05 | — | 296.53 | — | — | — | 95.10 | — | — |
| 10429 | MD50-15-105224 | 50-603467 | 500–500 | 10/29/2015 | — | 150.90 | 53.68 | — | 177.92 | — | — | — | — | — | — |
| 10429 | MD50-15-105225 | 50-603467 | 600–600 | 10/29/2015 | — | 94.31 | — | — | 148.26 | — | — | — | — | — | — |
| 10429 | MD50-15-105226 | 50-603468 | 142–142 | 10/28/2015 | — | 144.61 | 473.32 | — | 316.30 | — | — | — | 138.68 | — | — |
| 10429 | MD50-15-105227 | 50-603468 | 233–233 | 10/28/2015 | — | 301.79 | 585.55 | — | 494.21 | — | — | — | 194.16 | — | — |
| 10429 | MD50-15-105228 | 50-603468 | 354–354 | 10/28/2015 | — | 333.23 | 390.37 | — | 543.63 | — | — | — | 138.68 | — | — |
| 10429 | MD50-15-105229 | 50-603468 | 403–403 | 10/28/2015 | — | 289.22 | 239.10 | — | 543.63 | — | — | — | 95.10 | — | — |
| 10429 | MD50-15-105233 | 50-603470 | 83–83 | 10/19/2015 | — | 308.08 | 1073.51 | — | 256.99 | — | — | — | 154.53 | — | — |
| 10429 | MD50-15-105234 | 50-603470 | 203–203 | 10/19/2015 | — | 396.10 | 1073.51 | — | 691.90 | — | — | — | 289.25 | — | — |
| 10429 | MD50-15-105235 | 50-603470 | 278–278 | 10/19/2015 | — | 484.12 | 780.73 | — | 889.58 | — | — | — | 269.44 | — | — |
| 10429 | MD50-15-105236 | 50-603470 | 351–351 | 10/19/2015 | — | 414.96 | 322.05 | — | 790.74 | — | — | — | 130.76 | — | — |
| 10429 | MD50-15-105237 | 50-603470 | 450–450 | 10/19/2015 | — | 333.23 | 112.23 | — | 741.32 | — | — | — | 47.55 | — | — |
| 10429 | MD50-15-105239 | 50-603470 | 650–650 | 10/19/2015 | — | — | — | — | 79.07 | — | — | — | — | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **478,000** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 10429 | MD50-15-105240 | 50-603471 | 90–90 | 10/15/2015 | — | 817.35 | 1122.30 | — | 128.50 | — | 56.63 | — | 87.17 | — | — |
| 10429 | MD50-15-105241 | 50-603471 | 209–209 | 10/15/2015 | — | 817.35 | 1805.45 | — | 395.37 | — | 133.48 | — | 435.86 | 101.61 | — |
| 10429 | MD50-15-105242 | 50-603471 | 288–288 | 10/15/2015 | — | 1068.84 | 1512.67 | — | 790.74 | — | — | — | 435.86 | — | — |
| 10429 | MD50-15-105243 | 50-603471 | 360–360 | 10/15/2015 | — | 754.48 | 683.14 | — | 790.74 | — | — | — | 233.78 | — | — |
| 10429 | MD50-15-105244 | 50-603471 | 450–450 | 10/15/2015 | — | 553.28 | 585.55 | — | 459.62 | — | — | — | 166.42 | — | — |
| 10429 | MD50-15-105398 | 50-603471 | Unknown[c] | 10/15/2015 | — | 1383.21 | 1805.45 | — | 227.34 | — | 133.48 | — | 229.82 | 87.75 | — |
| 10429 | MD50-15-105248 | 50-603472 | 146–146 | 10/14/2015 | — | 194.91 | 585.55 | — | 128.50 | — | 52.58 | — | 118.87 | 92.37 | — |
| 10429 | MD50-15-105247 | 50-603472 | 27–27 | 10/14/2015 | — | — | 243.98 | — | — | — | — | — | — | — | — |
| 10429 | MD50-15-105249 | 50-603472 | 292–292 | 10/14/2015 | — | 521.85 | 683.14 | — | 405.25 | — | — | — | 194.16 | 60.04 | — |
| 10429 | MD50-15-105250 | 50-603472 | 364–364 | 10/14/2015 | — | 465.26 | 214.70 | — | 415.14 | — | — | — | 67.36 | — | — |
| 10429 | MD50-15-105251 | 50-603472 | 450–450 | 10/14/2015 | — | 333.23 | 73.19 | — | 341.01 | — | — | — | — | — | — |
| 10429 | MD50-15-105254 | 50-603503 | 133–133 | 10/30/2015 | — | — | 102.47 | — | 54.36 | — | — | — | — | — | — |
| 10429 | MD50-15-105255 | 50-603503 | 237–237 | 10/30/2015 | — | — | 131.75 | — | 74.13 | — | — | — | — | — | — |
| 10429 | MD50-15-105256 | 50-603503 | 347–347 | 10/30/2015 | — | — | 53.68 | — | 69.19 | — | — | — | — | — | — |
| 10429 | MD50-15-105257 | 50-603503 | 450–450 | 10/30/2015 | — | — | — | — | 69.19 | — | — | — | — | — | — |
| 10429 | MD50-15-105252 | 50-613182 | 550–550 | 10/14/2015 | — | 188.62 | — | — | 266.88 | — | — | — | — | — | — |
| 10429 | MD50-15-105253 | 50-613182 | 632.5–632.5 | 10/14/2015 | — | — | — | — | — | — | — | — | — | — | — |
| 10429 | MD50-15-105245 | 50-613183 | 550–550 | 10/15/2015 | — | 213.77 | — | — | 439.85 | — | — | — | — | — | — |
| 10429 | MD50-15-105246 | 50-613183 | 642.5–642.5 | 10/15/2015 | — | — | — | — | — | — | — | — | — | — | — |
| 10429 | MD50-15-105230 | 50-613184 | 500–500 | 10/28/2015 | — | 75.45 | — | — | 247.11 | — | — | — | — | — | — |
| 10429 | MD50-15-105231 | 50-613184 | 600–600 | 10/28/2015 | — | — | — | — | 128.50 | — | — | — | — | — | — |
| 10429 | MD50-15-105232 | 50-613184 | 664.5–664.5 | 10/28/2015 | — | — | — | — | — | — | — | — | — | — | — |
| 10429 | MD50-15-105258 | 50-613185 | 145–145 | 11/02/2015 | — | — | 87.83 | — | 93.90 | — | — | — | — | — | — |
| 10429 | MD50-15-105259 | 50-613185 | 235–235 | 11/02/2015 | — | 81.73 | 92.71 | — | 153.21 | — | — | — | — | — | — |
| 10429 | MD50-15-105260 | 50-613185 | 350–350 | 11/02/2015 | — | — | — | — | 138.38 | — | — | — | — | — | — |
| 10429 | MD50-15-105261 | 50-613185 | 450–450 | 11/02/2015 | — | — | — | — | 123.55 | — | — | — | — | — | — |
| 10429 | MD50-15-105262 | 50-613185 | 600–600 | 11/02/2015 | — | — | — | — | 49.42 | — | — | — | — | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **478,000** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 8110 | MD50-15-92946 | 50-24784 | 155–155 | 03/23/2015 | — | 150.90 | 278.14 | — | 93.90 | — | — | — | — | 55.42 | — |
| 8110 | MD50-15-92947 | 50-24784 | 244–244 | 03/23/2015 | — | 213.77 | 107.35 | — | 113.67 | — | — | — | — | 40.18 | — |
| 8110 | MD50-15-92948 | 50-24784 | 362–362 | 03/23/2015 | — | 326.94 | — | — | 158.15 | — | — | — | — | — | — |
| 8110 | MD50-15-92949 | 50-24784 | 450–450 | 03/23/2015 | — | 226.34 | — | — | 143.32 | — | — | — | — | — | — |
| 8110 | MD50-15-92951 | 50-24813 | 150–150 | 04/15/2015 | — | 1320.33 | 2537.38 | — | 489.27 | — | 84.94 | — | 475.48 | 69.28 | — |
| 8110 | MD50-15-92952 | 50-24813 | 241–241 | 04/15/2015 | — | 1571.83 | 2000.63 | — | 1136.69 | — | — | — | 554.73 | — | — |
| 8110 | MD50-15-92950 | 50-24813 | 25–25 | 04/15/2015 | — | 1005.97 | 927.12 | — | 182.86 | — | — | — | 51.51 | — | — |
| 8110 | MD50-15-92953 | 50-24813 | 358–358 | 04/15/2015 | — | 754.48 | 536.75 | — | 889.58 | — | — | — | 182.27 | — | — |
| 8110 | MD50-15-92954 | 50-24813 | 450–450 | 04/15/2015 | — | 414.96 | 121.99 | — | 593.06 | — | — | — | 47.55 | — | — |
| 8110 | MD50-15-92955 | 50-24813 | 600–600 | 04/15/2015 | — | 106.88 | — | — | 256.99 | — | — | — | — | — | — |
| 8110 | MD50-15-92957 | 50-24822 | 142–142 | 04/13/2015 | — | 176.04 | 458.68 | — | 395.37 | — | — | — | 95.10 | — | — |
| 8110 | MD50-15-92958 | 50-24822 | 235–235 | 04/13/2015 | — | 251.49 | 424.52 | — | 593.06 | — | — | — | 114.91 | — | — |
| 8110 | MD50-15-92956 | 50-24822 | 25–25 | 04/13/2015 | — | — | 156.15 | — | 88.96 | — | — | — | — | — | — |
| 8110 | MD50-15-92959 | 50-24822 | 351–351 | 04/13/2015 | — | 201.19 | 136.63 | — | 494.21 | — | — | — | — | — | — |
| 8110 | MD50-15-92960 | 50-24822 | 450–450 | 04/13/2015 | — | 81.73 | — | — | 247.11 | — | — | — | — | — | — |
| 8110 | MD50-15-92962 | 50-603061 | 128–128 | 04/01/2015 | — | 62.87 | 63.43 | — | 375.60 | — | — | 1426.45 | — | — | — |
| 8110 | MD50-15-92963 | 50-603061 | 228–228 | 04/01/2015 | — | 113.17 | — | — | 261.93 | — | — | 1149.09 | — | — | — |
| 8110 | MD50-15-92961 | 50-603061 | 25–25 | 04/01/2015 | — | — | — | — | 444.79 | — | — | 198.12 | — | — | — |
| 8110 | MD50-15-92964 | 50-603061 | 347–347 | 04/01/2015 | — | 106.88 | — | — | 212.51 | — | — | 237.74 | — | — | — |
| 8110 | MD50-15-92965 | 50-603061 | 450–450 | 04/01/2015 | — | — | — | — | 148.26 | — | — | 67.36 | — | — | — |
| 8110 | MD50-15-92966 | 50-603062 | 122–122 | 03/31/2015 | — | — | 58.56 | — | 158.15 | — | — | — | — | — | — |
| 8110 | MD50-15-92967 | 50-603062 | 217–217 | 03/31/2015 | — | — | 47.33 | — | 212.51 | — | — | — | — | — | — |
| 8110 | MD50-15-92968 | 50-603062 | 337–337 | 03/31/2015 | — | — | — | — | 143.32 | — | — | — | — | — | — |
| 8110 | MD50-15-92969 | 50-603062 | 450–450 | 03/31/2015 | — | — | — | — | 88.96 | — | — | — | — | — | — |
| 8110 | MD50-15-92971 | 50-603063 | 128–128 | 04/03/2015 | — | 157.18 | 278.14 | — | 326.18 | 68.76 | — | 229.82 | — | — | — |
| 8110 | MD50-15-92972 | 50-603063 | 228–228 | 04/03/2015 | — | 414.96 | 585.55 | — | 593.06 | 64.72 | — | 360.58 | 130.76 | — | — |
| 8110 | MD50-15-92970 | 50-603063 | 25–25 | 04/03/2015 | — | — | — | — | 123.55 | — | — | — | — | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **478,000** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 8110 | MD50-15-92973 | 50-603063 | 347–347 | 04/03/2015 | — | 201.19 | 195.18 | 99.76 | 247.11 | — | — | 47.55 | — | — | — |
| 8110 | MD50-15-92974 | 50-603063 | 450–450 | 04/03/2015 | — | 163.47 | 136.63 | — | 227.34 | — | — | — | — | — | — |
| 8110 | MD50-15-92975 | 50-603064 | 113–113 | 04/02/2015 | — | 169.76 | 780.73 | — | 410.20 | — | — | 515.11 | 190.19 | 55.42 | — |
| 8110 | MD50-15-92976 | 50-603064 | 214–214 | 04/02/2015 | — | 295.50 | 585.55 | — | 593.06 | — | — | 673.60 | 190.19 | — | — |
| 8110 | MD50-15-92977 | 50-603064 | 332–332 | 04/02/2015 | — | 176.04 | 73.19 | — | 415.14 | — | — | 130.76 | — | — | — |
| 8110 | MD50-15-92978 | 50-603064 | 500–500 | 04/02/2015 | — | — | — | — | 202.63 | — | — | — | — | — | — |
| 8110 | MD50-15-92980 | 50-603383 | 139–139 | 03/30/2015 | — | 182.33 | 170.79 | — | 237.22 | — | — | 63.40 | — | 235.54 | — |
| 8110 | MD50-15-92981 | 50-603383 | 244–244 | 03/30/2015 | — | 320.65 | 165.91 | — | 286.64 | — | — | 75.28 | 55.47 | 378.71 | — |
| 8110 | MD50-15-92979 | 50-603383 | 26–26 | 03/30/2015 | — | — | — | — | 69.19 | — | — | — | — | — | — |
| 8110 | MD50-15-92982 | 50-603383 | 359–359 | 03/30/2015 | — | 194.91 | — | — | 187.80 | — | — | — | — | — | — |
| 8110 | MD50-15-92983 | 50-603383 | 450–450 | 03/30/2015 | — | 182.33 | — | — | 182.86 | — | — | — | — | — | — |
| 8110 | MD50-15-92984 | 50-603467 | 143–143 | 04/08/2015 | — | 377.24 | 536.75 | — | 227.34 | — | — | — | 118.87 | — | — |
| 8110 | MD50-15-92985 | 50-603467 | 244–244 | 04/08/2015 | — | 509.27 | 634.35 | — | 286.64 | — | — | — | 166.42 | — | — |
| 8110 | MD50-15-92986 | 50-603467 | 360–360 | 04/08/2015 | — | 414.96 | 283.02 | — | 256.99 | — | — | — | 79.25 | — | — |
| 8110 | MD50-15-92987 | 50-603467 | 500–500 | 04/08/2015 | — | 201.19 | — | — | 192.74 | — | — | — | — | — | — |
| 8110 | MD50-15-92988 | 50-603467 | 600–600 | 04/08/2015 | — | 113.17 | — | — | 128.50 | — | — | — | — | — | — |
| 8110 | MD50-15-92989 | 50-603468 | 142–142 | 04/07/2015 | — | 295.50 | 429.40 | — | 286.64 | — | — | — | 114.91 | — | — |
| 8110 | MD50-15-92990 | 50-603468 | 233–233 | 04/07/2015 | — | 471.55 | 536.75 | — | 400.31 | — | — | — | 142.65 | — | — |
| 8110 | MD50-15-92991 | 50-603468 | 354–354 | 04/07/2015 | — | 471.55 | 322.05 | — | 494.21 | — | — | — | 118.87 | — | — |
| 8110 | MD50-15-92992 | 50-603468 | 403–403 | 04/07/2015 | — | 427.54 | 204.94 | — | 474.44 | — | — | — | 75.28 | — | — |
| 8110 | MD50-15-92997 | 50-603470 | 203–203 | 03/26/2015 | — | 326.94 | 878.33 | — | 543.63 | — | — | — | 241.70 | — | — |
| 8110 | MD50-15-92998 | 50-603470 | 278–278 | 03/26/2015 | — | 440.11 | 780.73 | — | 790.74 | — | — | — | 237.74 | — | — |
| 8110 | MD50-15-92999 | 50-603470 | 351–351 | 03/26/2015 | — | 383.53 | 331.81 | — | 741.32 | — | — | — | 118.87 | — | — |
| 8110 | MD50-15-93000 | 50-603470 | 450–450 | 03/26/2015 | — | 245.21 | 87.83 | — | 543.63 | — | — | — | — | — | — |
| 8110 | MD50-15-93002 | 50-603470 | 650–650 | 03/26/2015 | — | — | — | — | — | — | — | — | — | — | — |
| 8110 | MD50-15-92996 | 50-603470 | 83–83 | 03/26/2015 | — | 201.19 | 683.14 | — | 148.26 | — | — | — | 99.06 | — | — |
| 8110 | MD50-15-93004 | 50-603471 | 209–209 | 03/25/2015 | — | 754.48 | 1268.69 | — | 593.06 | — | 44.49 | — | 324.91 | 60.04 | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Carbon Disulfide | Carbon Tetrachloride | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **478,000** | **5650** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** |
| 8110 | MD50-15-93005 | 50-603471 | 288–288 | 03/25/2015 | — | 628.73 | 927.12 | — | 494.21 | — | — | — | 253.59 | 46.18 | — |
| 8110 | MD50-15-93006 | 50-603471 | 360–360 | 03/25/2015 | — | 817.35 | 683.14 | — | 741.32 | — | — | — | 202.08 | — | — |
| 8110 | MD50-15-93007 | 50-603471 | 450–450 | 03/25/2015 | — | 389.81 | 351.33 | — | 385.49 | — | — | — | 99.06 | — | — |
| 8110 | MD50-15-93003 | 50-603471 | 90–90 | 03/25/2015 | — | 943.10 | 1219.90 | — | 133.44 | — | 68.76 | — | 126.80 | 46.18 | — |
| 8110 | MD50-15-93331 | 50-603471 | Unknown | 03/25/2015 | — | 1320.33 | 1659.06 | — | 227.34 | — | 105.17 | — | 206.04 | 78.51 | — |
| 8110 | MD50-15-93011 | 50-603472 | 146–146 | 03/24/2015 | — | 176.04 | 487.96 | — | 128.50 | — | 36.00 | — | 99.06 | 92.37 | — |
| 8110 | MD50-15-93010 | 50-603472 | 27–27 | 03/24/2015 | — | — | 175.67 | — | — | — | — | — | — | — | — |
| 8110 | MD50-15-93012 | 50-603472 | 292–292 | 03/24/2015 | — | 320.65 | 409.89 | — | 242.16 | — | — | — | 99.06 | — | — |
| 8110 | MD50-15-93013 | 50-603472 | 364–364 | 03/24/2015 | — | 377.24 | 170.79 | — | 326.18 | — | — | — | 55.47 | — | — |
| 8110 | MD50-15-93014 | 50-603472 | 450–450 | 03/24/2015 | — | 157.18 | — | — | 163.09 | — | — | — | — | — | — |
| 8110 | MD50-15-93017 | 50-603503 | 133–133 | 04/09/2015 | — | — | 102.47 | — | 44.97 | — | — | — | — | 40.64 | — |
| 8110 | MD50-15-93018 | 50-603503 | 237–237 | 04/09/2015 | — | 88.02 | 117.11 | — | 69.19 | — | — | — | — | 46.18 | — |
| 8110 | MD50-15-93019 | 50-603503 | 347–347 | 04/09/2015 | — | 81.73 | 53.68 | — | 79.07 | — | — | — | — | — | — |
| 8110 | MD50-15-93020 | 50-603503 | 450–450 | 04/09/2015 | — | 69.16 | — | — | 64.25 | — | — | — | — | — | — |
| 8110 | MD50-15-93015 | 50-613182 | 550–550 | 03/24/2015 | — | 113.17 | — | — | 187.80 | — | — | — | — | — | — |
| 8110 | MD50-15-93008 | 50-613183 | 550–550 | 03/25/2015 | — | 150.90 | — | — | 336.06 | — | — | — | — | — | — |
| 8110 | MD50-15-93009 | 50-613183 | 642.5–642.5 | 03/25/2015 | — | — | — | — | — | — | — | — | — | — | — |
| 8110 | MD50-15-92993 | 50-613184 | 500–500 | 04/07/2015 | — | 138.32 | — | — | 217.45 | — | — | — | — | — | — |
| 8110 | MD50-15-92994 | 50-613184 | 600–600 | 04/07/2015 | — | — | — | — | 93.90 | — | — | — | — | — | — |
| 8110 | MD50-15-92995 | 50-613184 | 664.5–664.5 | 04/07/2015 | — | — | — | — | — | — | — | — | — | — | — |
| 8110 | MD50-15-93021 | 50-613185 | 145–145 | 04/10/2015 | — | 62.87 | 92.71 | — | 84.02 | — | — | — | — | — | — |
| 8110 | MD50-15-93022 | 50-613185 | 235–235 | 04/10/2015 | — | 106.88 | 82.95 | — | 133.44 | — | — | — | — | — | — |
| 8110 | MD50-15-93023 | 50-613185 | 350–350 | 04/10/2015 | — | 81.73 | — | — | 128.50 | — | — | — | — | — | — |
| 8110 | MD50-15-93024 | 50-613185 | 450–450 | 04/10/2015 | — | — | — | — | 98.84 | — | — | — | — | — | — |
| 8110 | MD50-15-93025 | 50-613185 | 600–600 | 04/10/2015 | — | — | — | — | — | — | — | — | — | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 10429 | MD50-15-105183 | 50-24784 | 155–155 | 10/13/2015 | — | 2236.81 | — | — | 137.86 | 51.25 | — | 3651.93 | — | 52.07 |
| 10429 | MD50-15-105184 | 50-24784 | 244–244 | 10/13/2015 | — | 1694.55 | — | — | 84.25 | — | — | 3276.00 | — | — |
| 10429 | MD50-15-105185 | 50-24784 | 362–362 | 10/13/2015 | — | 1423.42 | — | — | — | — | — | 2846.36 | — | — |
| 10429 | MD50-15-105186 | 50-24784 | 450–450 | 10/13/2015 | — | 630.37 | — | — | — | — | — | 1342.62 | — | — |
| 10429 | MD50-15-105188 | 50-24813 | 150–150 | 10/22/2015 | 416.58 | 657.49 | — | — | — | — | 212.65 | 42426.90 | — | — |
| 10429 | MD50-15-105189 | 50-24813 | 241–241 | 10/22/2015 | 590.15 | 745.60 | — | — | — | — | — | 59075.40 | — | — |
| 10429 | MD50-15-105187 | 50-24813 | 25–25 | 10/22/2015 | — | 447.36 | — | — | — | — | — | 11815.10 | — | — |
| 10429 | MD50-15-105190 | 50-24813 | 358–358 | 10/22/2015 | — | 515.14 | — | — | — | — | — | 45649.10 | — | — |
| 10429 | MD50-15-105191 | 50-24813 | 450–450 | 10/22/2015 | 149.27 | 338.91 | — | — | — | — | — | 31148.80 | — | — |
| 10429 | MD50-15-105192 | 50-24813 | 600–600 | 10/22/2015 | — | — | — | — | — | — | — | 4081.57 | — | — |
| 10429 | MD50-15-105194 | 50-24822 | 142–142 | 10/27/2015 | 159.69 | 203.35 | — | — | 145.52 | — | — | 20944.90 | — | — |
| 10429 | MD50-15-105195 | 50-24822 | 235–235 | 10/27/2015 | 270.77 | 230.46 | — | — | 176.15 | — | — | 30074.70 | — | — |
| 10429 | MD50-15-105193 | 50-24822 | 25–25 | 10/27/2015 | — | 135.56 | — | — | — | — | — | 5907.54 | — | — |
| 10429 | MD50-15-105196 | 50-24822 | 351–351 | 10/27/2015 | 121.50 | 115.23 | — | — | 84.25 | — | — | 19333.80 | — | — |
| 10429 | MD50-15-105197 | 50-24822 | 450–450 | 10/27/2015 | — | — | — | — | — | — | — | 9129.83 | — | — |
| 10429 | MD50-15-105199 | 50-603061 | 128–128 | 10/21/2015 | — | 345.69 | — | — | 26806.10 | 3980.43 | — | 2846.36 | — | — |
| 10429 | MD50-15-105200 | 50-603061 | 228–228 | 10/21/2015 | 48.60 | 311.80 | — | — | 22976.60 | 3707.80 | — | 4511.21 | — | — |
| 10429 | MD50-15-105198 | 50-603061 | 25–25 | 10/21/2015 | — | 135.56 | — | — | 9956.55 | 1199.58 | — | 537.05 | — | — |
| 10429 | MD50-15-105201 | 50-603061 | 347–347 | 10/21/2015 | — | 135.56 | — | — | 8424.77 | 599.79 | — | 1879.67 | — | — |
| 10429 | MD50-15-105202 | 50-603061 | 450–450 | 10/21/2015 | — | — | — | — | 2604.02 | 70.88 | — | 805.57 | — | — |
| 10429 | MD50-15-105203 | 50-603062 | 122–122 | 10/26/2015 | — | — | — | — | 413.58 | — | — | 5263.08 | — | — |
| 10429 | MD50-15-105204 | 50-603062 | 217–217 | 10/26/2015 | — | — | — | — | 482.51 | — | — | 5907.54 | — | — |
| 10429 | MD50-15-105205 | 50-603062 | 337–337 | 10/26/2015 | — | — | — | — | 122.54 | — | — | 2040.79 | — | — |
| 10429 | MD50-15-105206 | 50-603062 | 450–450 | 10/26/2015 | — | — | — | — | — | — | — | 644.46 | — | — |
| 10429 | MD50-15-105208 | 50-603063 | 128–128 | 10/23/2015 | — | 881.17 | — | — | 4288.97 | 518.00 | — | 7518.68 | — | — |
| 10429 | MD50-15-105209 | 50-603063 | 228–228 | 10/23/2015 | — | 1626.77 | — | — | 5131.45 | 599.79 | — | 21481.90 | 55.59 | — |
| 10429 | MD50-15-105207 | 50-603063 | 25–25 | 10/23/2015 | — | 332.13 | — | — | 2144.49 | 190.84 | — | 1181.51 | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 10429 | MD50-15-105210 | 50-603063 | 347–347 | 10/23/2015 | — | 745.60 | — | — | 1148.83 | 54.53 | — | 12889.20 | — | — |
| 10429 | MD50-15-105211 | 50-603063 | 450–450 | 10/23/2015 | — | 352.47 | — | — | 206.79 | — | — | 7518.68 | — | — |
| 10429 | MD50-15-105212 | 50-603064 | 113–113 | 10/16/2015 | 111.09 | 630.37 | — | — | 9956.55 | 2235.58 | — | 23630.10 | — | — |
| 10429 | MD50-15-105213 | 50-603064 | 214–214 | 10/16/2015 | 451.29 | 637.15 | — | — | 13020.10 | 2290.11 | — | 37056.40 | 61.76 | — |
| 10429 | MD50-15-105214 | 50-603064 | 332–332 | 10/16/2015 | 62.49 | 196.57 | — | — | 3369.91 | 190.84 | — | 12352.10 | — | — |
| 10429 | MD50-15-105215 | 50-603064 | 500–500 | 10/16/2015 | — | — | — | — | 283.38 | — | — | 1933.38 | — | — |
| 10429 | MD50-15-105217 | 50-603383 | 139–139 | 10/20/2015 | 48.60 | 1287.86 | — | — | 1148.83 | 174.49 | — | 4457.50 | — | — |
| 10429 | MD50-15-105218 | 50-603383 | 244–244 | 10/20/2015 | 83.32 | 1626.77 | — | — | 919.07 | 158.13 | — | 6444.58 | — | — |
| 10429 | MD50-15-105216 | 50-603383 | 26–26 | 10/20/2015 | — | 745.60 | — | — | 842.48 | 114.51 | — | 1987.08 | — | — |
| 10429 | MD50-15-105219 | 50-603383 | 359–359 | 10/20/2015 | — | 555.81 | — | — | 298.70 | — | — | 2524.13 | — | — |
| 10429 | MD50-15-105220 | 50-603383 | 450–450 | 10/20/2015 | — | 271.13 | — | — | 398.26 | — | — | 1396.33 | — | — |
| 10429 | MD50-15-105221 | 50-603467 | 143–143 | 10/29/2015 | 38.19 | 474.47 | — | — | — | — | — | 16648.50 | — | — |
| 10429 | MD50-15-105222 | 50-603467 | 244–244 | 10/29/2015 | 166.63 | 745.60 | — | — | — | — | — | 22556.00 | — | — |
| 10429 | MD50-15-105223 | 50-603467 | 360–360 | 10/29/2015 | — | 637.15 | — | — | — | — | — | 19870.80 | — | — |
| 10429 | MD50-15-105224 | 50-603467 | 500–500 | 10/29/2015 | — | 264.35 | — | — | — | — | — | 7518.68 | — | — |
| 10429 | MD50-15-105225 | 50-603467 | 600–600 | 10/29/2015 | — | 149.12 | 35.37 | — | — | — | — | 3866.75 | — | — |
| 10429 | MD50-15-105226 | 50-603468 | 142–142 | 10/28/2015 | 65.96 | 311.80 | — | — | — | — | — | 19333.80 | — | — |
| 10429 | MD50-15-105227 | 50-603468 | 233–233 | 10/28/2015 | 451.29 | 427.03 | — | — | — | — | — | 25778.30 | — | — |
| 10429 | MD50-15-105228 | 50-603468 | 354–354 | 10/28/2015 | 302.02 | 399.91 | — | — | — | — | — | 26852.40 | — | — |
| 10429 | MD50-15-105229 | 50-603468 | 403–403 | 10/28/2015 | 215.23 | 332.13 | — | — | — | — | — | 22019.00 | — | — |
| 10429 | MD50-15-105234 | 50-603470 | 203–203 | 10/19/2015 | 486.01 | 528.70 | — | — | 727.59 | 103.60 | — | 37593.40 | — | — |
| 10429 | MD50-15-105235 | 50-603470 | 278–278 | 10/19/2015 | 624.86 | 481.25 | — | — | 727.59 | — | — | 44575.00 | — | — |
| 10429 | MD50-15-105236 | 50-603470 | 351–351 | 10/19/2015 | 336.73 | 311.80 | — | — | 505.49 | — | — | 33834.10 | — | — |
| 10429 | MD50-15-105237 | 50-603470 | 450–450 | 10/19/2015 | 114.56 | 189.79 | — | — | 283.38 | — | — | 23093.10 | — | — |
| 10429 | MD50-15-105239 | 50-603470 | 650–650 | 10/19/2015 | — | — | — | — | — | — | — | 102.04 | — | — |
| 10429 | MD50-15-105233 | 50-603470 | 83–83 | 10/19/2015 | 48.60 | 813.38 | — | — | 275.72 | 65.43 | 103.60 | 14500.30 | — | — |
| 10429 | MD50-15-105241 | 50-603471 | 209–209 | 10/15/2015 | 1145.58 | 1152.29 | — | — | 306.36 | 53.44 | 53.44 | 43500.90 | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 10429 | MD50-15-105242 | 50-603471 | 288–288 | 10/15/2015 | 1527.44 | 1152.29 | — | — | 490.17 | — | — | 51556.70 | — | — |
| 10429 | MD50-15-105243 | 50-603471 | 360–360 | 10/15/2015 | 729.01 | 948.95 | — | — | 291.04 | — | — | 42426.90 | — | — |
| 10429 | MD50-15-105244 | 50-603471 | 450–450 | 10/15/2015 | 232.59 | 813.38 | — | — | 176.15 | — | — | 36519.30 | — | — |
| 10429 | MD50-15-105240 | 50-603471 | 90–90 | 10/15/2015 | 34.71 | 562.59 | — | — | 137.86 | — | — | 6981.63 | — | — |
| 10429 | MD50-15-105398 | 50-603471 | Unknown[c] | 10/15/2015 | 215.23 | 948.95 | — | — | 260.40 | 50.71 | 114.51 | 16648.50 | — | — |
| 10429 | MD50-15-105248 | 50-603472 | 146–146 | 10/14/2015 | 347.15 | 745.60 | — | — | 107.22 | — | — | 11815.10 | — | — |
| 10429 | MD50-15-105247 | 50-603472 | 27–27 | 10/14/2015 | — | 467.70 | — | — | — | 51.25 | — | 2470.42 | — | — |
| 10429 | MD50-15-105249 | 50-603472 | 292–292 | 10/14/2015 | 902.58 | 1694.55 | — | — | 137.86 | — | — | 31148.80 | — | — |
| 10429 | MD50-15-105250 | 50-603472 | 364–364 | 10/14/2015 | 326.32 | 1084.51 | — | — | — | — | — | 22019.00 | — | — |
| 10429 | MD50-15-105251 | 50-603472 | 450–450 | 10/14/2015 | 97.20 | 745.60 | — | — | — | — | — | 13426.20 | — | — |
| 10429 | MD50-15-105254 | 50-603503 | 133–133 | 10/30/2015 | 45.13 | 440.58 | — | — | 107.22 | — | — | 1825.97 | — | — |
| 10429 | MD50-15-105255 | 50-603503 | 237–237 | 10/30/2015 | 124.97 | 501.59 | — | — | — | — | — | 4350.09 | — | — |
| 10429 | MD50-15-105256 | 50-603503 | 347–347 | 10/30/2015 | 62.49 | 338.91 | — | — | — | — | — | 3061.18 | — | — |
| 10429 | MD50-15-105257 | 50-603503 | 450–450 | 10/30/2015 | — | 216.90 | — | — | — | — | — | 2470.42 | — | — |
| 10429 | MD50-15-105252 | 50-613182 | 550–550 | 10/14/2015 | — | 196.57 | — | — | — | — | — | 3651.93 | — | — |
| 10429 | MD50-15-105253 | 50-613182 | 632.5–632.5 | 10/14/2015 | — | — | — | — | — | — | — | 53.17 | — | — |
| 10429 | MD50-15-105245 | 50-613183 | 550–550 | 10/15/2015 | — | 108.45 | — | — | — | — | — | 4887.14 | — | — |
| 10429 | MD50-15-105246 | 50-613183 | 642.5–642.5 | 10/15/2015 | — | — | — | 52.73 | — | — | — | 118.15 | — | 47.73 |
| 10429 | MD50-15-105230 | 50-613184 | 500–500 | 10/28/2015 | — | 67.78 | — | — | — | — | — | 4403.80 | — | — |
| 10429 | MD50-15-105231 | 50-613184 | 600–600 | 10/28/2015 | — | — | — | — | — | — | — | 859.28 | — | — |
| 10429 | MD50-15-105232 | 50-613184 | 664.5–664.5 | 10/28/2015 | — | — | — | — | — | — | — | 145.00 | — | — |
| 10429 | MD50-15-105258 | 50-613185 | 145–145 | 11/02/2015 | 48.60 | 67.78 | — | — | — | — | — | 3651.93 | — | — |
| 10429 | MD50-15-105259 | 50-613185 | 235–235 | 11/02/2015 | 79.84 | 122.01 | — | — | — | — | — | 6444.58 | — | — |
| 10429 | MD50-15-105260 | 50-613185 | 350–350 | 11/02/2015 | — | 67.78 | — | — | — | — | — | 3490.82 | — | — |
| 10429 | MD50-15-105261 | 50-613185 | 450–450 | 11/02/2015 | — | — | — | — | — | — | — | 1611.15 | — | — |
| 10429 | MD50-15-105262 | 50-613185 | 600–600 | 11/02/2015 | — | — | — | — | — | — | — | 145.00 | — | — |
| 8110 | MD50-15-92946 | 50-24784 | 155–155 | 03/23/2015 | — | 2033.46 | — | — | 137.86 | — | — | 2900.06 | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 8110 | MD50-15-92947 | 50-24784 | 244–244 | 03/23/2015 | — | 1965.68 | — | — | 91.91 | — | — | 3168.59 | — | — |
| 8110 | MD50-15-92948 | 50-24784 | 362–362 | 03/23/2015 | — | 1287.86 | — | — | — | — | — | 2255.60 | — | — |
| 8110 | MD50-15-92949 | 50-24784 | 450–450 | 03/23/2015 | — | 501.59 | — | — | — | — | — | 966.69 | — | — |
| 8110 | MD50-15-92951 | 50-24813 | 150–150 | 04/15/2015 | 381.86 | 589.70 | — | — | — | — | — | 35445.20 | — | — |
| 8110 | MD50-15-92952 | 50-24813 | 241–241 | 04/15/2015 | 729.01 | 881.17 | — | — | — | — | — | 69816.30 | — | — |
| 8110 | MD50-15-92950 | 50-24813 | 25–25 | 04/15/2015 | — | 393.14 | — | — | — | — | — | 10203.90 | — | — |
| 8110 | MD50-15-92953 | 50-24813 | 358–358 | 04/15/2015 | 41.66 | 549.03 | — | — | — | — | — | 48871.40 | — | — |
| 8110 | MD50-15-92954 | 50-24813 | 450–450 | 04/15/2015 | 131.92 | 277.91 | — | — | — | — | — | 24167.20 | — | — |
| 8110 | MD50-15-92955 | 50-24813 | 600–600 | 04/15/2015 | — | — | — | — | — | — | — | 2900.06 | — | — |
| 8110 | MD50-15-92957 | 50-24822 | 142–142 | 04/13/2015 | 138.86 | 162.68 | — | — | 130.20 | — | — | 18796.70 | — | — |
| 8110 | MD50-15-92958 | 50-24822 | 235–235 | 04/13/2015 | 256.89 | 203.35 | — | — | 176.15 | — | — | 29000.60 | — | — |
| 8110 | MD50-15-92956 | 50-24822 | 25–25 | 04/13/2015 | — | 94.89 | — | — | — | — | — | 4027.87 | — | — |
| 8110 | MD50-15-92959 | 50-24822 | 351–351 | 04/13/2015 | 107.62 | 101.67 | — | — | 84.25 | — | — | 18259.70 | — | — |
| 8110 | MD50-15-92960 | 50-24822 | 450–450 | 04/13/2015 | — | — | — | — | — | — | — | 6444.58 | — | — |
| 8110 | MD50-15-92962 | 50-603061 | 128–128 | 04/01/2015 | — | 311.80 | — | — | 26806.10 | 4034.96 | — | 2631.54 | — | — |
| 8110 | MD50-15-92963 | 50-603061 | 228–228 | 04/01/2015 | 38.19 | 244.02 | — | — | 19913.10 | 3162.53 | — | 3544.52 | — | — |
| 8110 | MD50-15-92961 | 50-603061 | 25–25 | 04/01/2015 | — | 122.01 | — | — | 9956.55 | 1199.58 | — | 531.68 | — | — |
| 8110 | MD50-15-92964 | 50-603061 | 347–347 | 04/01/2015 | — | 108.45 | — | — | 7122.76 | 518.00 | — | 1503.74 | — | — |
| 8110 | MD50-15-92965 | 50-603061 | 450–450 | 04/01/2015 | — | — | — | — | 2067.90 | 59.98 | — | 698.16 | — | — |
| 8110 | MD50-15-92966 | 50-603062 | 122–122 | 03/31/2015 | — | — | — | — | 390.60 | — | — | 5048.26 | — | — |
| 8110 | MD50-15-92967 | 50-603062 | 217–217 | 03/31/2015 | — | — | — | — | 536.12 | — | — | 6444.58 | — | — |
| 8110 | MD50-15-92968 | 50-603062 | 337–337 | 03/31/2015 | — | — | — | — | 145.52 | — | — | 1987.08 | — | — |
| 8110 | MD50-15-92969 | 50-603062 | 450–450 | 03/31/2015 | — | — | — | — | — | — | — | 590.75 | — | — |
| 8110 | MD50-15-92971 | 50-603063 | 128–128 | 04/03/2015 | — | 948.95 | — | — | 4595.33 | 599.79 | — | 8055.73 | — | — |
| 8110 | MD50-15-92972 | 50-603063 | 228–228 | 04/03/2015 | — | 1897.90 | — | — | 6280.28 | 708.84 | — | 24704.20 | 61.76 | — |
| 8110 | MD50-15-92970 | 50-603063 | 25–25 | 04/03/2015 | — | 277.91 | — | — | 1838.13 | 185.39 | — | 966.69 | — | — |
| 8110 | MD50-15-92973 | 50-603063 | 347–347 | 04/03/2015 | — | 589.70 | — | — | 995.66 | — | — | 10741.00 | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 8110 | MD50-15-92974 | 50-603063 | 450–450 | 04/03/2015 | — | 345.69 | — | — | 183.81 | — | — | 7518.68 | — | — |
| 8110 | MD50-15-92975 | 50-603064 | 113–113 | 04/02/2015 | 90.26 | 589.70 | — | — | 9956.55 | 1908.43 | — | 22556.00 | — | — |
| 8110 | MD50-15-92976 | 50-603064 | 214–214 | 04/02/2015 | 347.15 | 596.48 | — | — | 12254.20 | 1908.43 | — | 33297.00 | 55.03 | — |
| 8110 | MD50-15-92977 | 50-603064 | 332–332 | 04/02/2015 | 48.60 | 203.35 | — | — | 3446.50 | 169.03 | — | 11815.10 | — | — |
| 8110 | MD50-15-92978 | 50-603064 | 500–500 | 04/02/2015 | — | — | — | — | 222.11 | — | — | 1396.33 | — | — |
| 8110 | MD50-15-92980 | 50-603383 | 139–139 | 03/30/2015 | — | 1152.29 | — | — | 1225.42 | 174.49 | — | 4135.27 | — | — |
| 8110 | MD50-15-92981 | 50-603383 | 244–244 | 03/30/2015 | 59.01 | 1558.99 | — | — | 919.07 | 185.39 | — | 5907.54 | — | — |
| 8110 | MD50-15-92979 | 50-603383 | 26–26 | 03/30/2015 | — | 216.90 | — | — | 199.13 | — | — | 386.68 | — | — |
| 8110 | MD50-15-92982 | 50-603383 | 359–359 | 03/30/2015 | — | 488.03 | — | — | 428.90 | — | — | 2148.19 | — | — |
| 8110 | MD50-15-92983 | 50-603383 | 450–450 | 03/30/2015 | — | 298.24 | — | — | 214.45 | — | — | 1288.92 | — | — |
| 8110 | MD50-15-92984 | 50-603467 | 143–143 | 04/08/2015 | — | 474.47 | — | — | — | — | — | 17185.60 | — | — |
| 8110 | MD50-15-92985 | 50-603467 | 244–244 | 04/08/2015 | 166.63 | 813.38 | — | — | — | — | — | 24167.20 | — | — |
| 8110 | MD50-15-92986 | 50-603467 | 360–360 | 04/08/2015 | — | 637.15 | — | — | — | — | — | 20407.90 | — | — |
| 8110 | MD50-15-92987 | 50-603467 | 500–500 | 04/08/2015 | — | 264.35 | — | — | — | — | — | 8055.73 | — | — |
| 8110 | MD50-15-92988 | 50-603467 | 600–600 | 04/08/2015 | — | 122.01 | 53.05 | — | — | — | — | 3813.05 | — | — |
| 8110 | MD50-15-92989 | 50-603468 | 142–142 | 04/07/2015 | 65.96 | 298.24 | — | — | — | — | — | 20407.90 | — | — |
| 8110 | MD50-15-92990 | 50-603468 | 233–233 | 04/07/2015 | 381.86 | 393.14 | — | — | — | — | — | 24704.20 | — | — |
| 8110 | MD50-15-92991 | 50-603468 | 354–354 | 04/07/2015 | 263.83 | 366.02 | — | — | — | — | — | 25241.30 | — | — |
| 8110 | MD50-15-92992 | 50-603468 | 403–403 | 04/07/2015 | 190.93 | 311.80 | — | — | — | — | — | 22019.00 | — | — |
| 8110 | MD50-15-92997 | 50-603470 | 203–203 | 03/26/2015 | 381.86 | 481.25 | — | — | 574.42 | 81.79 | — | 31148.80 | — | — |
| 8110 | MD50-15-92998 | 50-603470 | 278–278 | 03/26/2015 | 590.15 | 460.92 | — | — | 712.28 | 76.34 | — | 40815.70 | — | — |
| 8110 | MD50-15-92999 | 50-603470 | 351–351 | 03/26/2015 | 315.90 | 311.80 | — | — | 528.46 | — | — | 31685.90 | — | — |
| 8110 | MD50-15-93000 | 50-603470 | 450–450 | 03/26/2015 | 79.84 | 155.90 | — | — | 245.08 | — | — | 17185.60 | — | — |
| 8110 | MD50-15-93002 | 50-603470 | 650–650 | 03/26/2015 | — | — | — | — | — | — | — | 52.63 | — | — |
| 8110 | MD50-15-92996 | 50-603470 | 83–83 | 03/26/2015 | — | 576.15 | — | — | 191.47 | — | — | 8592.78 | — | — |
| 8110 | MD50-15-93004 | 50-603471 | 209–209 | 03/25/2015 | 451.29 | 1084.51 | — | — | 291.04 | — | — | 45112.10 | — | — |
| 8110 | MD50-15-93005 | 50-603471 | 288–288 | 03/25/2015 | 972.01 | 813.38 | — | — | 291.04 | — | — | 34371.10 | — | — |

**Table 5.2-3 (continued)**

| Sampling Plan 2015 | Field Sample ID | Location ID | Depth (ft) | Date | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier 1 SL** | | | | | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** | **40,900** |
| 8110 | MD50-15-93006 | 50-603471 | 360–360 | 03/25/2015 | 729.01 | 1016.73 | — | — | 321.67 | — | — | 42426.90 | — | — |
| 8110 | MD50-15-93007 | 50-603471 | 450–450 | 03/25/2015 | 183.99 | 603.26 | — | — | 99.57 | — | — | 24167.20 | — | — |
| 8110 | MD50-15-93003 | 50-603471 | 90–90 | 03/25/2015 | 86.79 | 677.82 | — | — | 183.81 | — | — | 10741.00 | — | — |
| 8110 | MD50-15-93331 | 50-603471 | Unknown | 03/25/2015 | 215.23 | 948.95 | — | — | 268.06 | — | — | 17185.60 | — | — |
| 8110 | MD50-15-93011 | 50-603472 | 146–146 | 03/24/2015 | 291.60 | 745.60 | — | — | 91.91 | — | — | 10203.90 | — | — |
| 8110 | MD50-15-93010 | 50-603472 | 27–27 | 03/24/2015 | — | 386.36 | — | — | — | — | — | 1825.97 | — | — |
| 8110 | MD50-15-93012 | 50-603472 | 292–292 | 03/24/2015 | 520.72 | 1084.51 | — | — | 84.25 | — | — | 18259.70 | — | — |
| 8110 | MD50-15-93013 | 50-603472 | 364–364 | 03/24/2015 | 243.00 | 948.95 | — | — | — | — | — | 17185.60 | — | — |
| 8110 | MD50-15-93014 | 50-603472 | 450–450 | 03/24/2015 | 41.66 | 345.69 | — | — | — | — | — | 5907.54 | — | — |
| 8110 | MD50-15-93017 | 50-603503 | 133–133 | 04/09/2015 | 30.2017 (J) | 352.47 | — | — | 76.59 | — | — | 1825.97 | — | — |
| 8110 | MD50-15-93018 | 50-603503 | 237–237 | 04/09/2015 | 100.67 | 535.48 | — | — | — | — | — | 4296.39 | — | — |
| 8110 | MD50-15-93019 | 50-603503 | 347–347 | 04/09/2015 | 45.13 | 352.47 | — | — | — | — | — | 3222.29 | — | — |
| 8110 | MD50-15-93020 | 50-603503 | 450–450 | 04/09/2015 | — | 250.79 | — | — | — | — | — | 2309.31 | — | — |
| 8110 | MD50-15-93015 | 50-613182 | 550–550 | 03/24/2015 | — | 155.90 | — | — | — | — | — | 2577.83 | — | — |
| 8110 | MD50-15-93008 | 50-613183 | 550–550 | 03/25/2015 | — | 94.89 | — | — | — | — | — | 3705.64 | — | — |
| 8110 | MD50-15-93009 | 50-613183 | 642.5–642.5 | 03/25/2015 | — | — | — | — | — | — | — | 85.93 | — | — |
| 8110 | MD50-15-92993 | 50-613184 | 500–500 | 04/07/2015 | — | — | — | — | — | — | — | 4135.27 | — | — |
| 8110 | MD50-15-92994 | 50-613184 | 600–600 | 04/07/2015 | — | — | — | — | — | — | — | 537.05 | — | — |
| 8110 | MD50-15-92995 | 50-613184 | 664.5–664.5 | 04/07/2015 | — | — | — | — | — | — | — | 128.89 | — | — |
| 8110 | MD50-15-93021 | 50-613185 | 145–145 | 04/10/2015 | — | 67.78 | — | — | — | — | — | 3598.23 | — | — |
| 8110 | MD50-15-93022 | 50-613185 | 235–235 | 04/10/2015 | 55.54 | 122.01 | — | — | — | — | — | 5907.54 | — | — |
| 8110 | MD50-15-93023 | 50-613185 | 350–350 | 04/10/2015 | — | — | — | — | — | — | — | 3490.82 | — | — |
| 8110 | MD50-15-93024 | 50-613185 | 450–450 | 04/10/2015 | — | — | — | — | — | — | — | 1503.74 | — | — |
| 8110 | MD50-15-93025 | 50-613185 | 600–600 | 04/10/2015 | — | — | — | — | — | — | — | 128.89 | — | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] — = Not detected.

[c] Port was not labeled with the port depth.

**Table 5.2-4**
**VOC Pore-Gas Results at MDA C for FY 2014**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorobenzene[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **47,200** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** |
| 6945 | MD50-14-87706 | 50-603064 | 113–113 | 11/10/2014 | —[a] | — | 138.32 | — | 731.94 | — | 410.20 | — | — | 554.73 | 182.27 | — |
| 6945 | MD50-14-87707 | 50-603064 | 214–214 | 11/10/2014 | — | — | 276.64 | — | 536.75 | — | 642.48 | — | — | 713.23 | 190.19 | — |
| 6945 | MD50-14-87708 | 50-603064 | 332–332 | 11/10/2014 | — | — | 176.04 | — | 68.31 | — | 444.79 | — | — | 154.53 | — | — |
| 6945 | MD50-14-87709 | 50-603064 | 500–500 | 11/10/2014 | — | — | — | — | — | — | 187.80 | — | — | — | — | — |
| 6945 | MD50-14-87752 | 50-613185 | 145–145 | 11/07/2014 | — | — | 75.45 | — | 87.83 | — | 93.90 | — | — | — | — | — |
| 6945 | MD50-14-87753 | 50-613185 | 235–235 | 11/07/2014 | — | — | 113.17 | — | 97.59 | — | 143.32 | — | — | — | — | — |
| 6945 | MD50-14-87754 | 50-613185 | 350–350 | 11/07/2014 | — | — | 81.73 | — | — | — | 108.73 | — | — | — | — | — |
| 6945 | MD50-14-87755 | 50-613185 | 450–450 | 11/07/2014 | — | — | — | — | — | — | 69.19 | — | — | — | — | — |
| 6945 | MD50-14-87756 | 50-613185 | 600–600 | 11/07/2014 | — | — | — | — | — | — | 49.42 | — | — | — | — | — |
| 6945 | MD50-14-87748 | 50-603503 | 133–133 | 11/06/2014 | — | — | — | — | 87.83 | — | — | — | — | — | — | — |
| 6945 | MD50-14-87749 | 50-603503 | 237–237 | 11/06/2014 | — | — | 100.60 | — | 141.51 | — | 69.19 | — | — | — | — | — |
| 6945 | MD50-14-87750 | 50-603503 | 347–347 | 11/06/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 6945 | MD50-14-87751 | 50-603503 | 450–450 | 11/06/2014 | — | — | 81.73 | — | — | — | 74.13 | — | — | — | — | — |
| 6945 | MD50-14-87720 | 50-603468 | 142–142 | 11/05/2014 | — | — | 194.91 | — | 341.57 | — | 113.67 | — | — | — | 87.17 | — |
| 6945 | MD50-14-87721 | 50-603468 | 233–233 | 11/05/2014 | — | — | 477.84 | — | 487.96 | — | 390.43 | — | — | — | 166.42 | — |
| 6945 | MD50-14-87722 | 50-603468 | 354–354 | 11/05/2014 | — | — | 496.70 | — | 326.93 | — | 494.21 | — | — | — | 118.87 | — |
| 6945 | MD50-14-87723 | 50-603468 | 403–403 | 11/05/2014 | — | — | 414.96 | — | 195.18 | — | 474.44 | — | — | — | 79.25 | — |
| 6945 | MD50-14-87724 | 50-613184 | 500–500 | 11/05/2014 | — | — | 125.75 | — | — | — | 217.45 | — | — | — | — | — |
| 6945 | MD50-14-87725 | 50-613184 | 600–600 | 11/05/2014 | — | — | — | — | — | — | 113.67 | — | — | — | — | — |
| 6945 | MD50-14-87726 | 50-613184 | 664.5–664.5 | 11/05/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 6945 | MD50-14-87715 | 50-603467 | 143–143 | 11/04/2014 | — | — | 389.81 | — | 585.55 | — | 217.45 | — | — | — | 122.83 | — |
| 6945 | MD50-14-87716 | 50-603467 | 244–244 | 11/04/2014 | — | — | 572.14 | — | 683.14 | — | 326.18 | — | — | — | 166.42 | — |
| 6945 | MD50-14-87717 | 50-603467 | 360–360 | 11/04/2014 | — | — | 421.25 | — | 370.85 | — | 301.47 | — | — | — | 95.10 | — |
| 6945 | MD50-14-87718 | 50-603467 | 500–500 | 11/04/2014 | — | — | 201.19 | — | — | — | 202.63 | — | — | — | — | — |
| 6945 | MD50-14-87719 | 50-603467 | 600–600 | 11/04/2014 | — | — | 119.46 | — | — | — | 153.21 | — | — | — | — | — |
| 6945 | MD50-14-87687 | 50-24822 | 25–25 | 11/03/2014 | — | — | 75.45 | — | 273.26 | — | 158.15 | — | — | — | — | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorobenzene[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **47,200** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** |
| 6945 | MD50-14-87688 | 50-24822 | 142–142 | 11/03/2014 | — | — | 251.49 | — | 585.55 | — | 543.63 | — | — | — | 114.91 | — |
| 6945 | MD50-14-87689 | 50-24822 | 235–235 | 11/03/2014 | — | — | 301.79 | — | 487.96 | — | 691.90 | — | — | — | 118.87 | — |
| 6945 | MD50-14-87690 | 50-24822 | 351–351 | 11/03/2014 | — | — | 213.77 | — | 141.51 | — | 593.06 | — | — | — | 43.59 | — |
| 6945 | MD50-14-87691 | 50-24822 | 450–450 | 11/03/2014 | — | — | 138.32 | — | — | — | 400.31 | — | — | — | — | — |
| 6945 | MD50-14-87692 | 50-603061 | 25–25 | 10/30/2014 | — | — | — | — | — | — | 360.78 | — | — | 166.42 | — | — |
| 6945 | MD50-14-87693 | 50-603061 | 128–128 | 10/30/2014 | — | — | — | — | — | — | 296.53 | — | — | 1267.96 | — | — |
| 6945 | MD50-14-87694 | 50-603061 | 228–228 | 10/30/2014 | — | — | — | — | — | — | 128.50 | — | — | 713.23 | — | — |
| 6945 | MD50-14-87695 | 50-603061 | 347–347 | 10/30/2014 | — | — | 88.02 | — | — | — | 182.86 | — | — | 221.89 | — | — |
| 6945 | MD50-14-87696 | 50-603061 | 450–450 | 10/30/2014 | — | — | — | — | — | — | 93.90 | — | — | — | — | — |
| 6945 | MD50-14-87701 | 50-603063 | 25–25 | 10/29/2014 | — | — | — | — | — | — | 163.09 | — | — | — | — | — |
| 6945 | MD50-14-87702 | 50-603063 | 128–128 | 10/29/2014 | — | — | 144.61 | — | 292.78 | — | 370.66 | 64.72 | — | 245.67 | — | — |
| 6945 | MD50-14-87703 | 50-603063 | 228–228 | 10/29/2014 | — | — | 333.23 | — | 536.75 | — | 543.63 | 52.58 | — | 348.69 | 118.87 | — |
| 6945 | MD50-14-87704 | 50-603063 | 347–347 | 10/29/2014 | — | — | 251.49 | — | 253.74 | — | 331.12 | — | — | 67.36 | 43.59 | — |
| 6945 | MD50-14-87705 | 50-603063 | 450–450 | 10/29/2014 | — | — | 176.04 | — | 156.15 | — | 266.88 | — | — | — | — | — |
| 6945 | MD50-14-87697 | 50-603062 | 122–122 | 10/28/2014 | — | — | — | — | 58.56 | — | 163.09 | — | — | — | — | — |
| 6945 | MD50-14-87698 | 50-603062 | 217–217 | 10/28/2014 | — | — | — | — | — | — | 222.40 | — | — | — | — | — |
| 6945 | MD50-14-87699 | 50-603062 | 337–337 | 10/28/2014 | — | — | — | — | — | — | 148.26 | — | — | — | — | — |
| 6945 | MD50-14-87700 | 50-603062 | 450–450 | 10/28/2014 | — | — | — | — | — | — | 84.02 | — | — | — | — | — |
| 6945 | MD50-14-87710 | 50-603383 | 26–26 | 10/27/2014 | — | — | 75.45 | — | 63.43 | — | 163.09 | — | — | - | - | 55.42 |
| 6945 | MD50-14-87711 | 50-603383 | 139–139 | 10/27/2014 | — | — | 169.76 | — | 175.67 | — | 261.93 | — | — | 63.40 | - | 254.01 |
| 6945 | MD50-14-87712 | 50-603383 | 244–244 | 10/27/2014 | — | — | 333.23 | — | 146.39 | — | 271.82 | — | — | 59.44 | 51.51 | 318.67 |
| 6945 | MD50-14-87713 | 50-603383 | 359–359 | 10/27/2014 | — | — | 194.91 | — | — | — | 177.92 | — | — | — | — | — |
| 6945 | MD50-14-87714 | 50-603383 | 450–450 | 10/27/2014 | — | — | 176.04 | — | — | — | 163.09 | — | — | — | — | — |
| 6945 | MD50-14-87681 | 50-24813 | 25–25 | 10/24/2014 | — | — | 880.22 | — | 829.53 | — | 177.92 | — | — | — | 43.59 | — |
| 6945 | MD50-14-87682 | 50-24813 | 150–150 | 10/24/2014 | — | — | 1320.33 | — | 2293.41 | — | 474.44 | — | — | — | 435.86 | — |
| 6945 | MD50-14-87683 | 50-24813 | 241–241 | 10/24/2014 | — | — | 1634.70 | — | 1951.83 | — | 1136.69 | — | — | — | 554.73 | — |
| 6945 | MD50-14-87684 | 50-24813 | 358–358 | 10/24/2014 | — | — | 754.48 | — | 536.75 | — | 939.00 | — | — | — | 194.16 | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorobenzene[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **47,200** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** |
| 6945 | MD50-14-87685 | 50-24813 | 450–450 | 10/24/2014 | — | — | 339.51 | — | 92.71 | — | 543.63 | — | — | — | - | — |
| 6945 | MD50-14-87686 | 50-24813 | 600–600 | 10/24/2014 | — | — | 106.88 | — | - | — | 247.11 | — | — | — | - | — |
| 6945 | MD50-14-87734 | 50-603471 | 90–90 | 10/23/2014 | — | — | 691.60 | — | 1024.71 | — | 118.61 | — | 44.49 | — | 75.28 | — |
| 6945 | MD50-14-87735 | 50-603471 | 209–209 | 10/23/2014 | — | — | 691.60 | — | 1707.85 | — | 69.19 | — | 101.12 | — | 368.50 | 78.51 |
| 6945 | MD50-14-87736 | 50-603471 | 288–288 | 10/23/2014 | — | — | 1068.84 | — | 1659.06 | — | 889.58 | — | — | — | 475.48 | — |
| 6945 | MD50-14-87737 | 50-603471 | 360–360 | 10/23/2014 | — | — | 754.48 | — | 683.14 | — | 790.74 | — | — | — | 210.01 | — |
| 6945 | MD50-14-87738 | 50-603471 | 450–450 | 10/23/2014 | — | — | 408.68 | — | 351.33 | — | 459.62 | — | — | — | 95.10 | — |
| 6945 | MD50-14-87739 | 50-613183 | 550–550 | 10/23/2014 | — | — | 150.90 | — | — | — | 355.83 | — | — | — | — | — |
| 6945 | MD50-14-87740 | 50-613183 | 642.5–642.5 | 10/23/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 6945 | MD50-14-90318 | 50-603471 | Unknown[c] | 10/23/2014 | — | — | 1257.46 | — | 1659.06 | — | 242.16 | — | 109.21 | - | 198.12 | 83.13 |
| 6945 | MD50-14-87727 | 50-603470 | 83–83 | 10/22/2014 | — | — | 270.35 | — | 878.33 | — | 227.34 | — | — | — | 130.76 | — |
| 6945 | MD50-14-87728 | 50-603470 | 203–203 | 10/22/2014 | — | — | 477.84 | — | 1317.49 | — | 840.16 | — | — | — | 372.46 | — |
| 6945 | MD50-14-87729 | 50-603470 | 278–278 | 10/22/2014 | — | — | 540.71 | — | 1024.71 | — | 988.43 | — | — | — | 320.95 | — |
| 6945 | MD50-14-87730 | 50-603470 | 351–351 | 10/22/2014 | — | — | 465.26 | — | 370.85 | — | 939.00 | — | — | — | 150.57 | — |
| 6945 | MD50-14-87731 | 50-603470 | 450–450 | 10/22/2014 | — | — | 257.78 | — | 82.95 | — | 593.06 | — | — | — | — | — |
| 6945 | MD50-14-87733 | 50-603470 | 650–650 | 10/22/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 6945 | MD50-14-87741 | 50-603472 | 27–27 | 10/21/2014 | — | — | — | — | 204.94 | — | — | — | — | — | — | — |
| 6945 | MD50-14-87742 | 50-603472 | 146–146 | 10/21/2014 | — | — | 176.04 | — | 487.96 | — | 113.67 | — | — | — | 95.10 | 78.51 |
| 6945 | MD50-14-87743 | 50-603472 | 292–292 | 10/21/2014 | — | — | 226.34 | — | 292.78 | — | 177.92 | — | — | — | 83.21 | — |
| 6945 | MD50-14-87744 | 50-603472 | 364–364 | 10/21/2014 | — | — | 377.24 | — | 170.79 | — | 355.83 | — | — | — | 47.55 | — |
| 6945 | MD50-14-87745 | 50-603472 | 450–450 | 10/21/2014 | — | — | 132.03 | — | — | — | 138.38 | — | — | — | — | — |
| 6945 | MD50-14-87746 | 50-613182 | 550–550 | 10/21/2014 | — | — | 75.45 | — | — | — | 103.79 | — | — | — | — | — |
| 6945 | MD50-14-87747 | 50-613182 | 632.5–632.5 | 10/21/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 6945 | MD50-14-87677 | 50-24784 | 155–155 | 10/20/2014 | — | — | 169.76 | — | 297.66 | — | 98.84 | — | — | — | — | 60.04 |
| 6945 | MD50-14-87678 | 50-24784 | 244–244 | 10/20/2014 | — | — | 232.63 | — | 97.59 | — | 108.73 | — | — | — | — | — |
| 6945 | MD50-14-87679 | 50-24784 | 362–362 | 10/20/2014 | — | — | 339.51 | — | — | — | 172.97 | — | — | — | — | — |
| 6945 | MD50-14-87680 | 50-24784 | 450–450 | 10/20/2014 | — | — | 232.63 | — | — | — | 148.26 | — | — | — | — | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorobenzene[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **47,200** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** |
| 4639 | MD50-14-75362 | 50-603061 | 25–25 | 05/12/2014 | — | — | — | — | — | — | 494.21 (J+)[b] | — | — | 221.89 | — | — |
| 4639 | MD50-14-75363 | 50-603061 | 128–128 | 05/12/2014 | — | — | — | — | 53.68 | — | 405.25 (J+) | — | — | 1347.20 | — | — |
| 4639 | MD50-14-75364 | 50-603061 | 228–228 | 05/12/2014 | — | — | 81.73 | — | — | — | 301.47 (J+) | — | — | 1109.46 | — | — |
| 4639 | MD50-14-75365 | 50-603061 | 347–347 | 05/12/2014 | — | — | 100.60 | — | — | — | 237.22 (J+) | — | — | 249.63 | — | — |
| 4639 | MD50-14-75366 | 50-603061 | 450–450 | 05/12/2014 | — | — | — | — | — | — | 123.55 (J+) | — | — | 55.47 | — | — |
| 4639 | MD50-14-75380 | 50-603383 | 26–26 | 05/09/2014 | — | — | — | — | — | — | 64.25 | — | — | — | — | — |
| 4639 | MD50-14-75381 | 50-603383 | 139–139 | 05/09/2014 | — | — | 220.06 | — | 185.42 | — | 296.53 | — | — | 67.36 | 43.59 | 230.92 |
| 4639 | MD50-14-75382 | 50-603383 | 244–244 | 05/09/2014 | — | — | 370.95 | — | 156.15 | — | 326.18 | — | — | 71.32 | 59.44 | 295.58 |
| 4639 | MD50-14-75383 | 50-603383 | 359–359 | 05/09/2014 | — | — | 220.06 | — | — | — | 222.40 | — | — | — | — | — |
| 4639 | MD50-14-75384 | 50-603383 | 450–450 | 05/09/2014 | — | — | 201.19 | — | — | — | 192.74 | — | — | — | — | — |
| 4639 | MD50-14-75371 | 50-603063 | 450–450 | 05/08/2014 | — | — | 138.32 | — | 156.15 | — | 232.28 | — | — | — | — | — |
| 4639 | MD50-14-75372 | 50-603063 | 347–347 | 05/08/2014 | — | — | 232.63 | — | 219.58 | — | 296.53 | — | — | 67.36 | 39.62 | - |
| 4639 | MD50-14-75373 | 50-603063 | 228–228 | 05/08/2014 | — | 56.02 | 389.81 | — | 536.75 | — | 543.63 | 48.54 | — | 324.91 | 154.53 | — |
| 4639 | MD50-14-75374 | 50-603063 | 128–128 | 05/08/2014 | — | — | 169.76 | — | 302.53 | — | 415.14 | 68.76 | — | 233.78 | - | — |
| 4639 | MD50-14-75375 | 50-603063 | 25–25 | 05/08/2014 | — | — | — | — | — | — | 172.97 | — | — | — | — | — |
| 4639 | MD50-14-75376 | 50-603064 | 113–113 | 05/07/2014 | — | — | 169.76 | — | 829.53 | — | 464.56 | — | — | 554.73 | 249.63 | — |
| 4639 | MD50-14-75377 | 50-603064 | 214–214 | 05/07/2014 | — | — | 295.50 | — | 585.55 | — | 691.90 | — | — | 713.23 | 253.59 | — |
| 4639 | MD50-14-75378 | 50-603064 | 332–332 | 05/07/2014 | — | — | 213.77 | — | 78.07 | — | 494.21 | — | — | 162.46 | — | — |
| 4639 | MD50-14-75379 | 50-603064 | 500–500 | 05/07/2014 | — | — | — | — | — | — | 207.57 | — | — | — | — | — |
| 4639 | MD50-14-75367 | 50-603062 | 122–122 | 05/06/2014 | — | — | — | — | 73.19 | — | 202.63 | — | — | — | — | — |
| 4639 | MD50-14-75368 | 50-603062 | 217–217 | 05/06/2014 | — | — | — | — | 48.80 | — | 237.22 | — | — | — | — | — |
| 4639 | MD50-14-75369 | 50-603062 | 450–450 | 05/06/2014 | — | — | — | — | — | — | 98.84 | — | — | — | — | — |
| 4639 | MD50-14-75370 | 50-603062 | 337–337 | 05/06/2014 | — | — | — | — | — | — | 172.97 | — | — | — | — | — |
| 4639 | MD50-14-75357 | 50-24822 | 142–142 | 05/05/2014 | — | — | 238.92 | — | 536.75 | — | 494.21 | — | — | — | 103.02 | — |
| 4639 | MD50-14-75358 | 50-24822 | 235–235 | 05/05/2014 | — | — | 289.22 | — | 429.40 | 56.48 | 642.48 | — | — | — | 106.98 | — |
| 4639 | MD50-14-75359 | 50-24822 | 351–351 | 05/05/2014 | — | — | 201.19 | — | 131.75 | — | 494.21 | — | — | — | — | — |
| 4639 | MD50-14-75360 | 50-24822 | 450–450 | 05/05/2014 | — | — | 144.61 | — | — | — | 365.72 | — | — | — | — | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorobenzene[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **47,200** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** |
| 4639 | MD50-14-75361 | 50-24822 | 25–25 | 05/05/2014 | — | — | 62.87 | — | 224.46 | — | 123.55 | — | — | — | — | — |
| 4639 | MD50-14-75418 | 50-603503 | 133–133 | 05/02/2014 | — | — | — | — | 97.59 | — | — | — | — | — | — | — |
| 4639 | MD50-14-75419 | 50-603503 | 237–237 | 05/02/2014 | — | — | 88.02 | — | 107.35 | — | 64.25 | — | — | — | — | — |
| 4639 | MD50-14-75420 | 50-603503 | 347–347 | 05/02/2014 | — | — | 94.31 | — | 53.68 | — | 69.19 | — | — | — | — | — |
| 4639 | MD50-14-75421 | 50-603503 | 450–450 | 05/02/2014 | — | — | 94.31 | — | - | — | 74.13 | — | — | — | — | — |
| 4639 | MD50-14-75385 | 50-603467 | 143–143 | 05/01/2014 | — | — | 383.53 | — | 536.75 | — | 192.74 | — | — | — | 99.06 | — |
| 4639 | MD50-14-75386 | 50-603467 | 244–244 | 05/01/2014 | — | — | 490.41 | — | 536.75 | — | 276.76 | — | — | — | 146.61 | — |
| 4639 | MD50-14-75387 | 50-603467 | 360–360 | 05/01/2014 | — | — | 433.82 | — | 361.09 | — | 237.22 | — | — | — | 99.06 | — |
| 4639 | MD50-14-75388 | 50-603467 | 500–500 | 05/01/2014 | — | — | 226.34 | — | — | — | 202.63 | — | — | — | - | — |
| 4639 | MD50-14-75389 | 50-603467 | 600–600 | 05/01/2014 | — | — | 113.17 | — | — | — | 133.44 | — | — | — | — | — |
| 4639 | MD50-14-75422 | 50-613185 | 600–600 | 04/30/2014 | — | — | 21.38 | — | — | — | 48.93 | — | — | — | — | — |
| 4639 | MD50-14-75423 | 50-613185 | 450–450 | 04/30/2014 | — | — | — | — | — | — | 98.84 | — | — | — | — | — |
| 4639 | MD50-14-75424 | 50-613185 | 350–350 | 04/30/2014 | — | — | 106.88 | — | — | — | 138.38 | — | — | — | — | — |
| 4639 | MD50-14-75425 | 50-613185 | 235–235 | 04/30/2014 | — | — | 138.32 | — | 87.83 | — | 158.15 | — | — | — | — | — |
| 4639 | MD50-14-75426 | 50-613185 | 145–145 | 04/30/2014 | — | — | 81.73 | — | 87.83 | — | 84.02 | — | — | — | — | — |
| 4639 | MD50-14-75390 | 50-603468 | 354–354 | 04/29/2014 | — | — | 591.01 | — | 370.85 | — | 593.06 | — | — | — | 118.87 | — |
| 4639 | MD50-14-75391 | 50-603468 | 233–233 | 04/29/2014 | — | — | 597.29 | — | 585.55 | — | 494.21 | — | — | — | 166.42 | — |
| 4639 | MD50-14-75392 | 50-603468 | 142–142 | 04/29/2014 | — | — | 251.49 | — | 361.09 | — | 93.90 | — | — | — | 83.21 | — |
| 4639 | MD50-14-75393 | 50-603468 | 403–403 | 04/29/2014 | — | — | 490.41 | — | 214.70 | — | 593.06 | — | — | — | 79.25 | — |
| 4639 | MD50-14-75394 | 50-613184 | 500–500 | 04/29/2014 | — | — | 157.18 | — | — | — | 237.22 | — | — | — | — | — |
| 4639 | MD50-14-75395 | 50-613184 | 600–600 | 04/29/2014 | — | — | — | — | — | — | 128.50 | — | — | — | — | — |
| 4639 | MD50-14-75396 | 50-613184 | 664.5–664.5 | 04/29/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 4639 | MD50-14-75351 | 50-24813 | 600–600 | 04/28/2014 | — | — | 138.32 | — | — | — | 301.47 | — | — | — | — | — |
| 4639 | MD50-14-75352 | 50-24813 | 450–450 | 04/28/2014 | — | — | 440.11 | — | 136.63 | — | 691.90 | — | — | — | 43.59 | — |
| 4639 | MD50-14-75353 | 50-24813 | 358–358 | 04/28/2014 | — | — | 817.35 | — | 536.75 | — | 1037.85 | — | — | — | 182.27 | — |
| 4639 | MD50-14-75354 | 50-24813 | 241–241 | 04/28/2014 | — | — | 1760.44 | — | 2098.22 | — | 1383.79 | — | — | — | 554.73 | — |
| 4639 | MD50-14-75355 | 50-24813 | 150–150 | 04/28/2014 | — | — | 1508.95 | — | 2634.98 | — | 642.48 | — | 97.08 | — | 475.48 | 64.66 |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorobenzene[1,2-] | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **47,200** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** |
| 4639 | MD50-14-75356 | 50-24813 | 25–25 | 04/28/2014 | — | — | 1194.59 | — | 975.92 | — | 271.82 | — | — | — | 47.55 | — |
| 4639 | MD50-14-75397 | 50-603470 | 650–650 | 04/25/2014 | 23.74 | — | 6.92 | — | — | — | 36.08 | — | — | — | — | — |
| 4639 | MD50-14-75398 | 50-603470 | 600–600 | 04/25/2014 | — | — | — | — | — | — | 227.34 | — | — | — | — | — |
| 4639 | MD50-14-75399 | 50-603470 | 450–450 | 04/25/2014 | — | — | 257.78 | — | 78.07 | — | 593.06 | — | - | — | — | — |
| 4639 | MD50-14-75400 | 50-603470 | 351–351 | 04/25/2014 | — | — | 421.25 | — | 346.45 | — | 889.58 | — | - | — | 114.91 | — |
| 4639 | MD50-14-75401 | 50-603470 | 278–278 | 04/25/2014 | — | — | 528.13 | — | 927.12 | — | 988.43 | — | - | 38.43 | 257.55 | — |
| 4639 | MD50-14-75402 | 50-603470 | 203–203 | 04/25/2014 | — | — | 440.11 | — | 1268.69 | — | 889.58 | — | - | - | 320.95 | — |
| 4639 | MD50-14-75403 | 50-603470 | 83–83 | 04/25/2014 | — | — | 282.93 | — | 975.92 | — | 242.16 | — | - | - | 118.87 | — |
| 4639 | MD50-14-75404 | 50-603471 | 450–450 | 04/24/2014 | — | — | 377.24 | — | 331.81 | — | 365.72 | — | - | - | 91.13 | — |
| 4639 | MD50-14-75405 | 50-603471 | 360–360 | 04/24/2014 | — | — | 754.48 | — | 683.14 | — | 790.74 | — | - | - | 202.08 | — |
| 4639 | MD50-14-75406 | 50-603471 | 288–288 | 04/24/2014 | — | — | 1068.84 | 151.98 | 1463.88 | — | 840.16 | — | 44.49 | - | 396.24 | 55.42 |
| 4639 | MD50-14-75407 | 50-603471 | 209–209 | 04/24/2014 | — | — | 597.29 | — | 1219.90 | — | 494.21 | — | 72.81 | - | 285.29 | 60.04 |
| 4639 | MD50-14-75408 | 50-603471 | 90.0–90.0 | 04/24/2014 | — | — | 754.48 | — | 1073.51 | — | 128.50 | — | 56.63 | - | 103.02 | — |
| 4639 | MD50-14-75409 | 50-613183 | 550–550 | 04/24/2014 | — | — | 163.47 | — | — | — | 341.01 | — | — | — | — | — |
| 4639 | MD50-14-75410 | 50-613183 | 642.5–642.5 | 04/24/2014 | — | — | — | — | — | — | — | — | — | — | — | — |
| 4639 | MD50-14-75754 | 50-603471 | Unknown[c] | 04/24/2014 | — | — | 1320.33 | — | 1610.26 | — | 232.28 | — | 125.39 | — | 194.16 | 73.89 |
| 4639 | MD50-14-75411 | 50-603472 | 146–146 | 04/23/2014 | — | — | 220.06 | — | 536.75 | — | 148.26 | — | 44.49 | — | 99.06 | 83.13 |
| 4639 | MD50-14-75412 | 50-603472 | 292–292 | 04/23/2014 | — | — | 477.84 | 173.19 | 585.55 | — | 375.60 | — | — | — | 154.53 | 50.80 |
| 4639 | MD50-14-75413 | 50-603472 | 364–364 | 04/23/2014 | — | — | 389.81 | — | 170.79 | — | 370.66 | — | — | — | 43.59 | — |
| 4639 | MD50-14-75414 | 50-603472 | 450–450 | 04/23/2014 | — | — | 276.64 | — | 58.56 (J) | — | 291.59 | — | — | — | — | — |
| 4639 | MD50-14-75415 | 50-603472 | 27–27 | 04/23/2014 | — | — | — | — | 243.98 | — | — | — | — | — | — | — |
| 4639 | MD50-14-75416 | 50-613182 | 550–550 | 04/23/2014 | — | — | 88.02 | — | — | — | 138.38 | — | — | — | — | — |
| 4639 | MD50-14-75417 | 50-613182 | 632.5–632.5 | 04/23/2014 | — | — | — | — | — | — | 6.42 | — | — | — | — | — |
| 4639 | MD50-14-75347 | 50-24784 | 450–450 | 04/22/2014 | — | — | 232.63 | — | — | — | 158.15 | — | — | — | — | — |
| 4639 | MD50-14-75348 | 50-24784 | 362–362 | 04/22/2014 | — | — | 352.09 | — | — | — | 168.03 | — | — | — | — | — |
| 4639 | MD50-14-75349 | 50-24784 | 244–244 | 04/22/2014 | — | — | 220.06 | — | 97.59 | — | 108.73 | — | — | — | — | — |
| 4639 | MD50-14-75350 | 50-24784 | 155–155 | 04/22/2014 | — | — | 176.04 | — | 287.90 | — | 108.73 | — | — | — | — | 60.04 |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Ethanol | Hexanone[2-] | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **na[d]** | **145** | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 6945 | MD50-14-87706 | 50-603064 | 113–113 | 11/10/2014 | — | — | 86.79 | 549.03 | — | — | 9956.55 | 1962.95 | — | 22,556.0 | — |
| 6945 | MD50-14-87707 | 50-603064 | 214–214 | 11/10/2014 | — | — | 347.15 | 555.81 | — | — | 13,020.10 | 2017.48 | — | 33,834.1 | 56.15 |
| 6945 | MD50-14-87708 | 50-603064 | 332–332 | 11/10/2014 | — | — | 55.54 | 216.90 | — | — | 3676.26 | 169.03 | — | 13,426.2 | — |
| 6945 | MD50-14-87709 | 50-603064 | 500–500 | 11/10/2014 | — | — | — | — | — | — | 199.13 | — | — | 1342.62 | — |
| 6945 | MD50-14-87752 | 50-613185 | 145–145 | 11/07/2014 | — | — | 33.33 | 81.34 | — | — | — | — | — | 3759.34 | — |
| 6945 | MD50-14-87753 | 50-613185 | 235–235 | 11/07/2014 | — | — | 62.49 | 108.45 | — | — | — | — | — | 6981.63 | — |
| 6945 | MD50-14-87754 | 50-613185 | 350–350 | 11/07/2014 | — | — | — | 65.07 | — | — | — | — | — | 3651.93 | — |
| 6945 | MD50-14-87755 | 50-613185 | 450–450 | 11/07/2014 | — | — | — | — | — | — | — | — | — | 1235.21 | — |
| 6945 | MD50-14-87756 | 50-613185 | 600–600 | 11/07/2014 | — | — | — | — | — | — | — | — | — | 155.74 | — |
| 6945 | MD50-14-87748 | 50-603503 | 133–133 | 11/06/2014 | — | — | 38.19 | 264.35 | — | — | — | — | — | 1450.03 | — |
| 6945 | MD50-14-87749 | 50-603503 | 237–237 | 11/06/2014 | — | — | 104.14 | 474.47 | — | — | — | — | — | 4511.21 | — |
| 6945 | MD50-14-87750 | 50-603503 | 347–347 | 11/06/2014 | — | — | — | 149.12 | — | — | — | — | — | 1503.74 | — |
| 6945 | MD50-14-87751 | 50-603503 | 450–450 | 11/06/2014 | — | — | — | 237.24 | — | — | — | — | — | 2577.83 | — |
| 6945 | MD50-14-87720 | 50-603468 | 142–142 | 11/05/2014 | — | — | 48.60 | 216.90 | — | — | — | — | — | 13,426.2 | — |
| 6945 | MD50-14-87721 | 50-603468 | 233–233 | 11/05/2014 | — | — | 451.29 | 332.13 | — | — | — | — | — | 25,241.3 | — |
| 6945 | MD50-14-87722 | 50-603468 | 354–354 | 11/05/2014 | — | — | 288.13 | 338.91 | — | — | — | — | — | 25,778.3 | — |
| 6945 | MD50-14-87723 | 50-603468 | 403–403 | 11/05/2014 | — | — | 190.93 | 271.13 | — | — | — | — | — | 22,556.0 | — |
| 6945 | MD50-14-87724 | 50-613184 | 500–500 | 11/05/2014 | — | — | — | — | — | — | — | — | — | 3651.93 | — |
| 6945 | MD50-14-87725 | 50-613184 | 600–600 | 11/05/2014 | — | — | — | — | — | — | — | — | — | 698.16 | — |
| 6945 | MD50-14-87726 | 50-613184 | 664.5–664.5 | 11/05/2014 | — | — | — | — | — | — | — | — | — | 112.78 | — |
| 6945 | MD50-14-87715 | 50-603467 | 143–143 | 11/04/2014 | — | — | 52.07 | 393.14 | — | — | — | — | — | 14,500.3 | — |
| 6945 | MD50-14-87716 | 50-603467 | 244–244 | 11/04/2014 | — | — | 253.42 | 745.60 | — | — | — | — | — | 24,167.2 | — |
| 6945 | MD50-14-87717 | 50-603467 | 360–360 | 11/04/2014 | — | — | — | 677.82 | — | — | — | — | — | 22,019.0 | — |
| 6945 | MD50-14-87718 | 50-603467 | 500–500 | 11/04/2014 | — | — | — | 237.24 | — | — | — | — | — | 8592.78 | — |
| 6945 | MD50-14-87719 | 50-603467 | 600–600 | 11/04/2014 | — | — | — | 155.90 | 58.95 | — | — | — | — | 4135.27 | — |
| 6945 | MD50-14-87687 | 50-24822 | 25–25 | 11/03/2014 | — | — | — | 149.12 | — | — | 71.23 | — | — | 6444.58 | — |
| 6945 | MD50-14-87688 | 50-24822 | 142–142 | 11/03/2014 | — | — | 170.10 | 189.79 | — | — | 153.18 | — | — | 22,556.0 | — |
| 6945 | MD50-14-87689 | 50-24822 | 235–235 | 11/03/2014 | — | — | 263.83 | 216.90 | — | — | 183.81 | — | — | 30,611.8 | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Ethanol | Hexanone[2-] | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **na[d]** | **145** | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 6945 | MD50-14-87690 | 50-24822 | 351–351 | 11/03/2014 | — | — | 107.62 | 122.01 | — | — | — | — | — | 19,870.8 | — |
| 6945 | MD50-14-87691 | 50-24822 | 450–450 | 11/03/2014 | — | — | — | — | — | — | — | — | — | 9129.83 | — |
| 6945 | MD50-14-87692 | 50-603061 | 25–25 | 10/30/2014 | — | — | — | 81.34 | — | 37.66 | 8424.77 | 926.95 | — | 370.56 | — |
| 6945 | MD50-14-87693 | 50-603061 | 128–128 | 10/30/2014 | — | — | — | 244.02 | — | — | 24,508.40 | 3435.17 | — | 1987.08 | — |
| 6945 | MD50-14-87694 | 50-603061 | 228–228 | 10/30/2014 | — | — | — | 108.45 | — | — | 9956.55 | 1690.32 | — | 1879.67 | — |
| 6945 | MD50-14-87695 | 50-603061 | 347–347 | 10/30/2014 | — | — | — | 88.12 | — | — | 6586.64 | 447.12 | — | 1181.51 | — |
| 6945 | MD50-14-87696 | 50-603061 | 450–450 | 10/30/2014 | — | — | — | — | — | — | 1378.60 | — | — | 408.16 | — |
| 6945 | MD50-14-87701 | 50-603063 | 25–25 | 10/29/2014 | 320.12 (J+) | — | — | 325.35 | — | — | 2374.25 | 299.90 | — | 1288.92 | — |
| 6945 | MD50-14-87702 | 50-603063 | 128–128 | 10/29/2014 | — | — | — | 881.17 | — | — | 4901.68 | 654.32 | — | 7518.68 | — |
| 6945 | MD50-14-87703 | 50-603063 | 228–228 | 10/29/2014 | — | — | — | 1558.99 | — | — | 5820.75 | 708.84 | — | 22,556.0 | 61.76 |
| 6945 | MD50-14-87704 | 50-603063 | 347–347 | 10/29/2014 | — | — | 38.19 | 671.04 | — | — | 1378.60 | 81.79 | — | 13,426.2 | — |
| 6945 | MD50-14-87705 | 50-603063 | 450–450 | 10/29/2014 | — | — | — | 338.91 | — | — | 214.45 | — | — | 8055.73 | — |
| 6945 | MD50-14-87697 | 50-603062 | 122–122 | 10/28/2014 | — | — | — | — | — | — | 413.58 | — | — | 5263.08 | — |
| 6945 | MD50-14-87698 | 50-603062 | 217–217 | 10/28/2014 | — | — | — | — | — | — | 482.51 | — | — | 6444.58 | — |
| 6945 | MD50-14-87699 | 50-603062 | 337–337 | 10/28/2014 | — | — | — | — | — | — | 130.20 | — | — | 1825.97 | — |
| 6945 | MD50-14-87700 | 50-603062 | 450–450 | 10/28/2014 | — | — | — | — | — | — | — | — | — | 590.75 | — |
| 6945 | MD50-14-87710 | 50-603383 | 26–26 | 10/27/2014 | — | — | — | 528.70 | — | — | 681.64 | 109.05 | — | 1611.15 | — |
| 6945 | MD50-14-87711 | 50-603383 | 139–139 | 10/27/2014 | — | — | — | 1084.51 | — | — | 1148.83 | 190.84 | — | 4188.98 | — |
| 6945 | MD50-14-87712 | 50-603383 | 244–244 | 10/27/2014 | — | — | 65.96 | 1355.64 | — | — | 842.48 | 174.49 | — | 5907.54 | — |
| 6945 | MD50-14-87713 | 50-603383 | 359–359 | 10/27/2014 | — | — | — | 338.91 | — | — | 252.74 | — | — | 1879.67 | — |
| 6945 | MD50-14-87714 | 50-603383 | 450–450 | 10/27/2014 | — | — | — | 230.46 | — | — | 130.20 | — | — | 1074.10 | — |
| 6945 | MD50-14-87681 | 50-24813 | 25–25 | 10/24/2014 | — | — | — | 332.13 | — | — | — | — | — | 9129.83 | — |
| 6945 | MD50-14-87682 | 50-24813 | 150–150 | 10/24/2014 | — | — | 343.68 | 521.92 | — | — | — | — | 174.49 | 37,056.4 | — |
| 6945 | MD50-14-87683 | 50-24813 | 241–241 | 10/24/2014 | — | — | 902.58 | 813.38 | — | — | — | — | — | 75,186.8 | — |
| 6945 | MD50-14-87684 | 50-24813 | 358–358 | 10/24/2014 | — | — | —- | 481.25 | — | — | — | — | — | 48,334.4 | — |
| 6945 | MD50-14-87685 | 50-24813 | 450–450 | 10/24/2014 | — | — | 107.62 | 176.23 | — | — | — | — | — | 19,870.8 | — |
| 6945 | MD50-14-87686 | 50-24813 | 600–600 | 10/24/2014 | — | — | — | — | — | — | — | — | — | 2631.54 | — |
| 6945 | MD50-14-87734 | 50-603471 | 90–90 | 10/23/2014 | — | — | — | 474.47 | — | — | 122.54 | — | — | 5907.54 | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Ethanol | Hexanone[2-] | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **na[d]** | **145** | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 6945 | MD50-14-87735 | 50-603471 | 209–209 | 10/23/2014 | — | — | 763.72 | 948.95 | — | — | — | — | — | 34,371.1 | — |
| 6945 | MD50-14-87736 | 50-603471 | 288–288 | 10/23/2014 | — | — | 1666.30 | 1220.08 | — | — | 528.46 | — | — | 59,075.4 | — |
| 6945 | MD50-14-87737 | 50-603471 | 360–360 | 10/23/2014 | — | — | 763.72 | 948.95 | — | — | 321.67 | — | — | 42,963.9 | — |
| 6945 | MD50-14-87738 | 50-603471 | 450–450 | 10/23/2014 | — | — | 232.59 | 528.70 | — | — | 137.86 | — | — | 24,167.2 | — |
| 6945 | MD50-14-87739 | 50-613183 | 550–550 | 10/23/2014 | — | — | — | — | — | — | — | — | — | 3329.70 | — |
| 6945 | MD50-14-87740 | 50-613183 | 642.5–642.5 | 10/23/2014 | — | — | — | — | — | — | — | — | — | 75.19 | — |
| 6945 | MD50-14-90318 | 50-603471 | Unknown[d] | 10/23/2014 | — | — | 194.40 | 813.38 | — | — | 260.40 | — | — | 13,963.3 | — |
| 6945 | MD50-14-87727 | 50-603470 | 83–83 | 10/22/2014 | — | — | 41.66 | 657.49 | — | — | 245.08 | 59.98 | — | 12,352.1 | — |
| 6945 | MD50-14-87728 | 50-603470 | 203–203 | 10/22/2014 | — | — | 694.29 | 562.59 | — | — | 919.07 | — | — | 43,500.9 | — |
| 6945 | MD50-14-87729 | 50-603470 | 278–278 | 10/22/2014 | — | — | 833.15 | 508.37 | — | — | 842.48 | — | — | 53,704.9 | — |
| 6945 | MD50-14-87730 | 50-603470 | 351–351 | 10/22/2014 | — | — | 451.29 | 366.02 | — | — | 597.39 | — | — | 39,741.6 | — |
| 6945 | MD50-14-87731 | 50-603470 | 450–450 | 10/22/2014 | — | — | 93.73 | 128.79 | — | — | 206.79 | — | — | 17,722.6 | — |
| 6945 | MD50-14-87733 | 50-603470 | 650–650 | 10/22/2014 | — | — | — | — | — | — | — | — | — | 91.30 | — |
| 6945 | MD50-14-87741 | 50-603472 | 27–27 | 10/21/2014 | — | — | — | 372.80 | — | — | — | — | — | 2094.49 | — |
| 6945 | MD50-14-87742 | 50-603472 | 146–146 | 10/21/2014 | — | — | 347.15 | 637.15 | — | — | 91.91 | — | — | 9666.88 | — |
| 6945 | MD50-14-87743 | 50-603472 | 292–292 | 10/21/2014 | — | — | 451.29 | 813.38 | — | — | — | — | — | 15,037.4 | — |
| 6945 | MD50-14-87744 | 50-603472 | 364–364 | 10/21/2014 | — | — | 270.77 | 881.17 | — | — | — | — | — | 18,259.7 | — |
| 6945 | MD50-14-87745 | 50-603472 | 450–450 | 10/21/2014 | — | — | — | 244.02 | — | — | — | — | — | 5048.26 | — |
| 6945 | MD50-14-87746 | 50-613182 | 550–550 | 10/21/2014 | — | — | — | 81.34 | — | — | — | — | — | 1342.62 | — |
| 6945 | MD50-14-87747 | 50-613182 | 632.5–632.5 | 10/21/2014 | — | — | — | — | — | — | — | — | — | — | — |
| 6945 | MD50-14-87677 | 50-24784 | 155–155 | 10/20/2014 | — | — | — | 2033.46 | — | — | 122.54 | — | — | 3061.18 | — |
| 6945 | MD50-14-87678 | 50-24784 | 244–244 | 10/20/2014 | — | — | — | 1694.55 | — | — | 76.59 | — | — | 3114.88 | — |
| 6945 | MD50-14-87679 | 50-24784 | 362–362 | 10/20/2014 | — | — | — | 1220.08 | — | — | — | — | — | 2255.60 | — |
| 6945 | MD50-14-87680 | 50-24784 | 450–450 | 10/20/2014 | — | — | — | 427.03 | — | — | — | — | — | 859.28 | — |
| 4639 | MD50-14-75362 | 50-603061 | 25–25 | 05/12/2014 | — | — | — | 94.89 | — | — | 9956.55 | 1145.06 | — | 440.38 | — |
| 4639 | MD50-14-75363 | 50-603061 | 128–128 | 05/12/2014 | — | — | — | 250.79 | — | — | 26,040.20 | 3816.85 | — | 2363.01 | — |
| 4639 | MD50-14-75364 | 50-603061 | 228–228 | 05/12/2014 | — | — | 41.66 | 196.57 | — | — | 18,381.30 | 2944.43 | — | 3168.59 | — |
| 4639 | MD50-14-75365 | 50-603061 | 347–347 | 05/12/2014 | — | — | — | 94.89 | — | — | 7046.17 | 447.12 | — | 1342.62 | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Ethanol | Hexanone[2-] | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **na[d]** | **145** | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 4639 | MD50-14-75366 | 50-603061 | 450–450 | 05/12/2014 | — | — | — | 81.34 | — | — | 1225.42 | — | — | 445.75 | — |
| 4639 | MD50-14-75380 | 50-603383 | 26–26 | 05/09/2014 | — | — | — | 250.79 | — | — | 160.84 | — | — | 590.75 | — |
| 4639 | MD50-14-75381 | 50-603383 | 139–139 | 05/09/2014 | — | — | 41.66 | 1355.64 | — | — | 1302.01 | 218.11 | — | 5101.96 | — |
| 4639 | MD50-14-75382 | 50-603383 | 244–244 | 05/09/2014 | — | — | 65.96 | 1355.64 | — | — | 842.48 | 163.58 | — | 5907.54 | — |
| 4639 | MD50-14-75383 | 50-603383 | 359–359 | 05/09/2014 | — | — | — | 406.69 | — | — | 283.38 | — | — | 1987.08 | — |
| 4639 | MD50-14-75384 | 50-603383 | 450–450 | 05/09/2014 | — | — | — | 237.24 | — | — | 107.22 | — | — | 1396.33 | — |
| 4639 | MD50-14-75371 | 50-603063 | 450–450 | 05/08/2014 | — | — | — | 372.80 | — | — | 176.15 | — | — | 8055.73 | — |
| 4639 | MD50-14-75372 | 50-603063 | 347–347 | 05/08/2014 | — | — | 38.19 | 623.60 | — | — | 1225.42 | 59.98 | — | 12,352.0 | — |
| 4639 | MD50-14-75373 | 50-603063 | 228–228 | 05/08/2014 | — | — | — | 1694.55 | — | — | 5744.16 | 654.32 | — | 23,630.1 | 61.76 |
| 4639 | MD50-14-75374 | 50-603063 | 128–128 | 05/08/2014 | — | — | — | 948.95 | — | — | 4901.68 | 708.84 | — | 9129.83 | — |
| 4639 | MD50-14-75375 | 50-603063 | 25–25 | 05/08/2014 | — | — | — | 311.80 | — | — | 2374.25 | 294.44 | — | 1342.62 | — |
| 4639 | MD50-14-75376 | 50-603064 | 113–113 | 05/07/2014 | — | — | 100.67 | 610.04 | — | — | 11,488.30 | 2126.53 | — | 25,241.3 | — |
| 4639 | MD50-14-75377 | 50-603064 | 214–214 | 05/07/2014 | — | — | 416.58 | 582.93 | — | — | 13,020.10 | 2181.06 | — | 35,445.2 | — |
| 4639 | MD50-14-75378 | 50-603064 | 332–332 | 05/07/2014 | — | — | 59.01 | 183.01 | — | — | 4135.80 | 218.11 | — | 13,426.2 | — |
| 4639 | MD50-14-75379 | 50-603064 | 500–500 | 05/07/2014 | — | — | — | — | — | — | 245.08 | — | — | 1503.74 | — |
| 4639 | MD50-14-75367 | 50-603062 | 122–122 | 05/06/2014 | 301.29 | — | — | — | — | — | 459.53 | — | — | 6444.58 | — |
| 4639 | MD50-14-75368 | 50-603062 | 217–217 | 05/06/2014 | — | — | — | — | — | — | 536.12 | 54.53 | — | 6981.63 | — |
| 4639 | MD50-14-75369 | 50-603062 | 450–450 | 05/06/2014 | — | — | — | — | — | — | — | — | — | 644.46 | — |
| 4639 | MD50-14-75370 | 50-603062 | 337–337 | 05/06/2014 | — | — | — | — | — | — | 160.84 | — | — | 2309.31 | — |
| 4639 | MD50-14-75357 | 50-24822 | 142–142 | 05/05/2014 | — | — | 135.39 | 196.57 | — | — | 191.47 | — | — | 22,556.0 | — |
| 4639 | MD50-14-75358 | 50-24822 | 235–235 | 05/05/2014 | — | — | 218.70 | 189.79 | — | — | 191.47 | — | — | 29,000.6 | — |
| 4639 | MD50-14-75359 | 50-24822 | 351–351 | 05/05/2014 | — | — | 90.26 | 101.67 | — | — | 84.25 | — | — | 19,333.8 | — |
| 4639 | MD50-14-75360 | 50-24822 | 450–450 | 05/05/2014 | — | — | — | — | — | — | — | — | — | 9666.88 | — |
| 4639 | MD50-14-75361 | 50-24822 | 25–25 | 05/05/2014 | — | — | — | 135.56 | — | — | — | — | — | 5907.54 | — |
| 4639 | MD50-14-75418 | 50-603503 | 133–133 | 05/02/2014 | — | — | — | 352.47 | — | — | 84.25 | — | — | 2040.79 | — |
| 4639 | MD50-14-75419 | 50-603503 | 237–237 | 05/02/2014 | — | — | 83.32 | 460.92 | — | — | — | — | — | 4296.39 | — |
| 4639 | MD50-14-75420 | 50-603503 | 347–347 | 05/02/2014 | — | — | 38.19 | 352.47 | — | — | — | — | — | 3437.11 | — |
| 4639 | MD50-14-75421 | 50-603503 | 450–450 | 05/02/2014 | — | — | — | 244.02 | — | — | — | — | — | 2846.36 | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Ethanol | Hexanone[2-] | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **na[d]** | **145** | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 4639 | MD50-14-75385 | 50-603467 | 143–143 | 05/01/2014 | — | — | 97.20 | 386.36 | — | — | — | — | — | 12,889.2 | — |
| 4639 | MD50-14-75386 | 50-603467 | 244–244 | 05/01/2014 | — | — | 249.95 | 637.15 | — | — | — | — | — | 21,481.9 | — |
| 4639 | MD50-14-75387 | 50-603467 | 360–360 | 05/01/2014 | — | — | — | 610.04 | — | — | — | — | — | 21,481.9 | — |
| 4639 | MD50-14-75388 | 50-603467 | 500–500 | 05/01/2014 | — | — | — | 237.24 | — | — | — | — | — | 7518.68 | — |
| 4639 | MD50-14-75389 | 50-603467 | 600–600 | 05/01/2014 | — | 319.33 | — | 135.56 | 64.84 | — | — | — | — | 3974.16 | — |
| 4639 | MD50-14-75422 | 50-613185 | 600–600 | 04/30/2014 | — | — | — | — | — | — | — | — | — | 150.37 | — |
| 4639 | MD50-14-75423 | 50-613185 | 450–450 | 04/30/2014 | — | — | — | — | — | — | — | — | — | 1557.44 | — |
| 4639 | MD50-14-75424 | 50-613185 | 350–350 | 04/30/2014 | — | — | — | — | — | — | — | — | — | 3813.05 | — |
| 4639 | MD50-14-75425 | 50-613185 | 235–235 | 04/30/2014 | — | — | 52.07 | 122.01 | — | — | — | — | — | 6981.63 | — |
| 4639 | MD50-14-75426 | 50-613185 | 145–145 | 04/30/2014 | — | — | — | 67.78 | — | — | — | — | — | 3866.75 | — |
| 4639 | MD50-14-75390 | 50-603468 | 354–354 | 04/29/2014 | — | — | 298.55 | 393.14 | — | — | — | — | — | 29,537.7 | — |
| 4639 | MD50-14-75391 | 50-603468 | 233–233 | 04/29/2014 | — | — | 451.29 | 406.69 | — | — | — | — | — | 30,074.7 | — |
| 4639 | MD50-14-75392 | 50-603468 | 142–142 | 04/29/2014 | — | — | 62.49 | 325.35 | — | — | — | — | — | 21,481.9 | — |
| 4639 | MD50-14-75393 | 50-603468 | 403–403 | 04/29/2014 | — | — | 187.46 | 318.58 | — | — | — | — | — | 25,241.3 | — |
| 4639 | MD50-14-75394 | 50-613184 | 500–500 | 04/29/2014 | — | — | — | 67.78 | — | — | — | — | — | 4779.73 | — |
| 4639 | MD50-14-75395 | 50-613184 | 600–600 | 04/29/2014 | — | — | — | — | — | — | — | — | — | 859.28 | — |
| 4639 | MD50-14-75396 | 50-613184 | 664.5–664.5 | 04/29/2014 | — | — | — | — | — | — | — | — | — | 166.49 | — |
| 4639 | MD50-14-75351 | 50-24813 | 600–600 | 04/28/2014 | — | — | — | — | — | — | — | — | — | 3383.41 | — |
| 4639 | MD50-14-75352 | 50-24813 | 450–450 | 04/28/2014 | — | — | 121.50 | 264.35 | — | — | — | — | — | 25,778.3 | — |
| 4639 | MD50-14-75353 | 50-24813 | 358–358 | 04/28/2014 | — | — | 48.60 | 515.14 | — | — | — | — | — | 51,019.6 | — |
| 4639 | MD50-14-75354 | 50-24813 | 241–241 | 04/28/2014 | — | — | 763.72 | 948.95 | — | — | — | — | — | 80,557.3 | — |
| 4639 | MD50-14-75355 | 50-24813 | 150–150 | 04/28/2014 | — | — | 347.15 | 603.26 | — | — | — | — | — | 41,352.8 | — |
| 4639 | MD50-14-75356 | 50-24813 | 25–25 | 04/28/2014 | — | — | — | 393.14 | — | — | — | — | — | 12,889.2 | — |
| 4639 | MD50-14-75397 | 50-603470 | 650–650 | 04/25/2014 | — | — | — | — | — | — | — | — | — | 49.95 | — |
| 4639 | MD50-14-75398 | 50-603470 | 600–600 | 04/25/2014 | — | — | — | — | — | — | — | — | — | 1611.15 | — |
| 4639 | MD50-14-75399 | 50-603470 | 450–450 | 04/25/2014 | — | — | 79.84 | 135.56 | — | — | 214.45 | — | — | 18,796.7 | — |
| 4639 | MD50-14-75400 | 50-603470 | 351–351 | 04/25/2014 | — | — | 347.15 | 305.02 | — | — | 651.01 | — | — | 38,667.5 | — |
| 4639 | MD50-14-75401 | 50-603470 | 278–278 | 04/25/2014 | — | — | 659.58 | 474.47 | — | — | 919.07 | 92.70 | — | 50,482.6 | — |

**Table 5.2-4 (continued)**

| Sampling Plan 2014 | Field Sample ID | Location ID | Depth (ft) | Date | Ethanol | Hexanone[2-] | Methylene Chloride | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethane[1,1,2-] | Trichloroethene | Trichlorofluoromethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **na[d]** | **145** | **665** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **169** | **2020** | **4,540,000** |
| 4639 | MD50-14-75402 | 50-603470 | 203–203 | 04/25/2014 | — | — | 555.43 | 569.37 | — | — | 765.89 | 125.41 | — | 45,112.1 | — |
| 4639 | MD50-14-75403 | 50-603470 | 83–83 | 04/25/2014 | — | — | 41.66 | 677.82 | — | — | 291.04 | — | — | 13,963.3 | — |
| 4639 | MD50-14-75404 | 50-603471 | 450–450 | 04/24/2014 | — | — | 183.99 | 542.26 | — | — | 99.57 | — | — | 26,315.4 | — |
| 4639 | MD50-14-75405 | 50-603471 | 360–360 | 04/24/2014 | — | — | 763.72 | 948.95 | — | — | 367.63 | — | — | 45,649.1 | — |
| 4639 | MD50-14-75406 | 50-603471 | 288–288 | 04/24/2014 | — | — | 1596.87 | 1152.29 | — | — | 513.15 | — | — | 53,704.9 | — |
| 4639 | MD50-14-75407 | 50-603471 | 209–209 | 04/24/2014 | — | — | 451.29 | 948.95 | — | — | 237.43 | — | — | 39,741.6 | — |
| 4639 | MD50-14-75408 | 50-603471 | 90.0–90.0 | 04/24/2014 | — | — | 93.73 | 515.14 | — | — | 137.86 | — | — | 10,203.9 | — |
| 4639 | MD50-14-75409 | 50-613183 | 550–550 | 04/24/2014 | — | — | — | — | — | — | — | — | — | 3813.05 | — |
| 4639 | MD50-14-75410 | 50-613183 | 642.5–642.5 | 04/24/2014 | — | — | — | — | — | — | — | — | — | 80.56 | — |
| 4639 | MD50-14-75754 | 50-603471 | Unknown[c] | 04/24/2014 | — | — | 211.76 | 813.38 | — | — | 283.38 | — | — | 17,722.6 | — |
| 4639 | MD50-14-75411 | 50-603472 | 146–146 | 04/23/2014 | — | — | 347.15 | 813.38 | — | — | 122.54 | — | — | 12,889.2 | — |
| 4639 | MD50-14-75412 | 50-603472 | 292–292 | 04/23/2014 | — | — | 763.72 | 1558.99 | — | — | 137.86 | — | — | 29,537.7 | — |
| 4639 | MD50-14-75413 | 50-603472 | 364–364 | 04/23/2014 | — | — | 243.00 | 881.17 | — | — | — | — | — | 18,259.7 | — |
| 4639 | MD50-14-75414 | 50-603472 | 450–450 | 04/23/2014 | — | — | — | 488.03 | — | — | — | — | — | 10,741.0 | — |
| 4639 | MD50-14-75415 | 50-603472 | 27–27 | 04/23/2014 | — | — | — | 474.47 | — | — | — | — | — | 2738.95 | — |
| 4639 | MD50-14-75416 | 50-613182 | 550–550 | 04/23/2014 | — | — | — | 101.67 | — | — | — | — | — | 1933.38 | — |
| 4639 | MD50-14-75417 | 50-613182 | 632.5–632.5 | 04/23/2014 | — | — | — | 10.17 | — | — | — | — | — | 33.30 | — |
| 4639 | MD50-14-75347 | 50-24784 | 450–450 | 04/22/2014 | — | — | — | 460.92 | — | — | — | — | — | 1020.39 | — |
| 4639 | MD50-14-75348 | 50-24784 | 362–362 | 04/22/2014 | — | — | — | 1152.29 | — | — | — | — | — | 2524.13 | — |
| 4639 | MD50-14-75349 | 50-24784 | 244–244 | 04/22/2014 | — | — | — | 1558.99 | — | — | 91.91 | — | — | 3222.29 | — |
| 4639 | MD50-14-75350 | 50-24784 | 155–155 | 04/22/2014 | — | — | — | 2033.46 | — | — | 130.20 | — | — | 3544.52 | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] — = Not detected.

[b] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

[c] Port was not labeled with the port depth.

[d] na = Not available.

**Table 5.2-5**
**VOC Pore-Gas Results at MDA C for FY 2013**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol | Ethyltoluene[4-] | Hexane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[a]** | **na** | **23,500,000** |
| 4463 | MD50-14-45813 | 50-603063 | 128–128 | 12/20/2013 | —[b] | — | 150.90 | 180.26 | 307.41 | 375.60 | 68.76 | — | 261.52 | — | — | — | — | — |
| 4463 | MD50-14-45810 | 50-603063 | 450–450 | 12/19/2013 | — | — | 157.18 | — | 146.39 | 217.45 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45811 | 50-603063 | 347–347 | 12/19/2013 | — | — | 201.19 | — | 224.46 | 286.64 | — | — | 55.47 | 43.59 | — | — | — | — |
| 4463 | MD50-14-45812 | 50-603063 | 228–228 | 12/19/2013 | 130.57 | — | 345.80 | 261.55 | 536.75 | 543.63 | 52.58 | — | 344.73 | 126.80 | — | — | — | — |
| 4463 | MD50-14-45814 | 50-603063 | 25–25 | 12/19/2013 | — | — | — | — | — | 153.21 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45805 | 50-603061 | 450–450 | 12/17/2013 | — | — | — | — | — | 74.13 | — | — | 35.66 | — | — | — | — | — |
| 4463 | MD50-14-45801 | 50-603061 | 25–25 | 12/16/2013 | — | — | — | — | — | 494.21 | — | — | 198.12 | — | — | — | — | — |
| 4463 | MD50-14-45802 | 50-603061 | 128–128 | 12/16/2013 | — | — | — | — | 63.43 | 350.89 | — | — | 1466.07 | — | — | — | — | — |
| 4463 | MD50-14-45803 | 50-603061 | 228–228 | 12/16/2013 | — | — | — | — | — | 123.55 | — | — | 594.36 | — | — | — | — | — |
| 4463 | MD50-14-45804 | 50-603061 | 347–347 | 12/16/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45819 | 50-603383 | 26–26 | 12/13/2013 | — | — | 94.31 | — | 97.59 | 247.11 | — | — | 43.59 | — | 87.75 | — | — | — |
| 4463 | MD50-14-45823 | 50-603383 | 450–450 | 12/13/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45820 | 50-603383 | 139–139 | 12/12/2013 | — | — | 138.32 | — | 126.87 | 222.40 | — | — | 51.51 | — | 203.21 | — | — | — |
| 4463 | MD50-14-45821 | 50-603383 | 244–244 | 12/12/2013 | — | — | 289.22 | — | 146.39 | 271.82 | — | — | 67.36 | 51.51 | 346.38 | — | — | — |
| 4463 | MD50-14-45822 | 50-603383 | 359–359 | 12/12/2013 | — | — | 163.47 | — | — | 153.21 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45786 | 50-24784 | 450–450 | 12/11/2013 | — | — | 169.76 | — | — | 123.55 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45787 | 50-24784 | 362–362 | 12/11/2013 | — | — | 232.63 | — | — | 138.38 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45788 | 50-24784 | 244–244 | 12/11/2013 | — | — | 182.33 | — | 92.71 | 93.90 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45789 | 50-24784 | 155–155 | 12/11/2013 | — | — | 150.90 | — | 297.66 | 98.84 | — | — | — | — | 64.66 | — | — | — |
| 4463 | MD50-14-45858 | 50-603472 | 450–450 | 12/10/2013 | 90.21 | — | 176.04 | — | 121.99 | 197.69 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45859 | 50-603472 | 27–27 | 12/10/2013 | — | — | — | — | 229.34 | — | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45860 | 50-613182 | 550–550 | 12/10/2013 | — | — | 119.46 | — | — | 197.69 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45861 | 50-613182 | 632–632 | 12/10/2013 | — | — | — | — | — | — | — | — | — | — | — | 22.60 | — | — |
| 4463 | MD50-14-45855 | 50-603472 | 146–146 | 12/09/2013 | — | — | 188.62 | — | 585.55 | 143.32 | — | 44.49 | — | 118.87 | 92.37 | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol | Ethyltoluene[4-] | Hexane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[e]** | **na** | **23,500,000** |
| 4463 | MD50-14-45856 | 50-603472 | 292–292 | 12/09/2013 | — | — | 396.10 | 166.12 | 536.75 | 331.12 | — | — | — | 154.53 | 45.26 | — | — | — |
| 4463 | MD50-14-45857 | 50-603472 | 364–364 | 12/09/2013 | — | — | 138.32 | — | 68.31 | 148.26 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45853 | 50-613183 | 550–550 | 12/06/2013 | — | — | 144.61 | — | — | 326.18 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45854 | 50-613183 | 642.5–642.5 | 12/06/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45852 | 50-603471 | 90.0–90.0 | 12/05/2013 | — | — | 1446.08 | — | 1805.45 | 336.06 | — | 117.30 | — | 245.67 | 87.75 | — | — | — |
| 4463 | MD50-14-45848 | 50-603471 | 450–450 | 12/04/2013 | — | — | 389.81 | — | 361.09 | 425.02 | — | — | — | 106.98 | — | — | — | — |
| 4463 | MD50-14-45849 | 50-603471 | 360–360 | 12/04/2013 | — | — | 817.35 | — | 829.53 | 889.58 | — | — | — | 285.29 | — | — | — | — |
| 4463 | MD50-14-45850 | 50-603471 | 288–288 | 12/04/2013 | — | — | 817.35 | — | 1268.69 | 691.90 | — | — | — | 368.50 | — | — | — | — |
| 4463 | MD50-14-45851 | 50-603471 | 209–209 | 12/04/2013 | — | — | 691.60 | — | 1073.51 | 642.48 | — | — | — | 313.03 | — | — | — | — |
| 4463 | MD50-14-45845 | 50-603470 | 278–278 | 12/03/2013 | — | — | 458.97 | — | 878.33 | 988.43 | — | — | — | 285.29 | — | — | — | — |
| 4463 | MD50-14-45846 | 50-603470 | 203–203 | 12/03/2013 | — | — | 276.64 | — | 878.33 | 593.06 | — | — | — | 249.63 | — | — | — | — |
| 4463 | MD50-14-45847 | 50-603470 | 83–83 | 12/03/2013 | — | — | 257.78 | — | 927.12 | 252.05 | — | — | — | 130.76 | — | — | — | — |
| 4463 | MD50-14-45841 | 50-603470 | 650–650 | 12/02/2013 | — | — | 6.92 | — | — | 28.66 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45842 | 50-603470 | 600–600 | 12/02/2013 | — | — | 69.16 | — | — | 266.88 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45843 | 50-603470 | 450–450 | 12/02/2013 | — | — | 201.19 | — | 78.07 | 494.21 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45844 | 50-603470 | 351–351 | 12/02/2013 | — | — | 396.10 | — | 341.57 | 889.58 | — | — | — | 126.80 | — | — | — | — |
| 4463 | MD50-14-45790 | 50-24813 | 600–600 | 11/26/2013 | — | — | — | — | — | 88.96 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45791 | 50-24813 | 450–450 | 11/26/2013 | — | — | 414.96 | — | 136.63 | 691.90 | — | — | — | 47.55 | — | — | — | — |
| 4463 | MD50-14-45792 | 50-24813 | 358–358 | 11/26/2013 | — | — | 754.48 | — | 536.75 | 1037.85 | — | — | — | 190.19 | — | — | — | — |
| 4463 | MD50-14-45793 | 50-24813 | 241–241 | 11/26/2013 | — | — | 1257.46 | — | 1707.85 | 1136.69 | — | — | — | 475.48 | — | — | — | — |
| 4463 | MD50-14-45794 | 50-24813 | 150–150 | 11/26/2013 | — | — | 1508.95 | — | 2732.57 | 593.06 | — | 93.03 | — | 515.11 | — | — | — | — |
| 4463 | MD50-14-45795 | 50-24813 | 25–25 | 11/26/2013 | — | — | 1005.97 | — | 975.92 | 247.11 | — | — | — | 51.51 | — | — | — | — |
| 4463 | MD50-14-45870 | 50-613185 | 145–145 | 11/22/2013 | 379.84 | — | 75.45 | — | 97.59 | 98.84 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45866 | 50-613185 | 600–600 | 11/21/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45867 | 50-613185 | 450–450 | 11/21/2013 | — | — | 62.87 | — | — | 118.61 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45868 | 50-613185 | 350–350 | 11/21/2013 | — | — | 100.60 | — | — | 143.32 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45869 | 50-613185 | 235–235 | 11/21/2013 | — | — | 138.32 | — | 97.59 | 168.03 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45829 | 50-603468 | 354–354 | 11/20/2013 | — | — | 509.27 | — | 375.73 | 593.06 | — | — | — | 138.68 | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol | Ethyltoluene[4-] | Hexane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[e]** | **na** | **23,500,000** |
| 4463 | MD50-14-45830 | 50-603468 | 233–233 | 11/20/2013 | — | — | 484.12 | — | 536.75 | 484.33 | — | — | — | 174.34 | — | — | — | — |
| 4463 | MD50-14-45831 | 50-603468 | 142–142 | 11/20/2013 | — | — | 289.22 | — | 380.61 | 306.41 | — | — | — | 110.95 | — | — | — | — |
| 4463 | MD50-14-45832 | 50-603468 | 403–403 | 11/20/2013 | — | — | 396.10 | — | 204.94 | 494.21 | — | — | — | 71.32 | — | — | — | — |
| 4463 | MD50-14-45833 | 50-613184 | 500–500 | 11/19/2013 | — | — | 144.61 | — | — | 242.16 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45834 | 50-613184 | 600–600 | 11/19/2013 | — | — | — | — | — | 118.61 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45835 | 50-613184 | 664.5–664.5 | 11/19/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45824 | 50-603467 | 143–143 | 11/18/2013 | — | — | 389.81 | — | 536.75 | 207.57 | — | — | — | 110.95 | — | — | — | — |
| 4463 | MD50-14-45827 | 50-603467 | 500–500 | 11/18/2013 | — | — | 238.92 | — | — | 242.16 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45825 | 50-603467 | 244–244 | 11/15/2013 | — | — | 534.42 | — | 634.35 | 331.12 | — | — | — | 174.34 | — | — | — | — |
| 4463 | MD50-14-45826 | 50-603467 | 360–360 | 11/15/2013 | — | — | 383.53 | — | 341.57 | 276.76 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45828 | 50-603467 | 600–600 | 11/15/2013 | — | — | — | — | — | 44.97 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45862 | 50-603503 | 133–133 | 11/14/2013 | — | — | — | — | 102.47 | 54.36 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45863 | 50-603503 | 237–237 | 11/14/2013 | — | — | 100.60 | — | 136.63 | 74.13 | — | — | — | — | 42.03 | — | — | — |
| 4463 | MD50-14-45864 | 50-603503 | 347–347 | 11/14/2013 | — | — | 88.02 | — | 63.43 | 79.07 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45865 | 50-603503 | 450–450 | 11/14/2013 | — | — | 88.02 | — | — | 84.02 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45815 | 50-603064 | 113–113 | 11/13/2013 | — | — | — | — | 731.94 | 395.37 | — | — | 554.73 | 213.97 | — | — | — | — |
| 4463 | MD50-14-45816 | 50-603064 | 214–214 | 11/13/2013 | — | — | — | — | 439.16 | 593.06 | — | — | 515.11 | 174.34 | — | — | — | — |
| 4463 | MD50-14-45817 | 50-603064 | 332–332 | 11/12/2013 | — | — | 201.19 | — | — | 543.63 | — | — | 166.42 | - | — | — | — | — |
| 4463 | MD50-14-45818 | 50-603064 | 500–500 | 11/12/2013 | — | — | 57.21 | — | — | 237.22 | — | — | — | - | — | — | — | — |
| 4463 | MD50-14-45800 | 50-24822 | 25–25 | 11/08/2013 | — | — | 69.16 | — | 273.26 | 172.97 | — | — | — | - | — | — | — | — |
| 4463 | MD50-14-45796 | 50-24822 | 142–142 | 11/07/2013 | — | — | 264.07 | — | 683.14 | 593.06 | — | — | — | 138.68 | — | — | — | — |
| 4463 | MD50-14-45797 | 50-24822 | 235–235 | 11/07/2013 | — | — | 245.21 | — | 409.89 | 691.90 | — | — | — | 91.13 | — | — | — | — |
| 4463 | MD50-14-45798 | 50-24822 | 351–351 | 11/07/2013 | — | — | 251.49 | — | 151.27 | 691.90 | — | — | — | 38.43 | — | — | — | — |
| 4463 | MD50-14-45799 | 50-24822 | 450–450 | 11/07/2013 | — | — | 157.18 | — | — | 454.68 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45806 | 50-603062 | 122–122 | 11/06/2013 | — | — | — | — | 73.19 | 227.34 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45807 | 50-603062 | 217–217 | 11/06/2013 | — | — | 56.59 | — | 58.56 | 286.64 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45808 | 50-603062 | 450–450 | 11/06/2013 | — | — | — | — | — | 113.67 | — | — | — | — | — | — | — | — |
| 4463 | MD50-14-45809 | 50-603062 | 337–337 | 11/06/2013 | — | — | — | — | — | 163.09 | — | — | — | — | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol | Ethyltoluene[4-] | Hexane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[e]** | **na** | **23,500,000** |
| 4152 | MD50-13-28951 | 50-603063 | 25–25 | 04/11/2013 | — | — | — | — | — | 192.74 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28952 | 50-603063 | 128–128 | 04/11/2013 | — | — | 163.47 | — | 317.17 | 444.79 | 76.85 | — | 277.37 | 39.62 | — | — | — | — |
| 4152 | MD50-13-28953 | 50-603063 | 228–228 | 04/11/2013 | — | — | 339.51 | 208.53 | 536.75 | 543.63 | 48.54 | — | 320.95 | 126.80 | — | — | — | — |
| 4152 | MD50-13-28954 | 50-603063 | 347–347 | 04/11/2013 | — | — | 232.63 | — | 234.22 | 341.01 | — | — | 67.36 | 43.59 | — | — | — | — |
| 4152 | MD50-13-28955 | 50-603063 | 450–450 | 04/11/2013 | — | 68.47 | 176.04 | — | 161.03 | 247.11 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28942 | 50-603061 | 25–25 | 04/10/2013 | — | — | — | — | — | 642.48 | — | — | 277.37 | — | — | — | — | — |
| 4152 | MD50-13-28943 | 50-603061 | 128–128 | 04/09/2013 | — | — | 62.87 | — | 63.43 | 400.31 | — | — | 1584.95 | — | — | — | — | — |
| 4152 | MD50-13-28944 | 50-603061 | 228–228 | 04/09/2013 | — | — | 106.88 | — | — | 271.82 | — | — | 1109.46 | — | — | — | — | — |
| 4152 | MD50-13-28945 | 50-603061 | 347–347 | 04/09/2013 | — | — | 88.02 | — | — | 217.45 | — | — | 221.89 | — | — | — | — | — |
| 4152 | MD50-13-28946 | 50-603061 | 450–450 | 04/09/2013 | — | — | — | — | — | 103.79 | — | — | 51.51 | — | — | — | — | — |
| 4152 | MD50-13-28960 | 50-603383 | 26–26 | 04/08/2013 | — | — | 125.75 | — | 117.11 | 316.30 | — | — | 51.51 | — | 106.22 | — | — | — |
| 4152 | MD50-13-28961 | 50-603383 | 139–139 | 04/05/2013 | — | — | 163.47 | — | 165.91 | 291.59 | — | — | 71.32 | 36.45 | 267.87 | — | — | — |
| 4152 | MD50-13-28962 | 50-603383 | 244–244 | 04/05/2013 | — | — | 282.93 | — | 131.75 | 281.70 | — | — | 55.47 | 55.47 | 323.29 | — | — | — |
| 4152 | MD50-13-28963 | 50-603383 | 359–359 | 04/05/2013 | — | — | 138.32 | — | — | 158.15 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28964 | 50-603383 | 450–450 | 04/05/2013 | — | — | 194.91 | — | — | 197.69 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28927 | 50-24784 | 155–155 | 04/04/2013 | — | — | 163.47 | — | 278.14 | 108.73 | — | — | — | — | 64.66 | — | — | — |
| 4152 | MD50-13-28928 | 50-24784 | 244–244 | 04/04/2013 | — | — | 201.19 | — | 92.71 | 113.67 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28929 | 50-24784 | 362–362 | 04/04/2013 | — | — | 345.80 | — | — | 192.74 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28930 | 50-24784 | 450–450 | 04/04/2013 | — | — | 251.49 | — | — | 172.97 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28991 | 50-603472 | 27–27 | 04/03/2013 | — | — | — | 268.62 | — | — | — | — | — | — | — | 64.02 | — | — |
| 4152 | MD50-13-28996 | 50-613182 | 550–550 | 04/02/2013 | — | — | 138.32 | — | — | 227.34 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28997 | 50-613182 | 632.5–632.5 | 04/02/2013 | — | — | — | — | — | 5.93 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28992 | 50-603472 | 146–146 | 04/01/2013 | — | — | 213.77 | — | 585.55 | 153.21 | — | 48.54 | - | 114.91 | 101.61 | — | — | — |
| 4152 | MD50-13-28993 | 50-603472 | 292–292 | 04/01/2013 | — | — | 421.25 | 148.45 | 585.55 | 355.83 | — | — | — | 166.42 | 50.80 | — | — | — |
| 4152 | MD50-13-28994 | 50-603472 | 364–364 | 04/01/2013 | — | — | 345.80 | — | 156.15 | 360.78 | — | — | — | 47.55 | - | — | — | — |
| 4152 | MD50-13-28995 | 50-603472 | 450–450 | 04/01/2013 | — | — | 308.08 | — | 63.43 | 345.95 | — | — | — | - | - | — | — | — |
| 4152 | MD50-13-28984 | 50-603471 | 90–90 | 03/29/2013 | — | — | 1508.95 | — | 1903.04 | 296.53 | — | 133.48 | - | 241.70 | 92.37 | — | — | — |
| 4152 | MD50-13-28989 | 50-613183 | 550–550 | 03/28/2013 | — | — | 144.61 | — | — | 360.78 | — | — | — | — | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol | Ethyltoluene[4-] | Hexane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[e]** | **na** | **23,500,000** |
| 4152 | MD50-13-28990 | 50-613183 | 642.5–642.5 | 03/28/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | 38.75 |
| 4152 | MD50-13-28985 | 50-603471 | 209–209 | 03/27/2013 | — | — | 754.48 | — | 1512.67 | 494.21 | — | 84.94 | — | 384.35 | — | — | — | — |
| 4152 | MD50-13-28986 | 50-603471 | 288–288 | 03/27/2013 | — | — | 1131.71 | — | 1659.06 | 1037.85 | — | — | — | 475.48 | — | — | — | — |
| 4152 | MD50-13-28987 | 50-603471 | 360–360 | 03/27/2013 | — | — | 754.48 | — | 731.94 | 939.00 | — | — | — | 253.59 | — | — | — | — |
| 4152 | MD50-13-28988 | 50-603471 | 450–450 | 03/27/2013 | — | — | 521.85 | — | 458.68 | 494.21 | — | — | — | 138.68 | — | — | — | — |
| 4152 | MD50-13-28977 | 50-603470 | 83–83 | 03/25/2013 | — | — | 282.93 | — | 1073.51 | 281.70 | — | — | — | 154.53 | — | — | — | — |
| 4152 | MD50-13-28978 | 50-603470 | 203–203 | 03/25/2013 | — | — | 370.95 | — | 1122.30 | 840.16 | — | — | — | 305.10 | — | — | — | — |
| 4152 | MD50-13-28979 | 50-603470 | 278–278 | 03/25/2013 | — | — | 540.71 | — | 1024.71 | 1186.11 | — | — | — | 328.88 | — | — | — | — |
| 4152 | MD50-13-28980 | 50-603470 | 351–351 | 03/22/2013 | — | — | 364.66 | — | 326.93 | 840.16 | — | — | — | 126.80 | — | — | — | — |
| 4152 | MD50-13-28981 | 50-603470 | 450–450 | 03/22/2013 | — | — | 194.91 | — | 63.43 | 494.21 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28982 | 50-603470 | 600–600 | 03/22/2013 | — | — | 69.16 | — | — | 271.82 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28983 | 50-603470 | 650–650 | 03/22/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28931 | 50-24813 | 25–25 | 03/20/2013 | — | — | 1068.84 | — | 1024.71 | 296.53 | — | — | — | 59.44 | — | — | — | — |
| 4152 | MD50-13-28932 | 50-24813 | 150–150 | 03/20/2013 | — | — | 1634.70 | — | 2830.16 | 691.90 | — | 101.12 | — | 554.73 | 73.89 | — | — | — |
| 4152 | MD50-13-28933 | 50-24813 | 241–241 | 03/19/2013 | — | — | 1697.57 | — | 2244.61 | 1581.48 | — | — | — | 673.60 | — | — | — | — |
| 4152 | MD50-13-28934 | 50-24813 | 358–358 | 03/19/2013 | — | — | 691.60 | — | 536.75 | 1037.85 | — | — | — | 190.19 | — | — | — | — |
| 4152 | MD50-13-28935 | 50-24813 | 450–450 | 03/19/2013 | — | — | 427.54 | — | 136.63 | 741.32 | — | — | — | 51.51 | — | — | — | — |
| 4152 | MD50-13-28936 | 50-24813 | 600–600 | 03/19/2013 | — | — | 119.46 | — | — | 291.59 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-29002 | 50-613185 | 145–145 | 03/18/2013 | — | — | 88.02 | — | 102.47 | 108.73 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-29003 | 50-613185 | 235–235 | 03/18/2013 | — | — | 144.61 | — | 107.35 | 187.80 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-29004 | 50-613185 | 350–350 | 03/18/2013 | — | — | 100.60 | — | — | 158.15 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-29005 | 50-613185 | 450–450 | 03/18/2013 | — | — | 69.16 | — | — | 118.61 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-29006 | 50-613185 | 600–600 | 03/18/2013 | — | — | — | — | — | 54.36 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28970 | 50-603468 | 142–142 | 03/15/2013 | — | — | 201.19 | — | 258.62 | 138.38 | — | — | — | 63.40 | — | — | — | — |
| 4152 | MD50-13-28971 | 50-603468 | 233–233 | 03/15/2013 | — | — | 509.27 | — | 536.75 | 425.02 | — | — | — | 158.50 | — | — | — | — |
| 4152 | MD50-13-28972 | 50-603468 | 354–354 | 03/15/2013 | — | — | 502.98 | — | 390.37 | 543.63 | — | — | — | 138.68 | — | — | — | — |
| 4152 | MD50-13-28973 | 50-603468 | 403–403 | 03/15/2013 | — | — | 446.40 | — | 234.22 | 593.06 | — | — | — | 91.13 | — | — | — | — |
| 4152 | MD50-13-28974 | 50-613184 | 500–500 | 03/14/2013 | — | — | 125.75 | — | — | 222.40 | — | — | — | — | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Acetone | Carbon Disulfide | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol | Ethyltoluene[4-] | Hexane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **20,300** | **478,000** | **5650** | **173,000,000** | **12,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na[e]** | **na** | **23,500,000** |
| 4152 | MD50-13-28975 | 50-613184 | 600–600 | 03/14/2013 | — | — | — | — | — | 118.61 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28976 | 50-613184 | 664.5–664.5 | 03/14/2013 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28965 | 50-603467 | 143–143 | 03/13/2013 | — | — | 421.25 | — | 585.55 | 207.57 | — | — | — | 99.06 | — | — | — | — |
| 4152 | MD50-13-28966 | 50-603467 | 244–244 | 03/12/2013 | — | — | 691.60 | — | 731.94 | 390.43 | — | — | — | 186.23 | — | — | 171.94 | — |
| 4152 | MD50-13-28967 | 50-603467 | 360–360 | 03/12/2013 | — | — | 515.56 | — | 351.33 | 301.47 | — | — | — | 99.06 | — | — | — | — |
| 4152 | MD50-13-28968 | 50-603467 | 500–500 | 03/12/2013 | — | — | 232.63 | — | 42.45 | 227.34 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28969 | 50-603467 | 600–600 | 03/12/2013 | 109.20 | — | 125.75 | — | — | 133.44 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28998 | 50-603503 | 133–133 | 03/11/2013 | — | — | 69.16 | — | 107.35 | 49.42 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28999 | 50-603503 | 237–237 | 03/11/2013 | — | — | 119.46 | — | 141.51 | 84.02 | — | — | — | — | 50.80 | — | — | — |
| 4152 | MD50-13-29000 | 50-603503 | 347–347 | 03/11/2013 | — | — | 94.31 | — | 58.56 | 84.02 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-29001 | 50-603503 | 450–450 | 03/11/2013 | — | — | 94.31 | — | — | 84.02 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28937 | 50-24822 | 25–25 | 03/08/2013 | — | — | 81.73 | — | 297.66 | 192.74 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28938 | 50-24822 | 142–142 | 03/07/2013 | — | — | 238.92 | — | 585.55 | 593.06 | — | — | — | 122.83 | — | — | — | — |
| 4152 | MD50-13-28939 | 50-24822 | 235–235 | 03/07/2013 | — | — | 345.80 | — | 585.55 | 939.00 | — | — | — | 162.46 | — | — | — | — |
| 4152 | MD50-13-28940 | 50-24822 | 351–351 | 03/07/2013 | — | — | 245.21 | — | 161.03 | 642.48 | — | — | — | 43.59 | — | — | — | — |
| 4152 | MD50-13-28941 | 50-24822 | 450–450 | 03/07/2013 | — | — | 163.47 | — | — | 454.68 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28956 | 50-603064 | 113–113 | 03/06/2013 | — | — | 207.48 | — | 1024.71 | 543.63 | — | — | 713.23 | 265.48 | 46.18 | — | — | — |
| 4152 | MD50-13-28957 | 50-603064 | 214–214 | 03/06/2013 | — | — | 364.66 | — | 731.94 | 939.00 | — | — | 832.10 | 277.37 | — | — | — | — |
| 4152 | MD50-13-28958 | 50-603064 | 332–332 | 03/06/2013 | — | — | 188.62 | — | 68.31 | 543.63 | — | — | 170.38 | 37.64 | — | — | — | — |
| 4152 | MD50-13-28959 | 50-603064 | 500–500 | 03/06/2013 | — | — | 62.87 | — | — | 266.88 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28947 | 50-603062 | 122–122 | 03/05/2013 | — | — | — | — | 82.95 | 227.34 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28948 | 50-603062 | 217–217 | 03/05/2013 | — | — | 62.87 | — | 63.43 | 286.64 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28949 | 50-603062 | 337–337 | 03/05/2013 | — | — | — | — | — | 172.97 | — | — | — | — | — | — | — | — |
| 4152 | MD50-13-28950 | 50-603062 | 450–450 | 03/05/2013 | — | — | — | — | — | 118.61 | — | — | — | — | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] | Trimethylbenzene[1,3,5-] | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **145** | **665** | **na** | **136** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **14,100** | **na** | **40,900** |
| 4463 | MD50-14-45813 | 50-603063 | 128–128 | 12/20/2013 | — | — | — | — | 1016.73 | — | — | 5054.86 | 708.84 | 9666.88 | — | — | — | — |
| 4463 | MD50-14-45810 | 50-603063 | 450–450 | 12/19/2013 | — | — | — | — | 338.91 | — | — | 206.79 | — | 8055.73 | — | — | — | — |
| 4463 | MD50-14-45811 | 50-603063 | 347–347 | 12/19/2013 | — | 59.01 | — | — | 637.15 | — | — | 1378.60 | 51.80 | 12,352.10 | — | — | — | — |
| 4463 | MD50-14-45812 | 50-603063 | 228–228 | 12/19/2013 | — | — | — | — | 1626.77 | — | — | 5973.93 | 654.32 | 23,630.10 | 56.15 | — | — | — |
| 4463 | MD50-14-45814 | 50-603063 | 25–25 | 12/19/2013 | — | — | — | — | 332.13 | — | — | 2450.84 | 267.18 | 1396.33 | — | — | — | — |
| 4463 | MD50-14-45805 | 50-603061 | 450–450 | 12/17/2013 | — | — | — | — | — | — | — | 995.66 | — | 343.71 | — | — | — | — |
| 4463 | MD50-14-45801 | 50-603061 | 25–25 | 12/16/2013 | — | — | — | — | 108.45 | — | — | 9190.66 | 1254.11 | 472.60 | — | — | — | — |
| 4463 | MD50-14-45802 | 50-603061 | 128–128 | 12/16/2013 | — | — | — | — | 291.46 | — | — | 27,572.00 | 4362.12 | 2685.24 | — | — | — | — |
| 4463 | MD50-14-45803 | 50-603061 | 228–228 | 12/16/2013 | — | 32.63 | — | — | 101.67 | — | — | 9190.66 | 1417.69 | 1718.56 | — | — | — | — |
| 4463 | MD50-14-45804 | 50-603061 | 347–347 | 12/16/2013 | — | — | — | — | — | — | — | 919.07 | 52.89 | 177.23 | — | — | — | — |
| 4463 | MD50-14-45819 | 50-603383 | 26–26 | 12/13/2013 | — | - | — | — | 813.38 | — | — | 1072.24 | 147.22 | 2524.13 | — | — | — | — |
| 4463 | MD50-14-45823 | 50-603383 | 450–450 | 12/13/2013 | — | — | — | — | — | — | 79.09 | — | — | — | — | — | — | — |
| 4463 | MD50-14-45820 | 50-603383 | 139–139 | 12/12/2013 | — | — | — | — | 1016.73 | — | — | 995.66 | 147.22 | 3759.34 | — | — | — | — |
| 4463 | MD50-14-45821 | 50-603383 | 244–244 | 12/12/2013 | — | 62.49 | — | — | 1355.64 | — | — | 765.89 | 163.58 | 5907.54 | — | — | — | — |
| 4463 | MD50-14-45822 | 50-603383 | 359–359 | 12/12/2013 | — | — | — | — | 332.13 | — | — | 336.99 | — | 1825.97 | — | — | — | — |
| 4463 | MD50-14-45786 | 50-24784 | 450–450 | 12/11/2013 | — | — | — | — | 359.25 | — | — | — | — | 751.87 | — | — | — | — |
| 4463 | MD50-14-45787 | 50-24784 | 362–362 | 12/11/2013 | — | — | — | — | 948.95 | — | — | — | — | 1933.38 | — | — | — | — |
| 4463 | MD50-14-45788 | 50-24784 | 244–244 | 12/11/2013 | — | — | — | — | 1558.99 | — | — | 91.91 | — | 3061.18 | — | — | — | — |
| 4463 | MD50-14-45789 | 50-24784 | 155–155 | 12/11/2013 | — | — | — | — | 2169.02 | — | — | 145.52 | — | 3329.70 | — | — | — | — |
| 4463 | MD50-14-45858 | 50-603472 | 450–450 | 12/10/2013 | — | 52.07 | — | — | 521.92 | — | — | — | — | 8055.73 | — | — | — | — |
| 4463 | MD50-14-45859 | 50-603472 | 27–27 | 12/10/2013 | — | — | — | — | 420.25 | — | — | — | — | 2363.01 | — | — | — | — |
| 4463 | MD50-14-45860 | 50-613182 | 550–550 | 12/10/2013 | — | — | — | 7.86 (J) | 155.90 | — | — | — | — | 2900.06 | — | — | — | — |
| 4463 | MD50-14-45861 | 50-613182 | 632–632 | 12/10/2013 | — | — | — | — | — | — | 21.09 | — | — | 10.74 | — | — | — | 3.99 |
| 4463 | MD50-14-45855 | 50-603472 | 146–146 | 12/09/2013 | — | 381.86 | — | — | 813.38 | — | — | 107.22 | — | 12889.20 | — | — | — | — |
| 4463 | MD50-14-45856 | 50-603472 | 292–292 | 12/09/2013 | — | 763.72 | — | — | 1423.42 | — | — | 114.88 | — | 26315.40 | — | — | — | — |
| 4463 | MD50-14-45857 | 50-603472 | 364–364 | 12/09/2013 | — | 104.14 | — | — | 372.80 | — | 25.61 | — | — | 7518.68 | — | — | — | — |
| 4463 | MD50-14-45853 | 50-613183 | 550–550 | 12/06/2013 | — | — | — | — | 81.34 | — | — | — | — | 3544.52 | — | — | — | — |
| 4463 | MD50-14-45854 | 50-613183 | 642.5–642.5 | 12/06/2013 | — | — | — | — | — | — | — | — | — | 64.45 | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] | Trimethylbenzene[1,3,5-] | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **145** | **665** | **na** | **136** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **14,100** | **na** | **40,900** |
| 4463 | MD50-14-45852 | 50-603471 | 90.0–90.0 | 12/05/2013 | — | 249.95 | — | — | 1084.51 | — | — | 352.31 | 53.44 | 20,944.90 | — | — | — | — |
| 4463 | MD50-14-45848 | 50-603471 | 450–450 | 12/04/2013 | — | 232.59 | — | — | 603.26 | — | — | 114.88 | — | 27,389.50 | — | — | — | — |
| 4463 | MD50-14-45849 | 50-603471 | 360–360 | 12/04/2013 | — | 972.01 | — | — | 1084.51 | — | — | 367.63 | — | 51,556.70 | — | — | — | — |
| 4463 | MD50-14-45850 | 50-603471 | 288–288 | 12/04/2013 | — | 1388.59 | — | — | 1084.51 | — | — | 398.26 | — | 48,334.40 | — | — | — | — |
| 4463 | MD50-14-45851 | 50-603471 | 209–209 | 12/04/2013 | — | 729.01 | — | — | 1016.73 | — | — | 283.38 | — | 45,112.10 | — | — | — | — |
| 4463 | MD50-14-45845 | 50-603470 | 278–278 | 12/03/2013 | — | 729.01 | — | — | 474.47 | — | — | 765.89 | — | 51,019.60 | — | — | — | — |
| 4463 | MD50-14-45846 | 50-603470 | 203–203 | 12/03/2013 | — | 416.58 | — | — | 420.25 | — | — | 651.01 | 76.34 | 32,760.00 | — | — | — | — |
| 4463 | MD50-14-45847 | 50-603470 | 83–83 | 12/03/2013 | — | 38.19 | — | — | 677.82 | — | — | 306.36 | 59.98 | 13,426.20 | — | — | — | — |
| 4463 | MD50-14-45841 | 50-603470 | 650–650 | 12/02/2013 | — | — | — | — | — | — | — | — | — | 40.82 | — | — | — | — |
| 4463 | MD50-14-45842 | 50-603470 | 600–600 | 12/02/2013 | — | — | — | — | — | — | — | — | — | 1772.26 | — | — | — | — |
| 4463 | MD50-14-45843 | 50-603470 | 450–450 | 12/02/2013 | — | 72.90 | — | — | 122.01 | — | — | 168.50 | — | 16,111.50 | — | — | — | — |
| 4463 | MD50-14-45844 | 50-603470 | 351–351 | 12/02/2013 | — | 347.15 | — | — | 311.80 | — | — | 582.08 | — | 37,056.40 | — | — | — | — |
| 4463 | MD50-14-45790 | 50-24813 | 600–600 | 11/26/2013 | — | — | — | — | — | — | — | — | — | 1074.10 | — | — | — | — |
| 4463 | MD50-14-45791 | 50-24813 | 450–450 | 11/26/2013 | — | 149.27 | — | — | 271.13 | — | — | — | — | 26,852.40 | — | — | — | — |
| 4463 | MD50-14-45792 | 50-24813 | 358–358 | 11/26/2013 | — | 79.84 | — | — | 542.26 | — | — | — | — | 52,093.70 | — | — | — | — |
| 4463 | MD50-14-45793 | 50-24813 | 241–241 | 11/26/2013 | — | 902.58 | — | — | 813.38 | — | — | — | — | 64,445.80 | — | — | — | — |
| 4463 | MD50-14-45794 | 50-24813 | 150–150 | 11/26/2013 | — | 555.43 | — | — | 650.71 | — | — | — | — | 42,426.90 | — | — | — | — |
| 4463 | MD50-14-45795 | 50-24813 | 25–25 | 11/26/2013 | — | — | — | — | 393.14 | — | — | — | — | 11,815.10 | — | — | — | — |
| 4463 | MD50-14-45870 | 50-613185 | 145–145 | 11/22/2013 | — | — | — | — | 81.34 | — | — | — | — | 4296.39 | — | — | — | — |
| 4463 | MD50-14-45866 | 50-613185 | 600–600 | 11/21/2013 | — | — | — | — | — | — | — | — | — | 112.78 | — | — | — | — |
| 4463 | MD50-14-45867 | 50-613185 | 450–450 | 11/21/2013 | — | — | — | — | — | — | — | — | — | 1772.26 | — | — | — | — |
| 4463 | MD50-14-45868 | 50-613185 | 350–350 | 11/21/2013 | — | — | — | — | 61.00 | — | — | — | — | 3759.34 | — | — | — | — |
| 4463 | MD50-14-45869 | 50-613185 | 235–235 | 11/21/2013 | — | 69.43 | — | — | 122.01 | — | — | — | — | 7518.68 | — | — | — | — |
| 4463 | MD50-14-45829 | 50-603468 | 354–354 | 11/20/2013 | — | 336.73 | — | — | 393.14 | — | — | — | — | 29,000.60 | — | — | — | — |
| 4463 | MD50-14-45830 | 50-603468 | 233–233 | 11/20/2013 | — | 486.01 | — | — | 379.58 | — | — | — | — | 26,852.40 | — | — | — | — |
| 4463 | MD50-14-45831 | 50-603468 | 142–142 | 11/20/2013 | — | 145.80 | — | — | 271.13 | — | — | — | — | 18,796.70 | — | — | — | — |
| 4463 | MD50-14-45832 | 50-603468 | 403–403 | 11/20/2013 | — | 201.35 | — | — | 291.46 | — | — | — | — | 22,019.00 | — | — | — | — |
| 4463 | MD50-14-45833 | 50-613184 | 500–500 | 11/19/2013 | — | — | — | — | 65.75 | — | — | — | — | 4403.80 | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] | Trimethylbenzene[1,3,5-] | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **145** | **665** | **na** | **136** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **14,100** | **na** | **40,900** |
| 4463 | MD50-14-45834 | 50-613184 | 600–600 | 11/19/2013 | — | — | — | — | — | — | — | — | — | 751.87 | — | — | — | — |
| 4463 | MD50-14-45835 | 50-613184 | 664.5–664.5 | 11/19/2013 | — | — | — | — | — | — | — | — | — | 134.26 | — | — | — | — |
| 4463 | MD50-14-45824 | 50-603467 | 143–143 | 11/18/2013 | — | 104.14 | — | — | 413.47 | — | — | — | — | 15,574.40 | — | — | — | — |
| 4463 | MD50-14-45827 | 50-603467 | 500–500 | 11/18/2013 | — | — | — | — | 271.13 | — | — | — | — | 9666.88 | — | — | — | — |
| 4463 | MD50-14-45825 | 50-603467 | 244–244 | 11/15/2013 | — | 347.15 | — | — | 745.60 | — | — | — | — | 24,167.20 | — | — | — | — |
| 4463 | MD50-14-45826 | 50-603467 | 360–360 | 11/15/2013 | — | — | — | — | 596.48 | — | — | — | — | 20,407.90 | — | — | — | — |
| 4463 | MD50-14-45828 | 50-603467 | 600–600 | 11/15/2013 | — | — | — | — | — | — | — | — | — | 1020.39 | — | — | — | — |
| 4463 | MD50-14-45862 | 50-603503 | 133–133 | 11/14/2013 | — | 30.90 | — | — | 406.69 | — | — | 99.57 | — | 2148.19 | — | — | — | — |
| 4463 | MD50-14-45863 | 50-603503 | 237–237 | 11/14/2013 | — | 118.03 | — | — | 542.26 | — | — | 68.93 | — | 4994.55 | — | — | — | — |
| 4463 | MD50-14-45864 | 50-603503 | 347–347 | 11/14/2013 | — | 48.60 | — | — | 366.02 | — | — | — | — | 3490.82 | — | — | — | — |
| 4463 | MD50-14-45865 | 50-603503 | 450–450 | 11/14/2013 | — | — | — | — | 244.02 | — | — | — | — | 2953.77 | — | — | — | — |
| 4463 | MD50-14-45815 | 50-603064 | 113–113 | 11/13/2013 | — | — | — | — | 562.59 | — | — | 10,722.40 | 2017.48 | 21,481.90 | — | — | — | — |
| 4463 | MD50-14-45816 | 50-603064 | 214–214 | 11/13/2013 | — | 416.58 | — | — | 413.47 | — | — | 10,722.40 | 1526.74 | 25,241.30 | — | — | — | — |
| 4463 | MD50-14-45817 | 50-603064 | 332–332 | 11/12/2013 | — | 69.43 | — | — | 216.90 | — | — | 3829.44 | 190.84 | 13,426.20 | — | — | — | — |
| 4463 | MD50-14-45818 | 50-603064 | 500–500 | 11/12/2013 | — | — | — | — | — | — | — | 214.45 | — | 1611.15 | — | — | — | — |
| 4463 | MD50-14-45800 | 50-24822 | 25–25 | 11/08/2013 | — | — | — | — | 183.01 | — | — | — | — | 8055.73 | — | — | — | — |
| 4463 | MD50-14-45796 | 50-24822 | 142–142 | 11/07/2013 | — | — | — | — | 244.02 | — | — | 145.52 | — | 29,000.60 | — | — | — | — |
| 4463 | MD50-14-45798 | 50-24822 | 351–351 | 11/07/2013 | — | 111.09 | — | — | 115.23 | — | — | 76.59 | — | 24,704.20 | — | — | — | — |
| 4463 | MD50-14-45799 | 50-24822 | 450–450 | 11/07/2013 | — | — | — | — | — | — | — | — | — | 11,815.10 | — | — | — | — |
| 4463 | MD50-14-45806 | 50-603062 | 122–122 | 11/06/2013 | — | — | — | — | — | — | — | 474.85 | 53.98 | 7518.68 | — | — | — | — |
| 4463 | MD50-14-45807 | 50-603062 | 217–217 | 11/06/2013 | — | — | — | — | — | — | — | 620.37 | 51.25 | 9129.83 | — | — | — | — |
| 4463 | MD50-14-45808 | 50-603062 | 450–450 | 11/06/2013 | — | — | — | — | — | — | — | — | — | 698.16 | — | — | — | — |
| 4463 | MD50-14-45809 | 50-603062 | 337–337 | 11/06/2013 | — | — | — | — | — | — | — | 137.86 | — | 2040.79 | — | — | — | — |
| 4152 | MD50-13-28951 | 50-603063 | 25–25 | 04/11/2013 | — | — | — | — | 338.91 | — | — | 2374.25 | 299.90 | 1503.74 | — | — | — | — |
| 4152 | MD50-13-28952 | 50-603063 | 128–128 | 04/11/2013 | — | — | — | — | 948.95 | — | — | 4595.33 | 763.37 | 9666.88 | — | — | — | — |
| 4152 | MD50-13-28953 | 50-603063 | 228–228 | 04/11/2013 | — | — | — | — | 1491.20 | — | — | 4748.51 | 654.32 | 22,556.00 | 56.15 | — | — | — |
| 4152 | MD50-13-28954 | 50-603063 | 347–347 | 04/11/2013 | — | 55.54 | — | — | 671.04 | — | — | 1302.01 | 59.98 | 13,426.20 | — | — | — | — |
| 4152 | MD50-13-28955 | 50-603063 | 450–450 | 04/11/2013 | — | — | — | — | 372.80 | — | — | 137.86 | — | 8592.78 | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] | Trimethylbenzene[1,3,5-] | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **145** | **665** | **na** | **136** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **14,100** | **na** | **40,900** |
| 4152 | MD50-13-28942 | 50-603061 | 25–25 | 04/10/2013 | — | — | — | — | 115.23 | — | — | 12,254.20 | 1581.27 | 537.05 | — | — | — | — |
| 4152 | MD50-13-28943 | 50-603061 | 128–128 | 04/09/2013 | — | 34.71 | — | — | 311.80 | — | — | 24,508.40 | 5125.49 | 2846.36 | — | — | — | — |
| 4152 | MD50-13-28944 | 50-603061 | 228–228 | 04/09/2013 | — | 55.54 | — | — | 230.46 | — | — | 17,615.40 | 3380.64 | 3598.23 | — | — | — | — |
| 4152 | MD50-13-28945 | 50-603061 | 347–347 | 04/09/2013 | — | — | — | — | 88.12 | — | — | 6050.52 | 398.04 | 1288.92 | — | — | — | — |
| 4152 | MD50-13-28946 | 50-603061 | 450–450 | 04/09/2013 | — | — | — | — | — | — | — | 1148.83 | — | 451.12 | — | — | — | — |
| 4152 | MD50-13-28960 | 50-603383 | 26–26 | 04/08/2013 | — | — | — | — | 948.95 | — | — | 1072.24 | 196.30 | 3061.18 | — | — | — | — |
| 4152 | MD50-13-28961 | 50-603383 | 139–139 | 04/05/2013 | — | 38.19 | — | — | 1220.08 | — | — | 1148.83 | 207.20 | 4779.73 | — | — | — | — |
| 4152 | MD50-13-28962 | 50-603383 | 244–244 | 04/05/2013 | — | 55.54 | — | — | 1220.08 | — | — | 696.96 | 158.13 | 5370.49 | — | — | — | — |
| 4152 | MD50-13-28963 | 50-603383 | 359–359 | 04/05/2013 | — | — | — | — | 271.13 | — | — | 229.77 | — | 1557.44 | — | — | — | — |
| 4152 | MD50-13-28964 | 50-603383 | 450–450 | 04/05/2013 | — | — | — | — | 271.13 | 29.47 | — | 153.18 | — | 1396.33 | — | — | — | — |
| 4152 | MD50-13-28927 | 50-24784 | 155–155 | 04/04/2013 | — | — | — | — | 2169.02 | — | — | 122.54 | 50.71 | 3437.11 | — | — | — | — |
| 4152 | MD50-13-28928 | 50-24784 | 244–244 | 04/04/2013 | — | — | — | — | 1626.77 | — | — | 75.06 | — | 3114.88 | — | — | — | — |
| 4152 | MD50-13-28929 | 50-24784 | 362–362 | 04/04/2013 | — | — | — | — | 1287.86 | — | — | — | — | 2631.54 | — | — | — | — |
| 4152 | MD50-13-28930 | 50-24784 | 450–450 | 04/04/2013 | — | — | — | — | 494.81 | — | — | — | — | 1020.39 | — | — | — | — |
| 4152 | MD50-13-28991 | 50-603472 | 27–27 | 04/03/2013 | — | — | — | — | 52.87 | — | 86.62 | — | — | 263.15 | — | — | — | — |
| 4152 | MD50-13-28996 | 50-613182 | 550–550 | 04/02/2013 | — | — | — | — | 169.46 | — | — | — | — | 3114.88 | — | — | — | — |
| 4152 | MD50-13-28997 | 50-613182 | 632.5–632.5 | 04/02/2013 | — | — | — | — | — | — | — | — | — | 13.96 | — | — | — | — |
| 4152 | MD50-13-28992 | 50-603472 | 146–146 | 04/01/2013 | — | 381.86 | — | — | 881.17 | — | — | 114.88 | — | 13,426.20 | — | — | — | — |
| 4152 | MD50-13-28993 | 50-603472 | 292–292 | 04/01/2013 | — | 729.01 | — | — | 1491.20 | — | — | 99.57 | — | 27,389.50 | — | — | — | — |
| 4152 | MD50-13-28994 | 50-603472 | 364–364 | 04/01/2013 | — | 215.23 | — | — | 881.17 | — | — | — | — | 16,648.50 | — | — | — | — |
| 4152 | MD50-13-28995 | 50-603472 | 450–450 | 04/01/2013 | — | 83.32 | — | — | 623.60 | — | — | — | — | 12,352.10 | — | — | — | — |
| 4152 | MD50-13-28984 | 50-603471 | 90–90 | 03/29/2013 | — | 222.17 | — | — | 948.95 | — | — | 260.40 | 52.89 | 18,259.70 | — | — | — | — |
| 4152 | MD50-13-28989 | 50-613183 | 550–550 | 03/28/2013 | — | — | — | — | 81.34 | — | — | — | — | 3813.05 | — | — | — | — |
| 4152 | MD50-13-28990 | 50-613183 | 642.5–642.5 | 03/28/2013 | — | — | 39.32 | — | — | — | — | — | — | 80.56 | — | — | — | — |
| 4152 | MD50-13-28985 | 50-603471 | 209–209 | 03/27/2013 | — | 1041.44 | — | — | 1084.51 | — | — | 291.04 | — | 41,889.80 | — | — | — | — |
| 4152 | MD50-13-28986 | 50-603471 | 288–288 | 03/27/2013 | — | 1805.16 | — | — | 1287.86 | — | — | 474.85 | — | 64,445.80 | — | — | — | — |
| 4152 | MD50-13-28987 | 50-603471 | 360–360 | 03/27/2013 | — | 833.15 | — | — | 1016.73 | — | — | 306.36 | — | 49,408.50 | — | — | — | — |
| 4152 | MD50-13-28988 | 50-603471 | 450–450 | 03/27/2013 | — | 302.02 | — | — | 745.60 | — | — | 107.22 | — | 34,908.20 | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] | Trimethylbenzene[1,3,5-] | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **145** | **665** | **na** | **136** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **14,100** | **na** | **40,900** |
| 4152 | MD50-13-28977 | 50-603470 | 83–83 | 03/25/2013 | — | 45.13 | — | — | 813.38 | — | — | 268.06 | 65.43 | 15,574.40 | — | — | — | — |
| 4152 | MD50-13-28978 | 50-603470 | 203–203 | 03/25/2013 | — | 486.01 | — | — | 542.26 | — | — | 735.25 | 98.15 | 42,426.90 | — | — | — | — |
| 4152 | MD50-13-28979 | 50-603470 | 278–278 | 03/25/2013 | — | 798.44 | — | — | 542.26 | — | — | 842.48 | — | 59,075.40 | — | — | — | — |
| 4152 | MD50-13-28980 | 50-603470 | 351–351 | 03/22/2013 | — | 326.32 | — | — | 311.80 | — | — | 536.12 | — | 37,056.40 | 48.85 | — | — | — |
| 4152 | MD50-13-28981 | 50-603470 | 450–450 | 03/22/2013 | — | 69.43 | — | — | 115.23 | — | — | 137.86 | — | 15,574.40 | — | — | — | — |
| 4152 | MD50-13-28982 | 50-603470 | 600–600 | 03/22/2013 | — | — | — | — | - | — | — | — | — | 1825.97 | — | — | — | — |
| 4152 | MD50-13-28983 | 50-603470 | 650–650 | 03/22/2013 | — | — | — | — | — | — | — | — | — | 50.48 | — | — | — | — |
| 4152 | MD50-13-28931 | 50-24813 | 25–25 | 03/20/2013 | — | — | — | — | 440.58 | — | — | — | — | 12,889.20 | — | — | — | — |
| 4152 | MD50-13-28932 | 50-24813 | 150–150 | 03/20/2013 | — | 520.72 | — | — | 677.82 | — | — | — | — | 44,038.00 | — | — | — | — |
| 4152 | MD50-13-28933 | 50-24813 | 241–241 | 03/19/2013 | — | 1076.15 | — | — | 1016.73 | — | — | — | — | 85,927.80 | — | — | — | — |
| 4152 | MD50-13-28934 | 50-24813 | 358–358 | 03/19/2013 | — | 69.43 | — | — | 542.26 | — | — | — | — | 52,093.70 | — | — | — | — |
| 4152 | MD50-13-28935 | 50-24813 | 450–450 | 03/19/2013 | — | 149.27 | — | — | 277.91 | — | — | — | — | 27,926.50 | — | — | — | — |
| 4152 | MD50-13-28936 | 50-24813 | 600–600 | 03/19/2013 | — | — | — | — | — | — | — | — | — | 3276.00 | — | — | — | — |
| 4152 | MD50-13-29002 | 50-613185 | 145–145 | 03/18/2013 | — | 31.94 | — | — | 88.12 | — | — | — | — | 4618.62 | — | — | — | — |
| 4152 | MD50-13-29003 | 50-613185 | 235–235 | 03/18/2013 | — | 69.43 | — | — | 142.34 | — | — | — | — | 8055.73 | — | — | — | — |
| 4152 | MD50-13-29004 | 50-613185 | 350–350 | 03/18/2013 | — | — | — | — | 74.56 | — | — | — | — | 3974.16 | — | — | — | — |
| 4152 | MD50-13-29005 | 50-613185 | 450–450 | 03/18/2013 | — | — | — | — | — | — | — | — | — | 1772.26 | — | — | — | — |
| 4152 | MD50-13-29006 | 50-613185 | 600–600 | 03/18/2013 | — | — | — | — | — | — | — | — | — | 145.00 | — | — | — | — |
| 4152 | MD50-13-28970 | 50-603468 | 142–142 | 03/15/2013 | — | 76.37 | — | — | 162.68 | — | — | — | — | 8592.78 | — | — | — | — |
| 4152 | MD50-13-28971 | 50-603468 | 233–233 | 03/15/2013 | — | 486.01 | — | — | 338.91 | — | — | — | — | 23,630.10 | — | — | — | — |
| 4152 | MD50-13-28972 | 50-603468 | 354–354 | 03/15/2013 | — | 326.32 | — | — | 393.14 | — | — | — | — | 27,926.50 | — | — | — | — |
| 4152 | MD50-13-28973 | 50-603468 | 403–403 | 03/15/2013 | — | 229.12 | — | — | 332.13 | — | — | — | — | 23,630.10 | — | — | — | — |
| 4152 | MD50-13-28974 | 50-613184 | 500–500 | 03/14/2013 | — | — | — | — | 65.07 | — | — | — | — | 4135.27 | — | — | — | — |
| 4152 | MD50-13-28975 | 50-613184 | 600–600 | 03/14/2013 | — | — | — | — | — | — | — | — | — | 751.87 | — | — | — | — |
| 4152 | MD50-13-28976 | 50-613184 | 664.5–664.5 | 03/14/2013 | — | — | — | — | — | — | — | — | — | 80.56 | — | — | — | — |
| 4152 | MD50-13-28965 | 50-603467 | 143–143 | 03/13/2013 | — | 135.39 | — | — | 372.80 | 32.42 | — | — | — | 12,889.20 | — | — | — | — |
| 4152 | MD50-13-28966 | 50-603467 | 244–244 | 03/12/2013 | — | 555.43 | — | — | 813.38 | — | — | — | — | 27,926.50 | — | 225.98 | 58.95 | — |
| 4152 | MD50-13-28967 | 50-603467 | 360–360 | 03/12/2013 | — | 76.37 | — | — | 677.82 | — | — | — | — | 24,167.20 | — | — | — | — |

**Table 5.2-5 (continued)**

| Sampling Plan 2013 | Field Sample ID | Location ID | Depth (ft) | Date | Hexanone[2-] | Methylene Chloride | n-Heptane | Propanol[2-] | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Trimethylbenzene[1,2,4-] | Trimethylbenzene[1,3,5-] | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **145** | **665** | **na** | **136** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **14,100** | **na** | **40,900** |
| 4152 | MD50-13-28968 | 50-603467 | 500–500 | 03/12/2013 | — | 31.24 | — | — | 216.90 | — | — | — | — | 8055.73 | — | 46.18 | — | — |
| 4152 | MD50-13-28969 | 50-603467 | 600–600 | 03/12/2013 | 695.98 | — | — | — | 122.01 | 112.00 | — | — | — | 3974.16 | — | — | — | — |
| 4152 | MD50-13-28998 | 50-603503 | 133–133 | 03/11/2013 | — | 41.66 | — | — | 393.14 | — | — | 91.91 | — | 2416.72 | — | — | — | — |
| 4152 | MD50-13-28999 | 50-603503 | 237–237 | 03/11/2013 | — | 124.97 | — | — | 582.93 | — | — | 69.70 | — | 5370.49 | — | — | — | — |
| 4152 | MD50-13-29000 | 50-603503 | 347–347 | 03/11/2013 | — | 45.13 | — | — | 325.35 | — | — | — | — | 3222.29 | — | — | — | — |
| 4152 | MD50-13-29001 | 50-603503 | 450–450 | 03/11/2013 | — | — | — | — | 250.79 | — | — | — | — | 3114.88 | — | — | — | — |
| 4152 | MD50-13-28937 | 50-24822 | 25–25 | 03/08/2013 | — | — | — | — | 183.01 | — | — | 65.10 | — | 7518.68 | — | — | — | — |
| 4152 | MD50-13-28938 | 50-24822 | 142–142 | 03/07/2013 | — | 173.57 | — | — | 176.23 | — | — | 137.86 | — | 23,093.10 | — | — | — | — |
| 4152 | MD50-13-28939 | 50-24822 | 235–235 | 03/07/2013 | — | 347.15 | — | — | 210.12 | — | — | 191.47 | — | 36,519.30 | — | — | — | — |
| 4152 | MD50-13-28940 | 50-24822 | 351–351 | 03/07/2013 | — | 128.44 | — | — | 101.67 | — | — | 68.93 | — | 22,019.00 | — | — | — | — |
| 4152 | MD50-13-28941 | 50-24822 | 450–450 | 03/07/2013 | — | 34.71 | — | — | — | — | — | — | — | 10,741.00 | — | — | — | — |
| 4152 | MD50-13-28956 | 50-603064 | 113–113 | 03/06/2013 | — | 124.97 | — | — | 643.93 | — | — | 11,488.30 | 2889.90 | 29,537.70 | — | — | — | — |
| 4152 | MD50-13-28957 | 50-603064 | 214–214 | 03/06/2013 | — | 520.72 | — | — | 637.15 | — | — | 13,786.00 | 2617.27 | 40,815.70 | 67.38 | — | — | — |
| 4152 | MD50-13-28958 | 50-603064 | 332–332 | 03/06/2013 | — | 76.37 | — | — | 189.79 | — | — | 3523.09 | 201.75 | 13,426.20 | 49.97 | — | — | — |
| 4152 | MD50-13-28959 | 50-603064 | 500–500 | 03/06/2013 | — | — | — | — | — | — | — | 168.50 | — | 1664.85 | — | — | — | — |
| 4152 | MD50-13-28947 | 50-603062 | 122–122 | 03/05/2013 | — | — | — | — | — | — | — | 428.90 | 54.53 | 6981.63 | — | — | — | — |
| 4152 | MD50-13-28948 | 50-603062 | 217–217 | 03/05/2013 | — | — | — | — | — | — | — | 543.78 | 59.98 | 8592.78 | — | — | — | — |
| 4152 | MD50-13-28949 | 50-603062 | 337–337 | 03/05/2013 | — | — | — | — | — | — | — | 122.54 | — | 2040.79 | — | — | — | — |
| 4152 | MD50-13-28950 | 50-603062 | 450–450 | 03/05/2013 | — | — | — | — | — | — | — | — | — | 698.16 | — | — | — | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] — = Not detected.

**Table 5.2-6**
**VOC Pore-Gas Results at MDA C for FY 2012**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Benzene | Butadiene[1,3-] | Butanol[1-] | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **1140** | **546** | **na**[a] | **5650** | **173,000,000** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 4028 | MD50-13-24157 | 50-603383 | 26–26 | 11/16/2012 | —[b] | — | — | — | — | — | — | 163.09 | — | — | — | — | — | — |
| 4028 | MD50-13-24153 | 50-603383 | 139–139 | 11/15/2012 | — | — | — | 169.76 | — | 156.15 | — | 380.54 | — | — | 67.36 | - | 249.39 | — |
| 4028 | MD50-13-24154 | 50-603383 | 244–244 | 11/15/2012 | — | — | — | 289.21 | — | 126.87 | — | 321.24 | — | — | 59.44 | 47.55 | 309.43 | — |
| 4028 | MD50-13-24155 | 50-603383 | 359–359 | 11/15/2012 | — | — | — | 138.32 | — | — | — | 192.74 | — | — | — | — | — | — |
| 4028 | MD50-13-24156 | 50-603383 | 450–450 | 11/15/2012 | — | — | — | 207.48 | — | — | — | 222.39 | — | — | — | — | — | — |
| 4028 | MD50-13-24060 | 50-603063 | 25–25 | 11/14/2012 | — | — | — | — | — | — | — | 197.68 | — | — | — | — | — | — |
| 4028 | MD50-13-24056 | 50-603063 | 128–128 | 11/13/2012 | — | — | — | 125.75 | — | 229.34 | — | 385.48 | 56.63 | — | 213.97 | — | — | — |
| 4028 | MD50-13-24057 | 50-603063 | 228–228 | 11/13/2012 | — | — | — | 364.66 | — | 487.95 | — | 691.89 | — | — | 348.69 | 126.80 | — | — |
| 4028 | MD50-13-24058 | 50-603063 | 347–347 | 11/13/2012 | — | — | — | 213.77 | — | 195.18 | — | 380.54 | — | — | — | — | — | — |
| 4028 | MD50-13-24059 | 50-603063 | 450–450 | 11/13/2012 | — | — | — | 169.76 | — | 131.75 | — | 266.87 | — | — | — | — | — | — |
| 4028 | MD50-13-24051 | 50-603061 | 25–25 | 11/09/2012 | — | — | — | — | — | — | — | 741.31 | — | — | 245.66 | — | — | — |
| 4028 | MD50-13-24047 | 50-603061 | 128–128 | 11/08/2012 | — | — | — | — | — | — | — | 464.56 | — | — | 1703.80 | — | — | — |
| 4028 | MD50-13-24048 | 50-603061 | 228–228 | 11/08/2012 | — | — | — | — | — | — | — | 316.29 | — | — | 1267.95 | — | — | — |
| 4028 | MD50-13-24049 | 50-603061 | 347–347 | 11/08/2012 | — | — | — | 88.02 | — | — | — | 252.05 | — | — | 221.89 | — | — | — |
| 4028 | MD50-13-24050 | 50-603061 | 450–450 | 11/08/2012 | — | — | — | — | — | — | — | 158.15 | — | — | 59.44 | — | — | — |
| 4028 | MD50-13-24032 | 50-24784 | 155–155 | 11/06/2012 | — | — | — | 182.33 | — | 292.78 | — | 138.38 | — | — | — | — | 69.28 | — |
| 4028 | MD50-13-24033 | 50-24784 | 244–244 | 11/06/2012 | — | — | — | 270.35 | — | 107.35 | — | 177.92 | — | — | — | — | — | — |
| 4028 | MD50-13-24034 | 50-24784 | 362–362 | 11/06/2012 | — | — | — | 377.24 | — | — | — | 242.16 | — | — | — | — | — | — |
| 4028 | MD50-13-24035 | 50-24784 | 450–450 | 11/06/2012 | — | — | — | 245.21 | — | — | — | 207.57 | — | — | — | — | — | — |
| 4028 | MD50-13-24089 | 50-613182 | 550–550 | 11/06/2012 | — | — | — | 157.18 | — | — | — | 281.70 | — | — | — | — | — | — |
| 4028 | MD50-13-24090 | 50-613182 | 632.5–632.5 | 11/06/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4028 | MD50-13-24143 | 50-603472 | 27–27 | 11/02/2012 | — | — | — | — | — | 263.50 | — | 49.42 | — | — | — | — | — | — |
| 4028 | MD50-13-24144 | 50-603472 | 146–146 | 11/02/2012 | — | — | — | 213.77 | — | 585.55 | — | 187.80 | — | — | — | 122.83 | 106.22 | — |
| 4028 | MD50-13-24145 | 50-603472 | 364–364 | 11/02/2012 | — | — | — | 345.80 | — | 156.15 | — | 454.67 | — | — | — | — | — | — |
| 4028 | MD50-13-24146 | 50-603472 | 450–450 | 11/02/2012 | — | — | — | 308.08 | — | — | — | 380.54 | — | — | — | — | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Benzene | Butadiene[1,3-] | Butanol[1-] | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **1140** | **546** | **na[a]** | **5650** | **173,000,000** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 4028 | MD50-13-24147 | 50-603472 | 292–292 | 11/02/2012 | — | — | — | 471.54 | — | 585.55 | — | 464.56 | — | — | — | 174.34 | — | — |
| 4028 | MD50-13-24086 | 50-603471 | 450–450 | 10/31/2012 | — | — | — | 616.15 | — | 444.04 | — | 642.47 | — | — | — | 146.61 | — | — |
| 4028 | MD50-13-24087 | 50-613183 | 550–550 | 10/31/2012 | — | — | — | 163.47 | — | — | — | 434.90 | — | — | — | — | — | — |
| 4028 | MD50-13-24088 | 50-613183 | 642.5–642.5 | 10/31/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4028 | MD50-13-24082 | 50-603471 | 90–90 | 10/30/2012 | — | — | — | 1634.68 | — | 1854.23 | — | 405.25 | — | 133.48 | — | 241.70 | — | — |
| 4028 | MD50-13-24083 | 50-603471 | 209–209 | 10/30/2012 | — | — | — | 628.73 | — | 1463.86 | — | 385.48 | — | — | — | 328.87 | — | — |
| 4028 | MD50-13-24084 | 50-603471 | 288–288 | 10/30/2012 | — | — | — | 1068.83 | — | 1366.27 | — | 1037.84 | — | — | — | 396.23 | — | — |
| 4028 | MD50-13-24085 | 50-603471 | 360–360 | 10/30/2012 | — | — | — | 754.47 | — | 634.34 | — | 1037.84 | — | — | — | — | — | — |
| 4028 | MD50-13-24081 | 50-603470 | 450–450 | 10/29/2012 | — | — | — | 251.49 | — | — | — | 790.73 | — | — | — | — | — | — |
| 4028 | MD50-13-24077 | 50-603470 | 83–83 | 10/26/2012 | — | — | — | 546.99 | — | 1659.04 | — | 642.47 | — | — | — | 261.51 | — | — |
| 4028 | MD50-13-24078 | 50-603470 | 203–203 | 10/26/2012 | — | — | — | — | — | 1122.30 | — | 1136.68 | — | — | — | — | — | — |
| 4028 | MD50-13-24079 | 50-603470 | 278–278 | 10/26/2012 | — | — | — | — | — | 829.52 | — | 1235.52 | — | — | — | — | — | — |
| 4028 | MD50-13-24080 | 50-603470 | 351–351 | 10/26/2012 | — | — | — | — | — | — | — | 741.31 | — | — | — | — | — | — |
| 4028 | MD50-13-24075 | 50-603470 | 600–600 | 10/25/2012 | — | — | — | — | — | — | — | 296.53 | — | — | — | — | — | — |
| 4028 | MD50-13-24076 | 50-603470 | 650–650 | 10/25/2012 | — | — | — | — | — | — | — | 69.19 | — | — | — | — | — | — |
| 4028 | MD50-13-24036 | 50-24813 | 358–358 | 10/23/2012 | — | — | — | 396.10 | — | 283.01 | — | 741.31 | — | — | — | — | — | — |
| 4028 | MD50-13-24037 | 50-24813 | 450–450 | 10/23/2012 | — | — | — | 446.39 | — | — | — | 889.58 | — | — | — | — | — | — |
| 4028 | MD50-13-24038 | 50-24813 | 25–25 | 10/23/2012 | — | — | — | 1257.45 | — | 1122.30 | — | 385.48 | — | — | — | — | — | — |
| 4028 | MD50-13-24039 | 50-24813 | 600–600 | 10/23/2012 | — | — | — | 132.03 | — | — | — | 385.48 | — | — | — | — | — | — |
| 4028 | MD50-13-24040 | 50-24813 | 150–150 | 10/23/2012 | — | — | — | 1005.96 | — | 1659.04 | — | 593.05 | — | — | — | 324.91 | — | — |
| 4028 | MD50-13-24041 | 50-24813 | 241–241 | 10/23/2012 | — | — | — | 1446.07 | — | 1805.43 | — | 1680.31 | — | — | — | 515.10 | — | — |
| 4028 | MD50-13-24095 | 50-613185 | 350–350 | 10/22/2012 | — | — | — | 113.17 | — | — | — | 192.74 | — | — | — | — | — | — |
| 4028 | MD50-13-24096 | 50-613185 | 450–450 | 10/22/2012 | — | — | — | 69.16 | — | — | — | 133.44 | — | — | — | — | — | — |
| 4028 | MD50-13-24097 | 50-613185 | 600–600 | 10/22/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4028 | MD50-13-24098 | 50-613185 | 235–235 | 10/22/2012 | — | — | — | 138.32 | — | 92.71 | — | 212.51 | — | — | — | — | — | — |
| 4028 | MD50-13-24099 | 50-613185 | 145–145 | 10/22/2012 | — | — | — | 94.31 | — | 107.35 | — | 148.26 | — | — | — | — | — | — |
| 4028 | MD50-13-24158 | 50-603468 | 233–233 | 10/19/2012 | — | — | — | 572.14 | — | 585.55 | — | 691.89 | — | — | — | 210.00 | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Benzene | Butadiene[1,3-] | Butanol[1-] | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **1140** | **546** | **na[a]** | **5650** | **173,000,000** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 4028 | MD50-13-24159 | 50-603468 | 142–142 | 10/19/2012 | — | — | — | 364.66 | — | 478.20 | — | 425.02 | — | — | — | 150.57 | — | — |
| 4028 | MD50-13-24160 | 50-603468 | 354–354 | 10/19/2012 | — | — | — | 377.24 | — | 248.86 | — | 543.63 | — | — | — | 95.10 | — | — |
| 4028 | MD50-13-24161 | 50-603468 | 403–403 | 10/19/2012 | — | — | — | 440.11 | — | 204.94 | — | 691.89 | — | — | — | — | — | — |
| 4028 | MD50-13-24072 | 50-613184 | 664.5–664.5 | 10/18/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4028 | MD50-13-24073 | 50-613184 | 600–600 | 10/18/2012 | — | — | — | — | — | — | — | 138.38 | — | — | — | — | — | — |
| 4028 | MD50-13-24074 | 50-613184 | 500–500 | 10/18/2012 | — | — | — | 138.32 | — | — | — | 296.53 | — | — | — | — | — | — |
| 4028 | MD50-13-24091 | 50-603503 | 450–450 | 10/17/2012 | — | — | — | 88.02 | — | — | — | 98.84 | — | — | — | — | — | — |
| 4028 | MD50-13-24092 | 50-603503 | 347–347 | 10/17/2012 | — | — | — | 75.45 | — | 53.68 | — | 88.96 | — | — | — | — | — | — |
| 4028 | MD50-13-24093 | 50-603503 | 237–237 | 10/17/2012 | — | — | — | 106.88 | — | 126.87 | — | 98.84 | — | — | — | — | — | — |
| 4028 | MD50-13-24094 | 50-603503 | 133–133 | 10/17/2012 | — | — | — | 56.59 | — | 102.47 | — | 74.13 | — | — | — | — | — | — |
| 4028 | MD50-13-24046 | 50-24822 | 142–142 | 10/16/2012 | — | — | — | 226.34 | — | 585.55 | — | 741.31 | — | — | — | 134.72 | — | — |
| 4028 | MD50-13-24070 | 50-603467 | 244–244 | 10/16/2012 | — | — | — | 628.73 | — | 731.93 | — | 489.27 | — | — | — | 202.08 | — | — |
| 4028 | MD50-13-24066 | 50-603467 | 143–143 | 10/15/2012 | — | — | — | 345.80 | — | 487.95 | — | 207.57 | — | — | — | 95.10 | — | — |
| 4028 | MD50-13-24067 | 50-603467 | 600–600 | 10/15/2012 | — | — | — | 125.75 | — | — | — | 168.03 | — | — | — | — | — | — |
| 4028 | MD50-13-24068 | 50-603467 | 360–360 | 10/15/2012 | — | — | — | 534.42 | — | 400.12 | — | 410.19 | — | — | — | — | — | — |
| 4028 | MD50-13-24069 | 50-603467 | 500–500 | 10/15/2012 | — | — | — | 213.77 | — | — | — | 256.99 | — | — | — | — | — | — |
| 4028 | MD50-13-24042 | 50-24822 | 25–25 | 10/11/2012 | — | — | — | 75.45 | — | 273.25 | — | 222.39 | — | — | — | — | — | — |
| 4028 | MD50-13-24043 | 50-24822 | 450–450 | 10/11/2012 | — | — | — | 144.61 | — | — | — | 454.67 | — | — | — | — | — | — |
| 4028 | MD50-13-24044 | 50-24822 | 235–235 | 10/11/2012 | — | — | — | 295.50 | — | 585.55 | — | 1087.26 | — | — | — | 158.49 | — | — |
| 4028 | MD50-13-24045 | 50-24822 | 351–351 | 10/11/2012 | — | — | — | 125.75 | — | 82.95 | — | 439.85 | — | — | — | — | — | — |
| 4028 | MD50-13-24052 | 50-603062 | 122–122 | 10/10/2012 | — | — | — | — | — | 68.31 | — | 222.39 | — | — | — | — | — | — |
| 4028 | MD50-13-24053 | 50-603062 | 217–217 | 10/10/2012 | — | — | — | — | — | — | — | 281.70 | — | — | — | — | — | — |
| 4028 | MD50-13-24054 | 50-603062 | 337–337 | 10/10/2012 | — | — | — | — | — | — | — | 177.92 | — | — | — | — | — | — |
| 4028 | MD50-13-24055 | 50-603062 | 450–450 | 10/10/2012 | — | — | — | — | — | — | — | 113.67 | — | — | — | — | — | — |
| 4028 | MD50-13-24061 | 50-603064 | 113–113 | 10/09/2012 | — | — | — | — | — | 927.11 | — | 593.05 | — | — | 673.60 | 269.44 | — | — |
| 4028 | MD50-13-24062 | 50-603064 | 214–214 | 10/09/2012 | — | — | — | — | — | 487.95 | — | 840.15 | — | — | 633.97 | 202.08 | — | — |
| 4028 | MD50-13-24063 | 50-603064 | 332–332 | 10/09/2012 | — | — | — | 182.33 | — | — | — | 593.05 | — | — | 142.64 | — | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Benzene | Butadiene[1,3-] | Butanol[1-] | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **1140** | **546** | **na[a]** | **5650** | **173,000,000** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 4028 | MD50-13-24064 | 50-603064 | 500–500 | 10/09/2012 | — | — | — | — | — | — | — | 281.70 | — | — | — | — | — | — |
| 3799 | MD50-12-12093 | 50-603064 | 500.0–500.0 | 04/12/2012 | — | — | — | — | — | — | — | 266.88 | — | — | — | — | — | — |
| 3799 | MD50-12-12094 | 50-603064 | 332.0–332.0 | 04/12/2012 | — | — | — | 176.04 | — | 58.56 | — | 642.48 | — | — | 146.61 | — | — | — |
| 3799 | MD50-12-12095 | 50-603064 | 214.0–214.0 | 04/12/2012 | — | — | — | 289.22 | — | 585.55 | — | 988.43 | — | — | 673.60 | 225.86 | — | — |
| 3799 | MD50-12-12096 | 50-603064 | 113.0–113.0 | 04/12/2012 | — | — | — | 150.90 | — | 780.73 | — | 543.63 | — | — | 554.73 | 213.97 | 46.18 | — |
| 3799 | MD50-12-12101 | 50-603383 | 26.0–26.0 | 04/06/2012 | — | — | — | — | — | — | — | 108.73 | — | — | — | — | — | — |
| 3799 | MD50-12-12097 | 50-603383 | 139.0–139.0 | 04/05/2012 | — | — | — | 176.04 | — | 170.79 | — | 336.06 | — | — | 79.25 | 43.59 | 341.76 | — |
| 3799 | MD50-12-12098 | 50-603383 | 244.0–244.0 | 04/05/2012 | — | — | — | 264.07 | — | 121.99 | — | 291.59 | — | — | 47.55 | 51.51 | 351.00 | — |
| 3799 | MD50-12-12099 | 50-603383 | 359.0–359.0 | 04/05/2012 | — | — | — | 113.17 | — | — | — | 148.26 | — | — | — | — | — | — |
| 3799 | MD50-12-12100 | 50-603383 | 450.0–450.0 | 04/05/2012 | — | — | — | 213.77 | — | — | — | 232.28 | — | — | — | — | — | — |
| 3799 | MD50-12-12088 | 50-603063 | 25.0–25.0 | 04/04/2012 | — | — | 245.40 | — | — | — | — | 256.99 | — | — | — | — | — | — |
| 3799 | MD50-12-12092 | 50-603063 | 450.0–450.0 | 04/04/2012 | — | — | — | 194.91 | — | 156.15 | — | 306.41 | — | — | — | — | — | — |
| 3799 | MD50-12-12089 | 50-603063 | 128.0–128.0 | 04/03/2012 | — | — | — | 176.04 | 261.55 | 331.81 | — | 593.06 | 84.94 | — | 320.95 | 47.55 | — | — |
| 3799 | MD50-12-12090 | 50-603063 | 228.0–228.0 | 04/03/2012 | — | — | — | 408.68 | 353.44 | 585.55 | — | 840.16 | 48.54 | — | 372.46 | 150.57 | 45.26 | — |
| 3799 | MD50-12-12091 | 50-603063 | 347.0–347.0 | 04/03/2012 | — | — | — | 226.34 | — | 219.58 | — | 425.02 | — | — | 55.47 | 43.59 | — | — |
| 3799 | MD50-12-12128 | 50-603472 | 27.0–27.0 | 04/02/2012 | — | — | — | — | — | 312.29 | — | 69.19 | — | — | — | — | — | — |
| 3799 | MD50-12-12129 | 50-603472 | 146.0–146.0 | 04/02/2012 | — | — | — | 289.22 | — | 683.14 | — | 271.82 | — | 56.63 | — | 134.72 | 120.08 | — |
| 3799 | MD50-12-12130 | 50-603472 | 450.0–450.0 | 04/02/2012 | — | — | — | 352.09 | 141.38 | 68.31 | — | 464.56 | — | — | — | — | — | — |
| 3799 | MD50-12-12131 | 50-603472 | 364.0–364.0 | 04/02/2012 | — | — | — | 339.51 | 151.98 | 131.75 | — | 454.68 | — | — | — | 39.62 | — | — |
| 3799 | MD50-12-12132 | 50-603472 | 292.0–292.0 | 04/02/2012 | — | — | — | 452.69 | 194.39 | 536.75 | — | 459.62 | — | — | — | 146.61 | 50.80 | — |
| 3799 | MD50-12-12133 | 50-613182 | 550.0–550.0 | 04/02/2012 | — | — | — | 176.04 | — | — | — | 321.24 | — | — | — | — | — | — |
| 3799 | MD50-12-12134 | 50-613182 | 632.0–632.0 | 04/02/2012 | — | — | — | — | — | — | — | 6.92 | — | — | — | — | — | 9.04 (J)[c] |
| 3799 | MD50-12-12121 | 50-603471 | 450.0–450.0 | 03/30/2012 | — | — | — | 603.58 | — | 536.75 | — | 691.90 | — | — | — | 158.50 | - | — |
| 3799 | MD50-12-12122 | 50-603471 | 288.0–288.0 | 03/30/2012 | — | — | — | 1320.33 | — | 1854.24 | — | 1482.64 | — | — | — | 554.73 | - | — |
| 3799 | MD50-12-12123 | 50-603471 | 360.0–360.0 | 03/30/2012 | — | — | — | 817.35 | — | 780.73 | — | 1235.53 | — | — | — | 261.52 | - | — |
| 3799 | MD50-12-12124 | 50-603471 | 90.0–90.0 | 03/30/2012 | — | — | — | 1571.83 | — | 1903.04 | — | 469.50 | — | 149.66 | — | 245.67 | 101.61 | — |
| 3799 | MD50-12-12125 | 50-603471 | 209.0–209.0 | 03/30/2012 | — | — | — | 1068.84 | — | 2098.22 | — | 1235.53 | — | 137.53 | — | 554.73 | 110.84 | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Benzene | Butadiene[1,3-] | Butanol[1-] | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **1140** | **546** | **na[a]** | **5650** | **173,000,000** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 3799 | MD50-12-12126 | 50-613183 | 642.5–642.5 | 03/30/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 3799 | MD50-12-12127 | 50-613183 | 550.0–550.0 | 03/30/2012 | — | — | — | 176.04 | — | — | — | 479.39 | — | — | — | — | — | — |
| 3799 | MD50-12-12118 | 50-603470 | 351.0–351.0 | 03/29/2012 | — | — | — | 408.68 | — | 336.69 | — | 1284.95 | — | — | — | 130.76 | — | — |
| 3799 | MD50-12-12119 | 50-603470 | 278.0–278.0 | 03/29/2012 | — | — | — | 628.73 | — | 1073.51 | — | 1779.16 | — | — | — | 352.65 | — | — |
| 3799 | MD50-12-12120 | 50-603470 | 203.0–203.0 | 03/29/2012 | — | — | — | 370.95 | — | 1073.51 | — | 1087.27 | — | — | — | 293.22 | — | — |
| 3799 | MD50-12-12114 | 50-603470 | 83.0–83.0 | 03/28/2012 | — | — | — | 320.65 | — | 1171.10 | — | 425.02 | — | — | — | 186.23 | 45.26 | — |
| 3799 | MD50-12-12115 | 50-603470 | 450.0–450.0 | 03/28/2012 | — | — | — | 238.92 | — | 73.19 | — | 741.32 | — | — | — | — | — | — |
| 3799 | MD50-12-12116 | 50-603470 | 600.0–600.0 | 03/28/2012 | — | — | — | — | — | — | — | 355.83 | — | — | — | — | — | — |
| 3799 | MD50-12-12117 | 50-603470 | 650.0–650.0 | 03/28/2012 | — | — | — | — | — | — | — | 133.44 | — | — | — | — | — | — |
| 3799 | MD50-12-12068 | 50-24813 | 450.0–450.0 | 03/27/2012 | — | — | — | 427.54 | — | 121.99 | — | 889.58 | — | — | — | 47.55 | — | — |
| 3799 | MD50-12-12069 | 50-24813 | 600.0–600.0 | 03/27/2012 | — | — | — | 106.88 | — | — | — | 321.24 | — | — | — | — | — | — |
| 3799 | MD50-12-12064 | 50-24813 | 358.0–358.0 | 03/26/2012 | — | — | — | 817.35 | — | 585.55 | — | 1482.64 | — | — | — | 213.97 | — | — |
| 3799 | MD50-12-12065 | 50-24813 | 241.0–241.0 | 03/26/2012 | — | — | — | 1886.19 | — | 2293.41 | — | 2223.96 | — | — | — | 713.23 | — | — |
| 3799 | MD50-12-12066 | 50-24813 | 150.0–150.0 | 03/26/2012 | — | — | — | 1760.44 | — | 2732.57 | — | 988.43 | — | 97.08 | - | 554.73 | — | — |
| 3799 | MD50-12-12067 | 50-24813 | 25.0–25.0 | 03/26/2012 | — | — | — | 1320.33 | — | 1122.30 | — | 484.33 | — | — | — | 63.40 | — | — |
| 3799 | MD50-12-12060 | 50-24784 | 155.0–155.0 | 03/23/2012 | — | — | — | 188.62 | — | 287.90 | — | 143.32 | — | — | — | — | 64.66 | — |
| 3799 | MD50-12-12061 | 50-24784 | 244.0–244.0 | 03/23/2012 | — | — | — | 289.22 | — | 112.23 | — | 192.74 | — | — | — | — | — | — |
| 3799 | MD50-12-12062 | 50-24784 | 362.0–362.0 | 03/23/2012 | — | — | — | 370.95 | — | — | — | 266.88 | — | — | — | — | — | — |
| 3799 | MD50-12-12063 | 50-24784 | 450.0–450.0 | 03/23/2012 | — | — | — | 276.64 | — | — | — | 227.34 | — | — | — | — | — | — |
| 3799 | MD50-12-12079 | 50-603061 | 25–25 | 03/22/2012 | — | — | — | — | — | — | — | 840.16 | — | — | 324.91 | — | — | — |
| 3799 | MD50-12-12075 | 50-603061 | 450–450 | 03/21/2012 | — | — | — | — | — | — | — | 138.38 | — | — | — | — | — | — |
| 3799 | MD50-12-12076 | 50-603061 | 347–347 | 03/21/2012 | — | — | — | 80.02 | — | — | — | 256.99 | — | — | 245.67 | — | — | — |
| 3799 | MD50-12-12077 | 50-603061 | 228–228 | 03/21/2012 | — | — | — | — | — | — | — | 64.25 | — | — | 210.01 | — | — | — |
| 3799 | MD50-12-12078 | 50-603061 | 128–128 | 03/21/2012 | — | — | — | — | — | — | — | 425.02 | — | — | 1624.57 | — | — | — |
| 3799 | MD50-12-12087 | 50-603062 | 122–122 | 03/20/2012 | — | — | — | — | — | 73.19 | — | 237.22 | — | — | — | — | — | — |
| 3799 | MD50-12-12084 | 50-603062 | 450.0–450.0 | 03/19/2012 | — | — | — | — | — | — | — | 113.67 | — | — | — | — | — | — |
| 3799 | MD50-12-12085 | 50-603062 | 337.0–337.0 | 03/19/2012 | — | — | — | — | — | — | — | 187.80 | — | — | — | — | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Benzene | Butadiene[1,3-] | Butanol[1-] | Carbon Tetrachloride | Chlorodifluoromethane | Chloroform | Cyclohexane | Dichlorodifluoromethane | Dichloroethane[1,1-] | Dichloroethane[1,2-] | Dichloroethene[1,1-] | Dichloroethene[cis-1,2-] | Dichloropropane[1,2-] | Ethanol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **1140** | **546** | **na[a]** | **5650** | **173,000,000** | **12,000** | **79,300,000** | **2,780,000** | **5750** | **242** | **7490** | **11,700** | **580** | **na** |
| 3799 | MD50-12-12086 | 50-603062 | 217.0–217.0 | 03/19/2012 | — | — | — | 55.96 | — | 48.80 | — | 306.41 | — | — | — | — | — | — |
| 3799 | MD50-12-12102 | 50-603467 | 244.0–244.0 | 03/16/2012 | — | — | — | 458.97 | — | 356.21 | — | 400.31 | — | — | — | 103.02 | — | — |
| 3799 | MD50-12-12104 | 50-603467 | 500.0–500.0 | 03/16/2012 | — | — | — | 132.03 | — | 78.07 | — | 197.69 | — | — | — | — | — | — |
| 3799 | MD50-12-12106 | 50-603467 | 143.0–143.0 | 03/16/2012 | — | — | — | 440.11 | — | 683.14 | — | 291.59 | — | — | — | 130.76 | — | — |
| 3799 | MD50-12-12135 | 50-603503 | 237.0–237.0 | 03/15/2012 | — | — | — | 106.88 | — | 146.39 | — | 113.67 | — | — | — | — | 46.18 | — |
| 3799 | MD50-12-12136 | 50-603503 | 133.0–133.0 | 03/15/2012 | 181.98 | 46.43 | — | — | — | — | 61.92 | — | — | — | — | — | — | 527.26 |
| 3799 | MD50-12-12137 | 50-603503 | 347.0–347.0 | 03/15/2012 | — | — | — | 62.87 | — | 53.68 | — | 79.07 | — | — | — | — | — | — |
| 3799 | MD50-12-12138 | 50-603503 | 450.0–450.0 | 03/15/2012 | — | — | — | 88.02 | — | - | — | 98.84 | — | — | — | — | — | — |
| 3799 | MD50-12-12103 | 50-603467 | 360.0–360.0 | 03/14/2012 | — | — | — | 691.60 | — | 780.73 | — | 489.27 | — | — | — | 206.04 | — | — |
| 3799 | MD50-12-12105 | 50-603467 | 600.0–600.0 | 03/14/2012 | — | — | — | 138.32 | — | — | — | 187.80 | — | — | — | — | — | — |
| 3799 | MD50-12-12072 | 50-24822 | 235.0–235.0 | 03/13/2012 | — | — | — | 326.94 | — | 585.55 | — | 1186.11 | — | — | — | 154.53 | — | — |
| 3799 | MD50-12-12074 | 50-24822 | 25–25 | 03/13/2012 | — | — | — | 81.73 | — | 287.90 | — | 256.99 | — | — | — | — | — | — |
| 3799 | MD50-12-12070 | 50-24822 | 450.0–450.0 | 03/12/2012 | — | — | — | 150.90 | — | — | — | 494.21 | — | — | — | — | — | — |
| 3799 | MD50-12-12071 | 50-24822 | 351.0–351.0 | 03/12/2012 | — | — | — | 207.48 | — | 136.63 | — | 691.90 | — | — | — | 47.55 | — | — |
| 3799 | MD50-12-12073 | 50-24822 | 142.0–142.0 | 03/12/2012 | — | — | — | 226.34 | — | 585.55 | — | 691.90 | — | — | — | 114.91 | — | — |
| 3799 | MD50-12-12108 | 50-603468 | 142–142 | 03/09/2012 | — | — | — | 176.04 | — | 263.50 | — | 177.92 | — | — | — | 71.32 | — | — |
| 3799 | MD50-12-12109 | 50-603468 | 233–233 | 03/09/2012 | — | — | — | 477.84 | — | 585.55 | — | 543.63 | — | — | — | 198.12 | — | — |
| 3799 | MD50-12-12110 | 50-603468 | 354–354 | 03/09/2012 | — | — | — | 591.01 | — | 390.37 | — | 790.74 | — | — | — | 146.61 | — | — |
| 3799 | MD50-12-12107 | 50-603468 | 403–403 | 03/08/2012 | — | — | — | 515.56 | — | 239.10 | — | 741.32 | — | — | — | 95.10 | — | — |
| 3799 | MD50-12-12111 | 50-613184 | 664.5–664.5 | 03/08/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 3799 | MD50-12-12112 | 50-613184 | 600–600 | 03/08/2012 | — | — | — | — | — | — | — | 143.32 | — | — | — | — | — | — |
| 3799 | MD50-12-12113 | 50-613184 | 500–500 | 03/08/2012 | — | — | — | 138.32 | — | — | — | 291.59 | — | — | — | — | — | — |
| 3799 | MD50-12-12143 | 50-613185 | 145–145 | 03/07/2012 | — | — | — | 113.17 | — | 112.23 | — | 158.15 | — | — | — | — | — | — |
| 3799 | MD50-12-12139 | 50-613185 | 235–235 | 03/06/2012 | — | — | — | 163.47 | — | 107.35 | — | 222.40 | — | — | — | 39.23 | — | — |
| 3799 | MD50-12-12140 | 50-613185 | 350–350 | 03/06/2012 | — | — | — | 113.17 | — | — | — | 202.63 | — | — | — | — | — | — |
| 3799 | MD50-12-12141 | 50-613185 | 450–450 | 03/06/2012 | — | — | — | 69.16 | — | — | — | 138.38 | — | — | — | — | — | — |
| 3799 | MD50-12-12142 | 50-613185 | 600–600 | 03/06/2012 | — | — | — | — | — | — | — | 79.07 | — | — | — | — | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Ethylbenzene | Hexane | Hexanone [2-] | Methylene Chloride | n-Heptane | Propylene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **226,000** | **23,500,000** | **145** | **665** | **na** | **50,500,000** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **40,900** |
| 4028 | MD50-13-24157 | 50-603383 | 26–26 | 11/16/2012 | — | — | — | — | — | — | 332.13 | — | — | 375.28 | 70.88 | 751.86 | — | — |
| 4028 | MD50-13-24153 | 50-603383 | 139–139 | 11/15/2012 | — | — | — | 38.19 | — | — | 1152.28 | — | — | 1225.41 | 207.20 | 4296.35 | — | — |
| 4028 | MD50-13-24154 | 50-603383 | 244–244 | 11/15/2012 | — | — | — | 55.54 | — | — | 1220.07 | — | — | 758.22 | 163.58 | 5370.44 | — | — |
| 4028 | MD50-13-24155 | 50-603383 | 359–359 | 11/15/2012 | — | — | — | — | — | — | 257.57 | — | — | 275.72 | — | 1450.02 | — | — |
| 4028 | MD50-13-24156 | 50-603383 | 450–450 | 11/15/2012 | — | — | — | — | — | — | 257.57 | — | — | 84.25 | — | 1342.61 | — | — |
| 4028 | MD50-13-24060 | 50-603063 | 25–25 | 11/14/2012 | — | — | — | — | — | — | 345.69 | — | — | 2297.64 | 305.35 | 1396.31 | — | — |
| 4028 | MD50-13-24056 | 50-603063 | 128–128 | 11/13/2012 | — | — | — | — | — | — | 745.60 | — | — | 3676.23 | 599.79 | 6981.57 | — | — |
| 4028 | MD50-13-24057 | 50-603063 | 228–228 | 11/13/2012 | — | — | — | - | — | — | 1491.19 | — | — | 5131.41 | 654.31 | 22,555.9 | — | — |
| 4028 | MD50-13-24058 | 50-603063 | 347–347 | 11/13/2012 | — | — | — | 55.54 | — | — | 576.14 | — | — | 1148.82 | — | 11,277.9 | — | — |
| 4028 | MD50-13-24059 | 50-603063 | 450–450 | 11/13/2012 | — | — | — | — | — | — | 325.35 | — | — | 137.86 | — | 7518.62 | — | — |
| 4028 | MD50-13-24051 | 50-603061 | 25–25 | 11/09/2012 | — | — | — | — | — | — | 101.67 | — | — | 11,488.20 | 1526.73 | 461.86 | — | — |
| 4028 | MD50-13-24047 | 50-603061 | 128–128 | 11/08/2012 | — | — | — | — | — | — | 298.24 | — | — | 27,571.70 | 5179.97 | 2738.92 | — | — |
| 4028 | MD50-13-24048 | 50-603061 | 228–228 | 11/08/2012 | — | — | — | — | — | — | 210.12 | — | — | 19,147.00 | 3435.14 | 3437.08 | — | — |
| 4028 | MD50-13-24049 | 50-603061 | 347–347 | 11/08/2012 | — | — | — | — | — | — | 81.34 | — | — | 5820.70 | 403.49 | 1181.50 | — | — |
| 4028 | MD50-13-24050 | 50-603061 | 450–450 | 11/08/2012 | — | — | — | — | — | — | — | — | — | 1531.76 | — | 531.67 | — | — |
| 4028 | MD50-13-24032 | 50-24784 | 155–155 | 11/06/2012 | — | — | — | — | — | — | 2304.59 | — | — | 137.86 | 54.53 | 3705.64 | — | — |
| 4028 | MD50-13-24033 | 50-24784 | 244–244 | 11/06/2012 | — | — | — | — | — | — | 1897.90 | — | — | 99.57 | — | 3974.16 | — | — |
| 4028 | MD50-13-24034 | 50-24784 | 362–362 | 11/06/2012 | — | — | — | — | — | — | 1355.64 | — | — | — | — | 2792.65 | — | — |
| 4028 | MD50-13-24035 | 50-24784 | 450–450 | 11/06/2012 | — | — | — | — | — | — | 454.14 | — | — | — | — | 966.69 | — | — |
| 4028 | MD50-13-24089 | 50-613182 | 550–550 | 11/06/2012 | — | — | — | — | — | — | 169.46 | — | — | — | — | 3222.29 | — | — |
| 4028 | MD50-13-24090 | 50-613182 | 632.5–632.5 | 11/06/2012 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4028 | MD50-13-24143 | 50-603472 | 27–27 | 11/02/2012 | — | — | — | — | — | — | 494.80 | — | — | — | — | 2685.22 | — | — |
| 4028 | MD50-13-24144 | 50-603472 | 146–146 | 11/02/2012 | — | — | — | 416.57 | — | — | 813.38 | — | — | — | — | 13,426.1 | — | — |
| 4028 | MD50-13-24145 | 50-603472 | 364–364 | 11/02/2012 | — | — | — | 229.12 | — | — | 813.38 | — | — | — | — | 17,185.4 | — | — |
| 4028 | MD50-13-24146 | 50-603472 | 450–450 | 11/02/2012 | — | — | — | 79.84 | — | — | 576.14 | — | — | — | — | 11,815.0 | — | — |
| 4028 | MD50-13-24147 | 50-603472 | 292–292 | 11/02/2012 | — | — | — | 867.86 | — | — | 1558.97 | — | — | — | — | 31,148.6 | — | — |
| 4028 | MD50-13-24086 | 50-603471 | 450–450 | 10/31/2012 | — | — | — | 347.14 | — | — | 745.60 | — | — | — | — | 38,667.2 | — | — |
| 4028 | MD50-13-24087 | 50-613183 | 550–550 | 10/31/2012 | — | — | — | — | — | — | 74.56 | — | — | — | — | 3813.01 | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Ethylbenzene | Hexane | Hexanone [2-] | Methylene Chloride | n-Heptane | Propylene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **226,000** | **23,500,000** | **145** | **665** | **na** | **50,500,000** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **40,900** |
| 4028 | MD50-13-24088 | 50-613183 | 642.5–642.5 | 10/31/2012 | — | 42.27 | — | — | — | — | — | — | — | — | — | 75.19 | — | — |
| 4028 | MD50-13-24082 | 50-603471 | 90–90 | 10/30/2012 | — | — | — | 256.89 | — | — | 1016.72 | — | — | 314.01 | — | 19,870.6 | — | — |
| 4028 | MD50-13-24083 | 50-603471 | 209–209 | 10/30/2012 | — | — | — | 902.57 | — | — | 948.94 | — | — | — | — | 35,444.9 | — | — |
| 4028 | MD50-13-24084 | 50-603471 | 288–288 | 10/30/2012 | — | — | — | 1735.72 | — | — | 948.94 | — | — | — | — | 53,167.4 | — | — |
| 4028 | MD50-13-24085 | 50-603471 | 360–360 | 10/30/2012 | — | — | — | 833.14 | — | — | 881.16 | — | — | — | — | 44,574.7 | — | — |
| 4028 | MD50-13-24081 | 50-603470 | 450–450 | 10/29/2012 | — | — | — | 79.84 | — | — | 149.12 | — | — | 183.81 | — | 19,333.6 | — | — |
| 4028 | MD50-13-24077 | 50-603470 | 83–83 | 10/26/2012 | — | — | — | — | — | — | 1220.07 | — | — | 528.46 | — | 25,778.1 | — | — |
| 4028 | MD50-13-24078 | 50-603470 | 203–203 | 10/26/2012 | — | — | — | 590.14 | — | — | — | — | — | 765.88 | — | 40,278.3 | — | — |
| 4028 | MD50-13-24079 | 50-603470 | 278–278 | 10/26/2012 | — | — | — | 659.57 | — | — | — | — | — | 842.47 | — | 45,111.7 | — | — |
| 4028 | MD50-13-24080 | 50-603470 | 351–351 | 10/26/2012 | — | — | — | 225.64 | — | — | — | — | — | — | — | 22,555.9 | — | — |
| 4028 | MD50-13-24075 | 50-603470 | 600–600 | 10/25/2012 | — | — | — | — | — | — | — | — | — | — | — | 1557.43 | — | — |
| 4028 | MD50-13-24076 | 50-603470 | 650–650 | 10/25/2012 | — | — | — | — | — | — | — | — | — | — | — | 85.93 | — | — |
| 4028 | MD50-13-24036 | 50-24813 | 358–358 | 10/23/2012 | — | — | — | — | — | — | — | — | — | — | — | 26,315.2 | — | — |
| 4028 | MD50-13-24037 | 50-24813 | 450–450 | 10/23/2012 | — | — | — | 159.69 | — | — | 271.13 | — | — | — | — | 26,315.2 | — | — |
| 4028 | MD50-13-24038 | 50-24813 | 25–25 | 10/23/2012 | — | — | — | — | — | — | 454.14 | — | — | — | — | 13,426.1 | — | — |
| 4028 | MD50-13-24039 | 50-24813 | 600–600 | 10/23/2012 | — | — | — | — | — | — | — | — | — | — | — | 3329.67 | — | — |
| 4028 | MD50-13-24040 | 50-24813 | 150–150 | 10/23/2012 | — | — | — | 347.14 | — | — | 386.35 | — | — | — | — | 26,852.2 | — | — |
| 4028 | MD50-13-24041 | 50-24813 | 241–241 | 10/23/2012 | — | — | — | 1006.72 | — | — | 813.38 | — | — | — | — | 69,815.7 | — | — |
| 4028 | MD50-13-24095 | 50-613185 | 350–350 | 10/22/2012 | — | — | — | — | — | — | — | — | — | — | — | 4081.54 | — | — |
| 4028 | MD50-13-24096 | 50-613185 | 450–450 | 10/22/2012 | — | — | — | — | — | — | — | — | — | — | — | 1557.43 | — | — |
| 4028 | MD50-13-24097 | 50-613185 | 600–600 | 10/22/2012 | — | — | — | — | — | — | — | — | — | — | — | 96.67 | — | — |
| 4028 | MD50-13-24098 | 50-613185 | 235–235 | 10/22/2012 | — | — | — | 62.49 | — | — | 122.01 | — | — | — | — | 7518.62 | — | — |
| 4028 | MD50-13-24099 | 50-613185 | 145–145 | 10/22/2012 | — | — | — | — | — | — | 81.34 | — | — | — | — | 4618.58 | — | — |
| 4028 | MD50-13-24158 | 50-603468 | 233–233 | 10/19/2012 | — | — | — | 555.43 | — | — | 433.80 | — | — | — | — | 29,537.4 | — | — |
| 4028 | MD50-13-24159 | 50-603468 | 142–142 | 10/19/2012 | — | — | — | 208.29 | — | — | 372.80 | — | — | — | — | 24,167.0 | — | — |
| 4028 | MD50-13-24160 | 50-603468 | 354–354 | 10/19/2012 | — | — | — | 243.00 | — | — | 257.57 | — | — | — | — | 20,407.7 | — | — |
| 4028 | MD50-13-24161 | 50-603468 | 403–403 | 10/19/2012 | — | — | — | 211.76 | — | — | 305.02 | — | — | — | — | 22,555.9 | — | — |
| 4028 | MD50-13-24072 | 50-613184 | 664.5–664.5 | 10/18/2012 | — | — | — | — | — | — | — | — | — | — | — | 107.41 | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Ethylbenzene | Hexane | Hexanone [2-] | Methylene Chloride | n-Heptane | Propylene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **226,000** | **23,500,000** | **145** | **665** | **na** | **50,500,000** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **40,900** |
| 4028 | MD50-13-24073 | 50-613184 | 600–600 | 10/18/2012 | — | — | — | — | — | — | — | — | — | — | — | 698.16 | — | — |
| 4028 | MD50-13-24074 | 50-613184 | 500–500 | 10/18/2012 | — | — | — | — | — | — | — | — | — | — | — | 4135.24 | — | — |
| 4028 | MD50-13-24091 | 50-603503 | 450–450 | 10/17/2012 | — | — | — | — | — | — | 244.01 | — | — | — | — | 2953.74 | — | — |
| 4028 | MD50-13-24092 | 50-603503 | 347–347 | 10/17/2012 | — | — | — | 38.19 | — | — | 311.80 | — | — | — | — | 2900.04 | — | — |
| 4028 | MD50-13-24093 | 50-603503 | 237–237 | 10/17/2012 | — | — | — | 111.09 | — | — | 528.70 | — | — | — | — | 4887.10 | — | — |
| 4028 | MD50-13-24094 | 50-603503 | 133–133 | 10/17/2012 | — | — | — | — | — | — | 474.47 | — | — | 122.54 | — | 2148.18 | — | — |
| 4028 | MD50-13-24046 | 50-24822 | 142–142 | 10/16/2012 | — | — | — | 166.63 | — | — | 210.12 | — | — | — | — | 24,704.0 | — | — |
| 4028 | MD50-13-24070 | 50-603467 | 244–244 | 10/16/2012 | — | — | — | 590.14 | — | — | 881.16 | — | — | — | — | 30,074.5 | — | — |
| 4028 | MD50-13-24066 | 50-603467 | 143–143 | 10/15/2012 | — | — | — | 104.14 | — | — | — | — | — | — | — | 10,740.9 | — | — |
| 4028 | MD50-13-24067 | 50-603467 | 600–600 | 10/15/2012 | — | — | — | — | — | — | 115.23 | 100.21 | — | — | — | 3651.90 | — | — |
| 4028 | MD50-13-24068 | 50-603467 | 360–360 | 10/15/2012 | — | — | — | 145.80 | — | — | 745.60 | — | — | — | — | 29,000.4 | — | — |
| 4028 | MD50-13-24069 | 50-603467 | 500–500 | 10/15/2012 | — | — | — | — | — | — | 257.57 | — | — | — | — | 8592.71 | — | — |
| 4028 | MD50-13-24042 | 50-24822 | 25–25 | 10/11/2012 | — | — | — | — | — | — | 183.01 | — | — | — | — | 6981.57 | — | — |
| 4028 | MD50-13-24043 | 50-24822 | 450–450 | 10/11/2012 | — | — | — | — | — | — | — | — | — | — | — | 9129.75 | — | — |
| 4028 | MD50-13-24044 | 50-24822 | 235–235 | 10/11/2012 | — | — | — | 329.79 | — | — | — | — | — | — | — | 36,519.0 | — | — |
| 4028 | MD50-13-24045 | 50-24822 | 351–351 | 10/11/2012 | — | — | — | 62.49 | — | — | — | — | — | — | — | 11.815.0 | — | — |
| 4028 | MD50-13-24052 | 50-603062 | 122–122 | 10/10/2012 | — | — | — | — | — | — | — | — | — | 367.62 | — | 6444.53 | — | — |
| 4028 | MD50-13-24053 | 50-603062 | 217–217 | 10/10/2012 | — | — | — | — | — | — | — | — | — | 444.21 | — | 6981.57 | — | — |
| 4028 | MD50-13-24054 | 50-603062 | 337–337 | 10/10/2012 | — | — | — | — | — | — | — | — | — | 114.88 | — | 2040.77 | — | — |
| 4028 | MD50-13-24055 | 50-603062 | 450–450 | 10/10/2012 | — | — | — | — | — | — | — | — | — | — | — | 590.75 | — | — |
| 4028 | MD50-13-24061 | 50-603064 | 113–113 | 10/09/2012 | — | — | — | — | — | — | 657.48 | — | — | 12,254.10 | 2671.77 | 28,463.3 | — | — |
| 4028 | MD50-13-24062 | 50-603064 | 214–214 | 10/09/2012 | — | — | — | 381.86 | — | — | 467.69 | — | — | 11,488.20 | 1853.88 | 29,537.4 | — | — |
| 4028 | MD50-13-24063 | 50-603064 | 332–332 | 10/09/2012 | — | — | — | 65.96 | — | — | 203.34 | — | — | 3293.29 | 169.03 | 13,963.1 | — | — |
| 4028 | MD50-13-24064 | 50-603064 | 500–500 | 10/09/2012 | — | — | — | — | — | — | — | — | — | 183.81 | — | 1503.72 | — | — |
| 3799 | MD50-12-12093 | 50-603064 | 500.0–500.0 | 04/12/2012 | — | — | — | — | — | — | — | — | — | 145.52 | — | 1396.33 | — | — |
| 3799 | MD50-12-12094 | 50-603064 | 332.0–332.0 | 04/12/2012 | — | — | — | 62.49 | — | — | 196.57 | — | — | 3369.91 | 174.49 | 12,889.2 | — | — |
| 3799 | MD50-12-12095 | 50-603064 | 214.0–214.0 | 04/12/2012 | — | — | — | 416.58 | — | — | 576.15 | — | — | 12,254.20 | 2235.58 | 34,908.2 | 56.15 | — |
| 3799 | MD50-12-12096 | 50-603064 | 113.0–113.0 | 04/12/2012 | — | — | — | 104.14 | — | — | 596.48 | — | — | 9956.55 | 2290.11 | 24,704.2 | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Ethylbenzene | Hexane | Hexanone [2-] | Methylene Chloride | n-Heptane | Propylene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **226,000** | **23,500,000** | **145** | **665** | **na** | **50,500,000** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **40,900** |
| 3799 | MD50-12-12101 | 50-603383 | 26.0–26.0 | 04/06/2012 | — | — | — | - | — | — | 277.91 | — | — | 268.06 | 48.53 | 698.16 | — | — |
| 3799 | MD50-12-12097 | 50-603383 | 139.0–139.0 | 04/05/2012 | — | — | — | 48.60 | — | — | 1220.08 | — | — | 1302.01 | 223.56 | 4994.55 | — | — |
| 3799 | MD50-12-12098 | 50-603383 | 244.0–244.0 | 04/05/2012 | — | — | — | 69.43 | — | — | 1220.08 | — | — | 551.44 | 152.67 | 5370.49 | — | — |
| 3799 | MD50-12-12099 | 50-603383 | 359.0–359.0 | 04/05/2012 | — | — | — | — | — | — | 210.12 | — | — | 114.88 | — | 1396.33 | — | — |
| 3799 | MD50-12-12100 | 50-603383 | 450.0–450.0 | 04/05/2012 | — | — | — | — | — | — | 271.13 | 38.32 | — | — | — | 1342.62 | — | — |
| 3799 | MD50-12-12088 | 50-603063 | 25.0–25.0 | 04/04/2012 | — | — | — | — | — | — | 359.25 | — | — | 2680.61 | 354.42 | 1611.15 | — | — |
| 3799 | MD50-12-12092 | 50-603063 | 450.0–450.0 | 04/04/2012 | — | — | — | — | — | — | 372.80 | — | — | 114.88 | — | 8592.78 | — | — |
| 3799 | MD50-12-12089 | 50-603063 | 128.0–128.0 | 04/03/2012 | — | — | — | — | — | — | 1084.51 | — | — | 5284.63 | 872.42 | 10,741.0 | — | — |
| 3799 | MD50-12-12090 | 50-603063 | 228.0–228.0 | 04/03/2012 | — | — | — | 93.73 | — | — | 1694.55 | — | — | 5514.39 | 763.37 | 25,241.3 | 78.61 | — |
| 3799 | MD50-12-12091 | 50-603063 | 347.0–347.0 | 04/03/2012 | — | — | — | 90.26 | — | — | 616.82 | — | — | 1302.01 | 52.35 | 12,889.2 | — | — |
| 3799 | MD50-12-12128 | 50-603472 | 27.0–27.0 | 04/02/2012 | — | — | — | — | — | — | 596.48 | — | — | — | 52.89 | 3329.70 | — | — |
| 3799 | MD50-12-12129 | 50-603472 | 146.0–146.0 | 04/02/2012 | — | — | — | 520.72 | — | — | 1084.51 | — | — | 122.54 | — | 17,185.6 | — | — |
| 3799 | MD50-12-12130 | 50-603472 | 450.0–450.0 | 04/02/2012 | — | — | — | 86.79 | — | — | 671.04 | — | — | — | — | 12,889.2 | — | — |
| 3799 | MD50-12-12131 | 50-603472 | 364.0–364.0 | 04/02/2012 | — | — | — | 222.17 | — | — | 813.38 | — | — | — | — | 15,574.4 | — | — |
| 3799 | MD50-12-12132 | 50-603472 | 292.0–292.0 | 04/02/2012 | — | — | — | 867.87 | — | — | 1558.99 | — | — | 99.57 | — | 28,463.6 | — | — |
| 3799 | MD50-12-12133 | 50-613182 | 550.0–550.0 | 04/02/2012 | — | — | — | — | — | — | 189.79 | — | — | — | — | 3490.82 | — | — |
| 3799 | MD50-12-12134 | 50-613182 | 632.0–632.0 | 04/02/2012 | — | — | — | — | — | 18.92 | — | — | — | — | — | 6.98 | — | — |
| 3799 | MD50-12-12121 | 50-603471 | 450.0–450.0 | 03/30/2012 | — | — | — | 381.86 | — | — | 813.38 | — | — | 145.52 | — | 39,741.6 | — | — |
| 3799 | MD50-12-12122 | 50-603471 | 288.0–288.0 | 03/30/2012 | — | — | — | 2430.02 | — | — | 1491.20 | — | — | 513.15 | — | 69,816.3 | — | — |
| 3799 | MD50-12-12123 | 50-603471 | 360.0–360.0 | 03/30/2012 | — | — | — | 1110.87 | — | — | 1084.51 | — | — | 321.67 | — | 53,167.8 | 72.99 | — |
| 3799 | MD50-12-12124 | 50-603471 | 90.0–90.0 | 03/30/2012 | — | — | — | 295.07 | — | — | 1016.73 | — | — | 298.70 | 59.98 | 19,870.8 | — | — |
| 3799 | MD50-12-12125 | 50-603471 | 209.0–209.0 | 03/30/2012 | — | — | — | 2082.88 | — | — | 1287.86 | — | — | 505.49 | — | 53,704.9 | — | — |
| 3799 | MD50-12-12126 | 50-613183 | 642.5–642.5 | 03/30/2012 | — | 59.88 | — | — | 49.15 | — | — | — | — | — | — | 96.67 | — | — |
| 3799 | MD50-12-12127 | 50-613183 | 550.0–550.0 | 03/30/2012 | — | — | — | — | — | — | 88.12 | — | — | — | — | 3813.05 | — | — |
| 3799 | MD50-12-12118 | 50-603470 | 351.0–351.0 | 03/29/2012 | — | — | — | 381.86 | — | — | 332.13 | — | — | 520.80 | — | 40,278.7 | 51.66 | — |
| 3799 | MD50-12-12119 | 50-603470 | 278.0–278.0 | 03/29/2012 | — | — | — | 937.30 | — | — | 616.82 | — | — | 919.07 | 103.60 | 64,445.8 | — | — |
| 3799 | MD50-12-12120 | 50-603470 | 203.0–203.0 | 03/29/2012 | — | — | — | 555.43 | — | — | 515.14 | — | — | 689.30 | 103.60 | 40,815.7 | — | — |
| 3799 | MD50-12-12114 | 50-603470 | 83.0–83.0 | 03/28/2012 | — | — | — | 59.01 | — | — | 813.38 | — | — | 329.33 | 70.88 | 15,574.4 | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Ethylbenzene | Hexane | Hexanone [2-] | Methylene Chloride | n-Heptane | Propylene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **226,000** | **23,500,000** | **145** | **665** | **na** | **50,500,000** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **40,900** |
| 3799 | MD50-12-12115 | 50-603470 | 450.0–450.0 | 03/28/2012 | — | — | — | 83.32 | — | — | 135.56 | — | — | 160.84 | — | 17,185.6 | — | — |
| 3799 | MD50-12-12116 | 50-603470 | 600.0–600.0 | 03/28/2012 | — | — | — | — | — | — | — | — | — | — | — | 1718.56 | — | — |
| 3799 | MD50-12-12117 | 50-603470 | 650.0–650.0 | 03/28/2012 | — | — | — | — | — | — | — | — | — | — | — | 80.56 | — | — |
| 3799 | MD50-12-12068 | 50-24813 | 450.0–450.0 | 03/27/2012 | — | — | — | 159.69 | — | — | 257.57 | — | — | — | — | 24,704.2 | — | — |
| 3799 | MD50-12-12069 | 50-24813 | 600.0–600.0 | 03/27/2012 | — | — | — | — | — | — | — | — | — | — | — | 2631.54 | — | — |
| 3799 | MD50-12-12064 | 50-24813 | 358.0–358.0 | 03/26/2012 | — | — | — | 180.52 | — | — | 603.26 | — | — | — | — | 53,704.9 | — | — |
| 3799 | MD50-12-12065 | 50-24813 | 241.0–241.0 | 03/26/2012 | — | — | — | 1666.30 | — | — | 1084.51 | — | — | — | — | 85,927.8 | — | — |
| 3799 | MD50-12-12066 | 50-24813 | 150.0–150.0 | 03/26/2012 | — | — | — | 590.15 | — | — | 677.82 | — | — | — | — | 42,426.9 | — | — |
| 3799 | MD50-12-12067 | 50-24813 | 25.0–25.0 | 03/26/2012 | — | — | — | — | — | — | 481.25 | — | — | — | — | 13,963.3 | — | — |
| 3799 | MD50-12-12060 | 50-24784 | 155.0–155.0 | 03/23/2012 | — | — | — | 48.60 | — | — | 2304.59 | — | — | 168.50 | 54.53 | 3598.23 | — | — |
| 3799 | MD50-12-12061 | 50-24784 | 244.0–244.0 | 03/23/2012 | — | — | — | 65.96 | — | — | 2101.24 | — | — | 114.88 | — | 4081.57 | — | — |
| 3799 | MD50-12-12062 | 50-24784 | 362.0–362.0 | 03/23/2012 | — | — | — | 41.66 | — | — | 1355.64 | — | — | — | — | 2631.54 | — | — |
| 3799 | MD50-12-12063 | 50-24784 | 450.0–450.0 | 03/23/2012 | — | — | — | 32.63 | — | — | 488.03 | — | — | — | — | 1020.39 | — | — |
| 3799 | MD50-12-12079 | 50-603061 | 25–25 | 03/22/2012 | — | — | — | — | — | — | 108.45 | — | — | 15,317.80 | 1799.37 | 526.31 | — | — |
| 3799 | MD50-12-12075 | 50-603061 | 450–450 | 03/21/2012 | — | — | — | — | — | — | — | — | — | 1455.19 | — | 483.34 | — | — |
| 3799 | MD50-12-12076 | 50-603061 | 347–347 | 03/21/2012 | — | — | — | — | — | — | 81.34 | — | — | 6739.82 | 408.95 | 1342.62 | — | — |
| 3799 | MD50-12-12077 | 50-603061 | 228–228 | 03/21/2012 | — | — | — | — | — | — | — | — | — | 3676.26 | 545.26 | 590.75 | — | — |
| 3799 | MD50-12-12078 | 50-603061 | 128–128 | 03/21/2012 | — | — | — | — | — | — | 311.80 | — | — | 29,103.70 | 5452.64 | 2792.65 | — | — |
| 3799 | MD50-12-12087 | 50-603062 | 122–122 | 03/20/2012 | — | — | — | — | — | — | — | — | — | 428.90 | 54.53 | 6444.58 | — | — |
| 3799 | MD50-12-12084 | 50-603062 | 450.0–450.0 | 03/19/2012 | — | — | — | — | — | — | — | — | — | — | — | 590.75 | — | — |
| 3799 | MD50-12-12085 | 50-603062 | 337.0–337.0 | 03/19/2012 | — | — | — | — | — | — | — | — | — | 122.54 | — | 2040.79 | — | — |
| 3799 | MD50-12-12086 | 50-603062 | 217.0–217.0 | 03/19/2012 | — | — | — | — | — | — | — | — | — | 520.80 | 47.98 | 8055.73 | — | — |
| 3799 | MD50-12-12102 | 50-603467 | 244.0–244.0 | 03/16/2012 | — | — | — | 131.92 | — | — | 677.82 | — | — | — | — | 25241.30 | — | — |
| 3799 | MD50-12-12104 | 50-603467 | 500.0–500.0 | 03/16/2012 | — | — | — | — | — | — | 176.23 | — | — | — | — | 6981.63 | — | — |
| 3799 | MD50-12-12106 | 50-603467 | 143.0–143.0 | 03/16/2012 | — | — | — | 180.52 | — | — | 433.81 | — | — | — | — | 15,037.4 | — | — |
| 3799 | MD50-12-12135 | 50-603503 | 237.0–237.0 | 03/15/2012 | — | — | — | 124.97 | — | — | 603.26 | — | — | 74.29 | — | 5370.49 | — | — |
| 3799 | MD50-12-12136 | 50-603503 | 133.0–133.0 | 03/15/2012 | 43.40 | 137.38 | — | — | — | 223.60 | 74.56 | — | 312.59 | — | — | 435.01 | — | 117.16 |
| 3799 | MD50-12-12137 | 50-603503 | 347.0–347.0 | 03/15/2012 | — | — | — | 38.19 | — | — | 291.46 | — | — | — | — | 2631.54 | — | — |

**Table 5.2-6 (continued)**

| Sampling Plan 2012 | Field Sample ID | Location ID | Depth (ft) | Date | Ethylbenzene | Hexane | Hexanone [2-] | Methylene Chloride | n-Heptane | Propylene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloro-1,2,2-trifluoroethane[1,1,2-] | Trichloroethane[1,1,1-] | Trichloroethene | Trichlorofluoromethane | Xylene[1,3-]+Xylene[1,4-] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Groundwater Tier I SL** | | | | | **226,000** | **23,500,000** | **145** | **665** | **na** | **50,500,000** | **3630** | **na** | **272,000** | **1,190,000,000** | **141,000** | **2020** | **4,540,000** | **40,900** |
| 3799 | MD50-12-12138 | 50-603503 | 450.0–450.0 | 03/15/2012 | — | — | — | — | — | — | 264.35 | — | — | — | — | 3114.88 | — | — |
| 3799 | MD50-12-12103 | 50-603467 | 360.0–360.0 | 03/14/2012 | — | — | — | 624.86 | — | — | 881.17 | — | — | — | — | 30,611.8 | — | — |
| 3799 | MD50-12-12105 | 50-603467 | 600.0–600.0 | 03/14/2012 | — | — | 736.92 | — | — | — | 108.45 | 55.00 | — | — | — | 3383.41 | — | — |
| 3799 | MD50-12-12072 | 50-24822 | 235.0–235.0 | 03/13/2012 | — | — | — | 336.73 | — | — | 230.46 | — | — | 199.13 | — | 40,815.7 | — | — |
| 3799 | MD50-12-12074 | 50-24822 | 25–25 | 03/13/2012 | — | — | — | — | — | — | 162.68 | — | — | 71.99 | — | 8055.73 | — | — |
| 3799 | MD50-12-12070 | 50-24822 | 450.0–450.0 | 03/12/2012 | — | — | — | — | — | — | — | — | — | — | — | 10,741.0 | — | — |
| 3799 | MD50-12-12071 | 50-24822 | 351.0–351.0 | 03/12/2012 | — | — | — | 111.09 | — | — | 108.45 | — | — | — | — | 22,019.0 | — | — |
| 3799 | MD50-12-12073 | 50-24822 | 142.0–142.0 | 03/12/2012 | — | — | — | 156.22 | — | — | 189.79 | — | — | 145.52 | — | 25,241.3 | — | — |
| 3799 | MD50-12-12108 | 50-603468 | 142–142 | 03/09/2012 | — | — | — | 97.20 | — | — | 196.57 | — | — | — | — | 10,203.9 | — | — |
| 3799 | MD50-12-12109 | 50-603468 | 233–233 | 03/09/2012 | — | — | — | 520.72 | — | — | 420.25 | — | — | — | — | 29,000.6 | — | — |
| 3799 | MD50-12-12110 | 50-603468 | 354–354 | 03/09/2012 | — | — | — | 381.86 | — | — | 420.25 | — | — | — | — | 32,760.0 | — | — |
| 3799 | MD50-12-12107 | 50-603468 | 403–403 | 03/08/2012 | — | — | — | 267.30 | — | — | 338.91 | — | — | — | — | 27,926.5 | — | — |
| 3799 | MD50-12-12111 | 50-613184 | 664.5–664.5 | 03/08/2012 | — | — | — | — | — | — | — | — | — | — | — | 102.04 | — | — |
| 3799 | MD50-12-12112 | 50-613184 | 600–600 | 03/08/2012 | — | — | — | — | — | — | — | — | — | — | — | 698.16 | — | — |
| 3799 | MD50-12-12113 | 50-613184 | 500–500 | 03/08/2012 | — | — | — | — | — | — | 65.07 | — | — | — | — | 4296.39 | — | — |
| 3799 | MD50-12-12143 | 50-613185 | 145–145 | 03/07/2012 | — | — | — | 41.66 | — | — | 81.34 | — | — | — | — | 5316.78 | — | — |
| 3799 | MD50-12-12139 | 50-613185 | 235–235 | 03/06/2012 | — | — | — | 83.32 | — | — | 115.23 | — | — | — | — | 8592.78 | — | — |
| 3799 | MD50-12-12140 | 50-613185 | 350–350 | 03/06/2012 | — | — | — | — | — | — | 66.43 | — | — | — | — | 4242.69 | — | — |
| 3799 | MD50-12-12141 | 50-613185 | 450–450 | 03/06/2012 | — | — | — | — | — | — | — | — | — | — | — | 1718.56 | — | — |
| 3799 | MD50-12-12142 | 50-613185 | 600–600 | 03/06/2012 | — | — | — | — | — | — | — | — | — | — | — | 145.00 | — | — |

Notes: Concentrations are in µg/m$^3$. Purple shading means the value exceeds groundwater screening levels for the analyte listed.

[a] na = Not available.

[b] — = Not detected.

[c] J = The analyte was positively identified and the associated numerical value is estimated to be more uncertain than would normally be expected for that result.

**Table 5.2-7**
**Tritium Detections (pCi/L) at MDA C (2012–2017)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2012 | 50-24784 | 155.0–155.0 | 29,900.00 |
| 2012 | 50-24784 | 155–155 | 4759.15 |
| 2012 | 50-24784 | 244.0–244.0 | 3541.00 |
| 2012 | 50-24784 | 244–244 | 2177.90 |
| 2012 | 50-24784 | 362.0–362.0 | 3822.00 |
| 2012 | 50-24784 | 362–362 | 4174.94 |
| 2012 | 50-24784 | 450.0–450.0 | 1909.00 |
| 2012 | 50-24784 | 450–450 | 534.17 |
| 2012 | 50-24813 | 25.0–25.0 | 1094.00 |
| 2012 | 50-24813 | 25–25 | 481.04 |
| 2012 | 50-24813 | 150.0–150.0 | 195,100.00 |
| 2012 | 50-24813 | 150–150 | 164,506.00 |
| 2012 | 50-24813 | 241.0–241.0 | 1917.00 |
| 2012 | 50-24813 | 241–241 | 2304.70 |
| 2012 | 50-24813 | 358.0–358.0 | 1365.00 |
| 2012 | 50-24813 | 450.0–450.0 | 2339.00 |
| 2012 | 50-24813 | 450–450 | 777.28 |
| 2012 | 50-24813 | 600.0–600.0 | 693.20 |
| 2012 | 50-24813 | 600–600 | 680.49 |
| 2012 | 50-24822 | 25–25 | 641.80 |
| 2012 | 50-24822 | 25–25 | 7026.22 |
| 2012 | 50-24822 | 142.0–142.0 | 362.10 |
| 2012 | 50-24822 | 142–142 | 2962.70 |
| 2012 | 50-24822 | 235.0–235.0 | 6,001,000.00 |
| 2012 | 50-24822 | 235–235 | 6694.07 |
| 2012 | 50-24822 | 351–351 | 5843.40 |
| 2012 | 50-24822 | 450.0–450.0 | 1623.00 |
| 2012 | 50-24822 | 450–450 | 5141.45 |
| 2012 | 50-603061 | 25–25 | 483.40 |
| 2012 | 50-603061 | 25–25 | 672.85 |
| 2012 | 50-603061 | 128–128 | 1976.00 |
| 2012 | 50-603061 | 128–128 | 15,292.80 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2012 | 50-603061 | 228–228 | 1723.00 |
| 2012 | 50-603061 | 228–228 | 3091.32 |
| 2012 | 50-603061 | 347–347 | 3821.00 |
| 2012 | 50-603061 | 347–347 | 3061.97 |
| 2012 | 50-603061 | 450–450 | 1477.00 |
| 2012 | 50-603061 | 450–450 | 2343.69 |
| 2012 | 50-603062 | 122–122 | 571.90 |
| 2012 | 50-603062 | 122–122 | 4307.39 |
| 2012 | 50-603062 | 217.0–217.0 | 539.70 |
| 2012 | 50-603062 | 217–217 | 7364.55 |
| 2012 | 50-603062 | 337.0–337.0 | 1185.00 |
| 2012 | 50-603062 | 337–337 | 4792.64 |
| 2012 | 50-603062 | 450.0–450.0 | 751.50 |
| 2012 | 50-603062 | 450–450 | 10,177.20 |
| 2012 | 50-603063 | 25–25 | 696.67 |
| 2012 | 50-603063 | 128.0–128.0 | 1972.11 |
| 2012 | 50-603063 | 128–128 | 2408.52 |
| 2012 | 50-603063 | 228.0–228.0 | 3224.50 |
| 2012 | 50-603063 | 228–228 | 2027.12 |
| 2012 | 50-603063 | 347.0–347.0 | 1489.20 |
| 2012 | 50-603063 | 347–347 | 1427.92 |
| 2012 | 50-603063 | 450–450 | 2241.28 |
| 2012 | 50-603064 | 113.0–113.0 | 2715.40 |
| 2012 | 50-603064 | 113–113 | 7895.52 |
| 2012 | 50-603064 | 214.0–214.0 | 2107.10 |
| 2012 | 50-603064 | 214–214 | 8380.32 |
| 2012 | 50-603064 | 332.0–332.0 | 1148.00 |
| 2012 | 50-603064 | 332–332 | 3327.35 |
| 2012 | 50-603064 | 500.0–500.0 | 47,055.00 |
| 2012 | 50-603064 | 500–500 | 5412.37 |
| 2012 | 50-603383 | 26.0–26.0 | 1,624,200.00 |
| 2012 | 50-603383 | 26–26 | 248,542.00 |
| 2012 | 50-603383 | 139.0–139.0 | 113,404.00 |
| 2012 | 50-603383 | 139–139 | 1,554,510.00 |
| 2012 | 50-603383 | 244.0–244.0 | 204,505.00 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2012 | 50-603383 | 244–244 | 290,803.00 |
| 2012 | 50-603383 | 359.0–359.0 | 157,375.00 |
| 2012 | 50-603383 | 359–359 | 363,969.00 |
| 2012 | 50-603383 | 450.0–450.0 | 2227.80 |
| 2012 | 50-603383 | 450–450 | 340,920.00 |
| 2012 | 50-603467 | 143.0–143.0 | 1265.00 |
| 2012 | 50-603467 | 143–143 | 9315.99 |
| 2012 | 50-603467 | 244.0–244.0 | 790.30 |
| 2012 | 50-603467 | 244–244 | 8535.58 |
| 2012 | 50-603467 | 360.0–360.0 | 4294.00 |
| 2012 | 50-603467 | 360–360 | 3810.57 |
| 2012 | 50-603467 | 500.0–500.0 | 1253.00 |
| 2012 | 50-603467 | 500–500 | 3671.11 |
| 2012 | 50-603467 | 600.0–600.0 | 1606.00 |
| 2012 | 50-603467 | 600–600 | 6051.68 |
| 2012 | 50-603468 | 142–142 | 840.80 |
| 2012 | 50-603468 | 142–142 | 6635.91 |
| 2012 | 50-603468 | 233–233 | 585.00 |
| 2012 | 50-603468 | 233–233 | 1175.42 |
| 2012 | 50-603468 | 354–354 | 491.80 |
| 2012 | 50-603468 | 354–354 | 2245.55 |
| 2012 | 50-603468 | 403–403 | 1391.00 |
| 2012 | 50-603468 | 403–403 | 1738.31 |
| 2012 | 50-603470 | 83.0–83.0 | 3,166,000.00 |
| 2012 | 50-603470 | 83–83 | 2,834,900.00 |
| 2012 | 50-603470 | 203.0–203.0 | 3552.00 |
| 2012 | 50-603470 | 278.0–278.0 | 4325.00 |
| 2012 | 50-603470 | 351.0–351.0 | 5140.00 |
| 2012 | 50-603470 | 450.0–450.0 | 4083.00 |
| 2012 | 50-603470 | 600.0–600.0 | 2533.00 |
| 2012 | 50-603470 | 600–600 | 531.33 |
| 2012 | 50-603471 | 90.0–90.0 | 49,720.00 |
| 2012 | 50-603471 | 90–90 | 52,232.00 |
| 2012 | 50-603471 | 209.0–209.0 | 3731.00 |
| 2012 | 50-603471 | 209–209 | 3309.17 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2012 | 50-603471 | 288.0–288.0 | 2920.00 |
| 2012 | 50-603471 | 288–288 | 11,255.20 |
| 2012 | 50-603471 | 360.0–360.0 | 27,070.00 |
| 2012 | 50-603471 | 360–360 | 4088.73 |
| 2012 | 50-603471 | 450.0–450.0 | 2574.00 |
| 2012 | 50-603471 | 450–450 | 5157.25 |
| 2012 | 50-603472 | 27.0–27.0 | 480,200.00 |
| 2012 | 50-603472 | 27–27 | 608,131.00 |
| 2012 | 50-603472 | 146.0–146.0 | 3114.00 |
| 2012 | 50-603472 | 146–146 | 2405.29 |
| 2012 | 50-603472 | 292.0–292.0 | 5246.00 |
| 2012 | 50-603472 | 292–292 | 4006.26 |
| 2012 | 50-603472 | 364.0–364.0 | 1688.00 |
| 2012 | 50-603472 | 364–364 | 3355.53 |
| 2012 | 50-603472 | 450.0–450.0 | 2116.00 |
| 2012 | 50-603472 | 450–450 | 7014.55 |
| 2012 | 50-603503 | 133.0–133.0 | 199,500.00 |
| 2012 | 50-603503 | 133–133 | 18,944.40 |
| 2012 | 50-603503 | 237.0–237.0 | 2194.00 |
| 2012 | 50-603503 | 237–237 | 6980.61 |
| 2012 | 50-603503 | 347.0–347.0 | 1525.00 |
| 2012 | 50-603503 | 347–347 | 3441.99 |
| 2012 | 50-603503 | 450.0–450.0 | 396.30 |
| 2012 | 50-603503 | 450–450 | 3279.36 |
| 2012 | 50-613182 | 550–550 | 659.14 |
| 2012 | 50-613182 | 632.5–632.5 | 2725.00 |
| 2012 | 50-613183 | 550.0–550.0 | 3223.00 |
| 2012 | 50-613184 | 500–500 | 1155.63 |
| 2012 | 50-613184 | 600–600 | 2610.00 |
| 2012 | 50-613184 | 600–600 | 1204.07 |
| 2012 | 50-613184 | 664.5–664.5 | 2145.45 |
| 2012 | 50-613185 | 145–145 | 2434.72 |
| 2012 | 50-613185 | 235–235 | 6291.28 |
| 2012 | 50-613185 | 350–350 | 789.30 |
| 2012 | 50-613185 | 350–350 | 1921.87 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2012 | 50-613185 | 450–450 | 4444.63 |
| 2012 | 50-613185 | 600–600 | 2160.49 |
| 2013 | 50-24784 | 155–155 | 2705.21 |
| 2013 | 50-24784 | 155–155 | 2317.20 |
| 2013 | 50-24784 | 244–244 | 1689.87 |
| 2013 | 50-24784 | 244–244 | 20,883.90 |
| 2013 | 50-24784 | 362–362 | 1056.60 |
| 2013 | 50-24784 | 362–362 | 1069.76 |
| 2013 | 50-24784 | 450–450 | 1045.35 |
| 2013 | 50-24813 | 25–25 | 568.92 |
| 2013 | 50-24813 | 150–150 | 198,426.00 |
| 2013 | 50-24813 | 150–150 | 142,621.00 |
| 2013 | 50-24813 | 241–241 | 1665.30 |
| 2013 | 50-24813 | 241–241 | 1418.30 |
| 2013 | 50-24822 | 25–25 | 929.71 |
| 2013 | 50-24822 | 25–25 | 789.76 |
| 2013 | 50-24822 | 142–142 | 567.59 |
| 2013 | 50-24822 | 142–142 | 488.59 |
| 2013 | 50-24822 | 235–235 | 1012.22 |
| 2013 | 50-24822 | 235–235 | 517.68 |
| 2013 | 50-24822 | 351–351 | 995.46 |
| 2013 | 50-24822 | 351–351 | 548.89 |
| 2013 | 50-24822 | 450–450 | 1016.34 |
| 2013 | 50-24822 | 450–450 | 542.96 |
| 2013 | 50-603061 | 25–25 | 1730.77 |
| 2013 | 50-603061 | 128–128 | 1499.92 |
| 2013 | 50-603061 | 128–128 | 5220.71 |
| 2013 | 50-603061 | 228–228 | 1519.61 |
| 2013 | 50-603061 | 228–228 | 1971.11 |
| 2013 | 50-603061 | 347–347 | 3613.59 |
| 2013 | 50-603061 | 347–347 | 3169.19 |
| 2013 | 50-603061 | 450–450 | 569.83 |
| 2013 | 50-603062 | 217–217 | 405.35 |
| 2013 | 50-603062 | 337–337 | 2617.70 |
| 2013 | 50-603062 | 450–450 | 2374.54 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2013 | 50-603063 | 25–25 | 900.16 |
| 2013 | 50-603063 | 128–128 | 1327.73 |
| 2013 | 50-603063 | 128–128 | 1109.45 |
| 2013 | 50-603063 | 228–228 | 1499.13 |
| 2013 | 50-603063 | 228–228 | 3617.67 |
| 2013 | 50-603063 | 347–347 | 1630.48 |
| 2013 | 50-603063 | 347–347 | 918.67 |
| 2013 | 50-603063 | 450–450 | 2242.64 |
| 2013 | 50-603063 | 450–450 | 3050.28 |
| 2013 | 50-603064 | 113–113 | 1661.41 |
| 2013 | 50-603064 | 113–113 | 999.95 |
| 2013 | 50-603064 | 214–214 | 1892.47 |
| 2013 | 50-603064 | 214–214 | 441.53 |
| 2013 | 50-603064 | 332–332 | 987.12 |
| 2013 | 50-603064 | 332–332 | 882.16 |
| 2013 | 50-603383 | 26–26 | 248,873.00 |
| 2013 | 50-603383 | 26–26 | 206,010.00 |
| 2013 | 50-603383 | 139–139 | 2,166,610.00 |
| 2013 | 50-603383 | 139–139 | 2,289,520.00 |
| 2013 | 50-603383 | 244–244 | 280,727.00 |
| 2013 | 50-603383 | 244–244 | 596,944.00 |
| 2013 | 50-603383 | 359–359 | 108,848.00 |
| 2013 | 50-603383 | 359–359 | 356,461.00 |
| 2013 | 50-603383 | 450–450 | 489,395.00 |
| 2013 | 50-603383 | 450–450 | 420,900.00 |
| 2013 | 50-603467 | 143–143 | 698.33 |
| 2013 | 50-603467 | 244–244 | 1032.28 |
| 2013 | 50-603467 | 600–600 | 1561.83 |
| 2013 | 50-603470 | 83–83 | 3,235,070.00 |
| 2013 | 50-603470 | 83–83 | 3,202,520.00 |
| 2013 | 50-603470 | 203–203 | 1397.55 |
| 2013 | 50-603470 | 203–203 | 964.28 |
| 2013 | 50-603470 | 278–278 | 1542.40 |
| 2013 | 50-603470 | 278–278 | 687.52 |
| 2013 | 50-603470 | 351–351 | 816.32 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2013 | 50-603470 | 351–351 | 522.66 |
| 2013 | 50-603470 | 600–600 | 472.46 |
| 2013 | 50-603470 | 650–650 | 590.63 |
| 2013 | 50-603471 | 90–90 | 39,694.10 |
| 2013 | 50-603471 | 90.0–90.0 | 42,534.40 |
| 2013 | 50-603471 | 209–209 | 23,788.20 |
| 2013 | 50-603471 | 209–209 | 2262.94 |
| 2013 | 50-603471 | 288–288 | 2842.06 |
| 2013 | 50-603471 | 288–288 | 2706.28 |
| 2013 | 50-603471 | 360–360 | 1656.97 |
| 2013 | 50-603471 | 360–360 | 2113.10 |
| 2013 | 50-603471 | 450–450 | 1550.06 |
| 2013 | 50-603471 | 450–450 | 2006.30 |
| 2013 | 50-603472 | 27–27 | 543,802.00 |
| 2013 | 50-603472 | 27–27 | 628,078.00 |
| 2013 | 50-603472 | 146–146 | 1708.03 |
| 2013 | 50-603472 | 146–146 | 2230.21 |
| 2013 | 50-603472 | 292–292 | 3263.48 |
| 2013 | 50-603472 | 292–292 | 3498.66 |
| 2013 | 50-603472 | 364–364 | 978.44 |
| 2013 | 50-603472 | 364–364 | 1391.89 |
| 2013 | 50-603472 | 450–450 | 1006.70 |
| 2013 | 50-603503 | 133–133 | 1656.10 |
| 2013 | 50-603503 | 133–133 | 1287.90 |
| 2013 | 50-603503 | 237–237 | 1214.37 |
| 2013 | 50-603503 | 237–237 | 747.87 |
| 2013 | 50-603503 | 347–347 | 490.06 |
| 2013 | 50-613182 | 550–550 | 703.18 |
| 2013 | 50-613182 | 550–550 | 849.26 |
| 2013 | 50-613182 | 632.5–632.5 | 778.91 |
| 2013 | 50-613183 | 550–550 | 2736.33 |
| 2013 | 50-613183 | 550–550 | 2616.74 |
| 2013 | 50-613184 | 500–500 | 2627.04 |
| 2014 | 50-24784 | 155–155 | 775.63 |
| 2014 | 50-24784 | 155–155 | 2092.76 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2014 | 50-24784 | 244–244 | 1123.79 |
| 2014 | 50-24784 | 244–244 | 1565.82 |
| 2014 | 50-24784 | 362–362 | 510.53 |
| 2014 | 50-24784 | 362–362 | 1228.17 |
| 2014 | 50-24784 | 450–450 | 413.58 |
| 2014 | 50-24784 | 450–450 | 680.28 |
| 2014 | 50-24813 | 25–25 | 544.27 |
| 2014 | 50-24813 | 150–150 | 157,608.00 |
| 2014 | 50-24813 | 150–150 | 179,410.00 |
| 2014 | 50-24813 | 241–241 | 2492.17 |
| 2014 | 50-24813 | 241–241 | 1600.54 |
| 2014 | 50-24813 | 358–358 | 730.88 |
| 2014 | 50-24813 | 450–450 | 744.47 |
| 2014 | 50-24813 | 450–450 | 2491.84 |
| 2014 | 50-24813 | 600–600 | 5307.27 |
| 2014 | 50-24822 | 25–25 | 1086.85 |
| 2014 | 50-24822 | 25–25 | 713.54 |
| 2014 | 50-24822 | 235–235 | 645.37 |
| 2014 | 50-24822 | 351–351 | 859.74 |
| 2014 | 50-603061 | 128–128 | 799.57 |
| 2014 | 50-603061 | 128–128 | 739.95 |
| 2014 | 50-603061 | 228–228 | 30,608.50 |
| 2014 | 50-603061 | 228–228 | 2011.18 |
| 2014 | 50-603061 | 347–347 | 7160.25 |
| 2014 | 50-603061 | 347–347 | 3265.89 |
| 2014 | 50-603062 | 122–122 | 1794.37 |
| 2014 | 50-603062 | 337–337 | 6911.51 |
| 2014 | 50-603062 | 450–450 | 656.95 |
| 2014 | 50-603063 | 25–25 | 989.59 |
| 2014 | 50-603063 | 128–128 | 1040.68 |
| 2014 | 50-603063 | 128–128 | 1338.14 |
| 2014 | 50-603063 | 228–228 | 3802.32 |
| 2014 | 50-603063 | 228–228 | 1372.73 |
| 2014 | 50-603063 | 347–347 | 2255.26 |
| 2014 | 50-603063 | 347–347 | 1651.13 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2014 | 50-603063 | 450–450 | 1616.23 |
| 2014 | 50-603063 | 450–450 | 3213.35 |
| 2014 | 50-603064 | 113–113 | 1432.86 |
| 2014 | 50-603064 | 113–113 | 1048.90 |
| 2014 | 50-603064 | 214–214 | 1376.91 |
| 2014 | 50-603064 | 332–332 | 1063.19 |
| 2014 | 50-603064 | 332–332 | 809.77 |
| 2014 | 50-603064 | 500–500 | 884.49 |
| 2014 | 50-603383 | 26–26 | 187,020.00 |
| 2014 | 50-603383 | 26–26 | 192,891.00 |
| 2014 | 50-603383 | 139–139 | 2,119,240.00 |
| 2014 | 50-603383 | 139–139 | 2,537,390.00 |
| 2014 | 50-603383 | 244–244 | 154,443.00 |
| 2014 | 50-603383 | 244–244 | 421,384.00 |
| 2014 | 50-603383 | 359–359 | 5,097.89 |
| 2014 | 50-603383 | 359–359 | 501,111.00 |
| 2014 | 50-603383 | 450–450 | 661,098.00 |
| 2014 | 50-603383 | 450–450 | 452,668.00 |
| 2014 | 50-603467 | 143–143 | 730.26 |
| 2014 | 50-603467 | 244–244 | 1128.26 |
| 2014 | 50-603467 | 244–244 | 750.69 |
| 2014 | 50-603467 | 360–360 | 865.40 |
| 2014 | 50-603467 | 500–500 | 6157.06 |
| 2014 | 50-603468 | 403–403 | 2199.19 |
| 2014 | 50-603470 | 83–83 | 960,960.00 |
| 2014 | 50-603470 | 83–83 | 2,728,890.00 |
| 2014 | 50-603470 | 203–203 | 490.08 |
| 2014 | 50-603470 | 203–203 | 652.71 |
| 2014 | 50-603470 | 278–278 | 567.52 |
| 2014 | 50-603470 | 278–278 | 2301.63 |
| 2014 | 50-603470 | 351–351 | 618.03 |
| 2014 | 50-603470 | 351–351 | 2157.12 |
| 2014 | 50-603470 | 450–450 | 387.16 |
| 2014 | 50-603471 | Unknown* | 15,678.50 |
| 2014 | 50-603471 | Unknown* | 34,705.90 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2014 | 50-603471 | 90.0–90.0 | 9523.10 |
| 2014 | 50-603471 | 90–90 | 12,351.50 |
| 2014 | 50-603471 | 209–209 | 2719.29 |
| 2014 | 50-603471 | 209–209 | 6343.10 |
| 2014 | 50-603471 | 288–288 | 9698.13 |
| 2014 | 50-603471 | 360–360 | 2935.82 |
| 2014 | 50-603471 | 360–360 | 11,494.40 |
| 2014 | 50-603471 | 450–450 | 4645.69 |
| 2014 | 50-603471 | 450–450 | 19,632.20 |
| 2014 | 50-603472 | 27–27 | 315,002.00 |
| 2014 | 50-603472 | 27–27 | 646,712.00 |
| 2014 | 50-603472 | 146–146 | 711.84 |
| 2014 | 50-603472 | 146–146 | 2028.20 |
| 2014 | 50-603472 | 292–292 | 950.48 |
| 2014 | 50-603472 | 292–292 | 3821.30 |
| 2014 | 50-603472 | 364–364 | 491.59 |
| 2014 | 50-603472 | 364–364 | 1142.53 |
| 2014 | 50-603472 | 450–450 | 5839.31 |
| 2014 | 50-603472 | 450–450 | 8163.37 |
| 2014 | 50-603503 | 133–133 | 1288.52 |
| 2014 | 50-603503 | 133–133 | 739.11 |
| 2014 | 50-603503 | 237–237 | 1341.67 |
| 2014 | 50-603503 | 237–237 | 1199.10 |
| 2014 | 50-603503 | 347–347 | 1056.51 |
| 2014 | 50-603503 | 450–450 | 1015.84 |
| 2014 | 50-613182 | 550–550 | 974.13 |
| 2014 | 50-613182 | 550–550 | 2877.34 |
| 2014 | 50-613182 | 632.5–632.5 | 595.77 |
| 2014 | 50-613182 | 632.5–632.5 | 3057.51 |
| 2014 | 50-613183 | 642.5–642.5 | 3202.66 |
| 2015 | 50-24784 | 155–155 | 649.499 |
| 2015 | 50-24784 | 155–155 | 2813.47 |
| 2015 | 50-24784 | 244–244 | 503.318 |
| 2015 | 50-24784 | 244–244 | 3292.63 |
| 2015 | 50-24784 | 362–362 | 611.08 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2015 | 50-24784 | 362–362 | 1860.73 |
| 2015 | 50-24784 | 450-450 | 297.531 |
| 2015 | 50–24784 | 450–450 | 1270.1 |
| 2015 | 50-24813 | 25–25 | 683.766 |
| 2015 | 50-24813 | 150–150 | 114583 |
| 2015 | 50-24813 | 150–150 | 157943 |
| 2015 | 50-24813 | 241–241 | 2212 |
| 2015 | 50-24813 | 241–241 | 1848.65 |
| 2015 | 50-24813 | 358–358 | 1081.68 |
| 2015 | 50-24813 | 358–358 | 684.626 |
| 2015 | 50-24813 | 450–450 | 689.837 |
| 2015 | 50-24822 | 25–25 | 828.998 |
| 2015 | 50-24822 | 25–25 | 796.259 |
| 2015 | 50-24822 | 142–142 | 687.962 |
| 2015 | 50-24784 | 155–155 | 649.499 |
| 2015 | 50-24822 | 235–235 | 844.539 |
| 2015 | 50-24822 | 351–351 | 819.781 |
| 2015 | 50-603061 | 25–25 | 902.535 |
| 2015 | 50-603061 | 128–128 | 1660.74 |
| 2015 | 50-603061 | 128–128 | 1041.01 |
| 2015 | 50-603061 | 228–228 | 2681.66 |
| 2015 | 50-603061 | 228–228 | 2371.54 |
| 2015 | 50-603061 | 347–347 | 16242.9 |
| 2015 | 50-603061 | 347–347 | 3348.83 |
| 2015 | 50-603061 | 450–450 | 19274.8 |
| 2015 | 50-603062 | 217–217 | 892.3 |
| 2015 | 50-603063 | 25–25 | 685.927 |
| 2015 | 50-603063 | 128–128 | 2132.99 |
| 2015 | 50-603063 | 128–128 | 2126.93 |
| 2015 | 50-603063 | 228–228 | 2301.65 |
| 2015 | 50-603063 | 228–228 | 2435.11 |
| 2015 | 50-603063 | 347–347 | 8133.76 |
| 2015 | 50-603063 | 347–347 | 3496.8 |
| 2015 | 50-603063 | 450–450 | 2070.15 |
| 2015 | 50-603063 | 450–450 | 3375.49 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2015 | 50-603064 | 113–113 | 403.725 |
| 2015 | 50-603064 | 113–113 | 1547.81 |
| 2015 | 50-603064 | 214–214 | 323.549 |
| 2015 | 50-603064 | 214–214 | 1344.59 |
| 2015 | 50-603064 | 332–332 | 1096.19 |
| 2015 | 50-603064 | 332–332 | 1222.18 |
| 2015 | 50-603383 | 26–26 | 110335 |
| 2015 | 50-603383 | 26–26 | 234977 |
| 2015 | 50-603383 | 139–139 | 1,047,890 |
| 2015 | 50-603383 | 139–139 | 3,006,620 |
| 2015 | 50-603383 | 244–244 | 226926 |
| 2015 | 50-603383 | 244–244 | 609378 |
| 2015 | 50-603383 | 359–359 | 219380 |
| 2015 | 50-603383 | 359–359 | 618200 |
| 2015 | 50-603383 | 450–450 | 176804 |
| 2015 | 50-603383 | 450–450 | 626713 |
| 2015 | 50-603468 | 233–233 | 615.938 |
| 2015 | 50-603470 | 83–83 | 1,291,780 |
| 2015 | 50-603470 | 83–83 | 3,478,570 |
| 2015 | 50-603470 | 203–203 | 299.325 |
| 2015 | 50-603470 | 203–203 | 1741.5 |
| 2015 | 50-603470 | 278–278 | 269.617 |
| 2015 | 50-603470 | 278–278 | 1094.58 |
| 2015 | 50-603470 | 351–351 | 268.699 |
| 2015 | 50-603470 | 351–351 | 800.617 |
| 2015 | 50-603471 | Unknown* | 22311.1 |
| 2015 | 50-603471 | Unknown* | 49510 |
| 2015 | 50-603471 | 90–90 | 6400.72 |
| 2015 | 50-603471 | 90–90 | 15389.3 |
| 2015 | 50-603471 | 209–209 | 4078.61 |
| 2015 | 50-603471 | 209–209 | 14911.6 |
| 2015 | 50-603471 | 288–288 | 3252.4 |
| 2015 | 50-603471 | 288–288 | 11386.7 |
| 2015 | 50-603471 | 360–360 | 6665.45 |
| 2015 | 50-603471 | 360–360 | 23817.1 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2015 | 50-603471 | 450–450 | 5721.68 |
| 2015 | 50-603471 | 450–450 | 17054.9 |
| 2015 | 50-603472 | 27–27 | 565730 |
| 2015 | 50-603472 | 27–27 | 893484 |
| 2015 | 50-603472 | 146–146 | 429.919 |
| 2015 | 50-603472 | 146–146 | 2112.76 |
| 2015 | 50-603472 | 292–292 | 2699.96 |
| 2015 | 50-603472 | 292–292 | 3327.76 |
| 2015 | 50-603472 | 364–364 | 1200.18 |
| 2015 | 50-603472 | 364–364 | 1954.89 |
| 2015 | 50-603472 | 450–450 | 239.492 |
| 2015 | 50-603472 | 450–450 | 11874.2 |
| 2015 | 50-603503 | 133–133 | 1823.19 |
| 2015 | 50-603503 | 133–133 | 1008.53 |
| 2015 | 50-603503 | 237–237 | 1739.17 |
| 2015 | 50-603503 | 237–237 | 1458.54 |
| 2015 | 50-613182 | 550–550 | 15177.3 |
| 2015 | 50-613182 | 550–550 | 1460.23 |
| 2015 | 50-613182 | 632.5–632.5 | 618.256 |
| 2015 | 50-613183 | 550–550 | 328.377 |
| 2016 | 50-24784 | 155–155 | 2142.35 |
| 2016 | 50-24784 | 155–155 | 482.06 |
| 2016 | 50-24784 | 244–244 | 1937.64 |
| 2016 | 50-24784 | 244–244 | 522.04 |
| 2016 | 50-24784 | 362–362 | 2960.00 |
| 2016 | 50-24784 | 362–362 | 246.91 |
| 2016 | 50-24784 | 450–450 | 2539.61 |
| 2016 | 50-24784 | 450–450 | 263.12 |
| 2016 | 50-24813 | 25–25 | 991.07 |
| 2016 | 50-24813 | 150–150 | 108,124.00 |
| 2016 | 50-24813 | 150–150 | 132,949.00 |
| 2016 | 50-24813 | 241–241 | 1729.75 |
| 2016 | 50-24813 | 241–241 | 963.03 |
| 2016 | 50-24813 | 358–358 | 810.30 |
| 2016 | 50-24822 | 25–25 | 431.52 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2016 | 50-24822 | 142–142 | 620.04 |
| 2016 | 50-24822 | 235–235 | 314.39 |
| 2016 | 50-603061 | 128–128 | 1112.66 |
| 2016 | 50-603061 | 128–128 | 927.79 |
| 2016 | 50-603061 | 228–228 | 2076.29 |
| 2016 | 50-603061 | 228–228 | 2148.34 |
| 2016 | 50-603061 | 347–347 | 2646.59 |
| 2016 | 50-603061 | 347–347 | 2616.13 |
| 2016 | 50-603062 | 217–217 | 1658.57 |
| 2016 | 50-603062 | 450–450 | 1088.92 |
| 2016 | 50-603063 | 25–25 | 677.93 |
| 2016 | 50-603063 | 128–128 | 57,423.10 |
| 2016 | 50-603063 | 128–128 | 1013.05 |
| 2016 | 50-603063 | 228–228 | 1476.07 |
| 2016 | 50-603063 | 228–228 | 826.11 |
| 2016 | 50-603063 | 347–347 | 2726.85 |
| 2016 | 50-603063 | 347–347 | 606.87 |
| 2016 | 50-603063 | 450–450 | 3989.44 |
| 2016 | 50-603063 | 450–450 | 1676.20 |
| 2016 | 50-603064 | 113–113 | 2022.47 |
| 2016 | 50-603064 | 214–214 | 1095.86 |
| 2016 | 50-603064 | 332–332 | 2016.84 |
| 2016 | 50-603064 | 332–332 | 1236.39 |
| 2016 | 50-603383 | 26–26 | 190,954.00 |
| 2016 | 50-603383 | 26–26 | 164,789.00 |
| 2016 | 50-603383 | 139–139 | 2,070,170.00 |
| 2016 | 50-603383 | 139–139 | 2,088,090.00 |
| 2016 | 50-603383 | 244–244 | 375,777.00 |
| 2016 | 50-603383 | 244–244 | 432,558.00 |
| 2016 | 50-603383 | 359–359 | 581,957.00 |
| 2016 | 50-603383 | 359–359 | 414,190.00 |
| 2016 | 50-603383 | 450–450 | 502,209.00 |
| 2016 | 50-603383 | 450–450 | 452,293.00 |
| 2016 | 50-603470 | 83–83 | 2,984,470.00 |
| 2016 | 50-603470 | 83–83 | 2,596,820.00 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2016 | 50-603470 | 203–203 | 1199.43 |
| 2016 | 50-603470 | 203–203 | 1366.05 |
| 2016 | 50-603470 | 278–278 | 908.11 |
| 2016 | 50-603470 | 278–278 | 718.19 |
| 2016 | 50-603470 | 351–351 | 954.45 |
| 2016 | 50-603470 | 351–351 | 764.23 |
| 2016 | 50-603470 | 450–450 | 627.03 |
| 2016 | 50-603471 | Unknown* | 39,284.30 (J) |
| 2016 | 50-603471 | Unknown* | 39,023.60 |
| 2016 | 50-603471 | 90–90 | 14,855.10 (J) |
| 2016 | 50-603471 | 90–90 | 11,572.30 |
| 2016 | 50-603471 | 209–209 | 10,864.30 (J) |
| 2016 | 50-603471 | 209–209 | 5047.56 |
| 2016 | 50-603471 | 288–288 | 10,804.20 (J) |
| 2016 | 50-603471 | 288–288 | 6328.06 |
| 2016 | 50-603471 | 360–360 | 12,478.70 (J) |
| 2016 | 50-603471 | 360–360 | 10,363.00 |
| 2016 | 50-603471 | 450–450 | 15,069.50 (J) |
| 2016 | 50-603471 | 450–450 | 14,612.80 |
| 2016 | 50-603472 | 27–27 | 931,818.00 |
| 2016 | 50-603472 | 27–27 | 374,060.00 |
| 2016 | 50-603472 | 146–146 | 4196.54 |
| 2016 | 50-603472 | 146–146 | 1202.89 |
| 2016 | 50-603472 | 292–292 | 4172.43 |
| 2016 | 50-603472 | 292–292 | 7789.36 |
| 2016 | 50-603472 | 364–364 | 4401.78 |
| 2016 | 50-603472 | 364–364 | 1486.42 |
| 2016 | 50-603472 | 450–450 | 4116.18 |
| 2016 | 50-603472 | 450–450 | 1582.30 |
| 2016 | 50-603503 | 133–133 | 1062.54 |
| 2016 | 50-603503 | 133–133 | 264.06 |
| 2016 | 50-603503 | 237–237 | 1149.27 |
| 2016 | 50-603503 | 237–237 | 269.46 |
| 2016 | 50-603503 | 347–347 | 812.47 |
| 2016 | 50-613182 | 550–550 | 785.65 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2016 | 50-613182 | 632.5–632.5 | 683.16 |
| 2017 | 50-24784 | 155–155 | 487.50 |
| 2017 | 50-24784 | 155–155 | 934.16 |
| 2017 | 50-24784 | 244–244 | 1008.40 |
| 2017 | 50-24784 | 244–244 | 670.02 |
| 2017 | 50-24784 | 362–362 | 820.92 |
| 2017 | 50-24784 | 362–362 | 572.60 |
| 2017 | 50-24784 | 450–450 | 1031.49 |
| 2017 | 50-24784 | 450–450 | 595.66 |
| 2017 | 50-24813 | 25–25 | 564.39 |
| 2017 | 50-24813 | 150–150 | 42,244.90 |
| 2017 | 50-24813 | 150–150 | 46,250.80 |
| 2017 | 50-24813 | 241–241 | 504.76 |
| 2017 | 50-24813 | 241–241 | 450.08 |
| 2017 | 50-24813 | 358–358 | 395.76 |
| 2017 | 50-24813 | 450–450 | 314.59 |
| 2017 | 50-24813 | 600–600 | 318.08 |
| 2017 | 50-24822 | 25–25 | 449.52 |
| 2017 | 50-24822 | 142–142 | 430.27 |
| 2017 | 50-24822 | 235–235 | 292.91 |
| 2017 | 50-24822 | 351–351 | 268.41 |
| 2017 | 50-24822 | 351–351 | 224.04 |
| 2017 | 50-24822 | 450–450 | 284.43 |
| 2017 | 50-603061 | 128–128 | 421.67 |
| 2017 | 50-603061 | 128–128 | 316.62 |
| 2017 | 50-603061 | 228–228 | 722.13 |
| 2017 | 50-603061 | 228–228 | 712.07 |
| 2017 | 50-603061 | 347–347 | 975.25 |
| 2017 | 50-603061 | 347–347 | 1114.11 |
| 2017 | 50-603061 | 450–450 | 213.18 |
| 2017 | 50-603063 | 128–128 | 3460.30 (J+) |
| 2017 | 50-603063 | 128–128 | 341.68 |
| 2017 | 50-603063 | 228–228 | 706.57 (J+) |
| 2017 | 50-603063 | 228–228 | 677.36 |
| 2017 | 50-603063 | 347–347 | 1966.48 (J+) |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2017 | 50-603063 | 347–347 | 474.40 |
| 2017 | 50-603063 | 450–450 | 534.39 (J+) |
| 2017 | 50-603063 | 450–450 | 392.79 |
| 2017 | 50-603064 | 113–113 | 440.53 |
| 2017 | 50-603064 | 214–214 | 341.93 |
| 2017 | 50-603064 | 332–332 | 528.77 |
| 2017 | 50-603064 | 332–332 | 635.34 |
| 2017 | 50-603383 | 26–26 | 89,829.20 |
| 2017 | 50-603383 | 26–26 | 111,753.00 |
| 2017 | 50-603383 | 139–139 | 730,930.00 |
| 2017 | 50-603383 | 139–139 | 698,136.00 |
| 2017 | 50-603383 | 244–244 | 95,566.70 |
| 2017 | 50-603383 | 244–244 | 100,398.00 |
| 2017 | 50-603383 | 359–359 | 194,954.00 |
| 2017 | 50-603383 | 359–359 | 128,701.00 |
| 2017 | 50-603383 | 450–450 | 160,498.00 |
| 2017 | 50-603383 | 450–450 | 108,054.00 |
| 2017 | 50-603467 | 244–244 | 262.33 |
| 2017 | 50-603467 | 360–360 | 220.72 |
| 2017 | 50-603468 | 142–142 | 678.44 |
| 2017 | 50-603468 | 142–142 | 313.59 |
| 2017 | 50-603468 | 233–233 | 346.25 |
| 2017 | 50-603468 | 233–233 | 222.29 |
| 2017 | 50-603468 | 403–403 | 238.54 |
| 2017 | 50-603470 | 83–83 | 278.53 |
| 2017 | 50-603470 | 83–83 | 1,326,830.00 |
| 2017 | 50-603470 | 203–203 | 227.18 |
| 2017 | 50-603470 | 203–203 | 365.53 |
| 2017 | 50-603470 | 278–278 | 222.13 |
| 2017 | 50-603470 | 351–351 | 385.34 |
| 2017 | 50-603470 | 351–351 | 255.05 |
| 2017 | 50-603470 | 650–650 | 680.64 |
| 2017 | 50-603471 | Unknown* | 17,598.70 |
| 2017 | 50-603471 | Unknown* | 17,518.10 |
| 2017 | 50-603471 | 90–90 | 4903.43 |

**Table 5.2-7 (continued)**

| Sampling Year | Borehole ID | Sample Depth (ft) | Analytical Result (pCi/L) |
|---|---|---|---|
| 2017 | 50-603471 | 90–90 | 5057.68 |
| 2017 | 50-603471 | 209–209 | 1701.31 |
| 2017 | 50-603471 | 209–209 | 2494.67 |
| 2017 | 50-603471 | 288–288 | 25,076.10 |
| 2017 | 50-603471 | 288–288 | 2932.95 |
| 2017 | 50-603471 | 360–360 | 3574.32 |
| 2017 | 50-603471 | 360–360 | 52,970.10 |
| 2017 | 50-603471 | 450–450 | 4095.55 |
| 2017 | 50-603471 | 450–450 | 4740.16 |
| 2017 | 50-603472 | 27–27 | 318,329.00 |
| 2017 | 50-603472 | 27–27 | 595,093.00 |
| 2017 | 50-603472 | 146–146 | 992.14 |
| 2017 | 50-603472 | 146–146 | 502.91 |
| 2017 | 50-603472 | 292–292 | 1247.47 |
| 2017 | 50-603472 | 292–292 | 1262.88 |
| 2017 | 50-603472 | 364–364 | 512.47 |
| 2017 | 50-603472 | 364–364 | 605.05 |
| 2017 | 50-603472 | 450–450 | 885.35 |
| 2017 | 50-603472 | 450–450 | 3240.91 |
| 2017 | 50-603503 | 133–133 | 699.72 |
| 2017 | 50-603503 | 133–133 | 451.32 |
| 2017 | 50-603503 | 237–237 | 547.64 |
| 2017 | 50-603503 | 237–237 | 431.90 |
| 2017 | 50-613182 | 550–550 | 483.75 |
| 2017 | 50-613182 | 550–550 | 486.78 |
| 2017 | 50-613182 | 632.5–632.5 | 236.04 |
| 2017 | 50-613183 | 642.5–642.5 | 39,737.90 |
| 2017 | 50-613184 | 500–500 | 269.39 |
| 2017 | 50-613185 | 235–235 | 413.30 |
| 2017 | 50-613185 | 350–350 | 296.65 |

*The unknown port could be at 30 ft or it could be at 90 ft and the one labeled 90 ft could actually be the 30-ft port. During the sampling, the sampling team was unable to determine the actual depth, which is why both ports were sampled.

# Appendix A

*Acronyms and Abbreviations,*
*Metric Conversion Table, and Data Qualifier Definitions*

## A-1.0 ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| ADR | Automated Data Review (EIM module) |
| bgs | below ground surface |
| CFR | Code of Federal Regulations |
| CME | corrective measures evaluation |
| COC | chain of custody |
| Consent Order | Compliance Order on Consent |
| DOE | Department of Energy (U.S.) |
| EDD | electronic data deliverable |
| EIM | Environmental Information Management (database) |
| EPA | Environmental Protection Agency (U.S.) |
| FB | field blank |
| FD | field duplicate |
| FY | fiscal year |
| IR | infrared |
| LANL | Los Alamos National Laboratory |
| MCL | maximum contaminant level |
| MDA | material disposal area |
| N3B | Newport News Nuclear BWXT-Los Alamos, LLC |
| NMED | New Mexico Environment Department |
| NMWQCC | New Mexico Water Quality Control Commission |
| Permit | Hazardous Waste Facility Permit |
| PMR | periodic monitoring report |
| QA | quality assurance |
| QC | quality control |
| SCL | sample collection log |
| SL | screening level |
| slpm | standard liters per minute |
| SMO | Sample Management Office |
| SOP | standard operating procedure |
| SVE | soil-vapor extraction |
| SWMU | solid waste management unit |
| TA | technical area |
| TCE | trichloroethylene |
| VOC | volatile organic compound |

## A-2.0 METRIC CONVERSION TABLE

| Multiply SI (Metric) Unit | by | To Obtain U.S. Customary Unit |
|---|---|---|
| kilometers (km) | 0.622 | miles (mi) |
| kilometers (km) | 3281 | feet (ft) |
| meters (m) | 3.281 | feet (ft) |
| meters (m) | 39.37 | inches (in.) |
| centimeters (cm) | 0.03281 | feet (ft) |
| centimeters (cm) | 0.394 | inches (in.) |
| millimeters (mm) | 0.0394 | inches (in.) |
| micrometers or microns (µm) | 0.0000394 | inches (in.) |
| square kilometers ($km^2$) | 0.3861 | square miles ($mi^2$) |
| hectares (ha) | 2.47 | Acres |
| square meters ($m^2$) | 10.764 | square feet ($ft^2$) |
| cubic meters ($m^3$) | 35.31 | cubic feet ($ft^3$) |
| kilograms (kg) | 2.2046 | pounds (lb) |
| grams (g) | 0.0353 | ounces (oz) |
| grams per cubic centimeter ($g/cm^3$) | 62.422 | pounds per cubic foot ($lb/ft^3$) |
| milligrams per kilogram (mg/kg) | 1 | parts per million by mass (ppmm) |
| micrograms per gram (µg/g) | 1 | parts per million (ppm) |
| liters (L) | 0.26 | gallons (gal.) |
| milligrams per liter (mg/L) | 1 | parts per million by volume (ppmv) |
| degrees Celsius (°C) | 9/5 + 32 | degrees Fahrenheit (°F) |

## A-3.0 DATA QUALIFIER DEFINITIONS

| Data Qualifier | Definition |
|---|---|
| U | The analyte was analyzed for but not detected. |
| J | The analyte was positively identified, and the associated numerical value is estimated to be more uncertain than would normally be expected for that analysis. |
| J+ | The analyte was positively identified, and the result is likely to be biased high. |
| J- | The analyte was positively identified, and the result is likely to be biased low. |
| UJ | The analyte was not positively identified in the sample, and the associated value is an estimate of the sample-specific detection or quantitation limit. |
| R | The data are rejected as a result of major problems with quality assurance/quality control parameters. |

# Appendix B

*Field Methods*

## B-1.0 INTRODUCTION

This appendix summarizes the field methods used during the calendar year 2019 sampling activities at Material Disposal Area (MDA) C, Solid Waste Management Unit 50-009, in Technical Area 50 at Los Alamos National Laboratory (LANL or the Laboratory). All activities were conducted in accordance with the applicable standard operating procedures (SOPs), quality procedures, and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) implementation and procedural requirements. Table B-1.0-1 summarizes the field methods used, Table B-1.0-2 lists the applicable procedures, and Table B-1.0-3 lists the field screening data.

## B-2.0 FIELD METHODS

All work was conducted according to site-specific health and safety documents and an integrated work document. The field activities conducted according to SOPs are discussed below.

### B-2.1 Volatile Organic Compound Pore-Gas Sample Collection

Samples were collected following purging of the sample port and stabilization of field parameters. Monitored field parameters include static pressure of port, purge flow rate, methane, carbon dioxide, oxygen, and volatile organic compounds (VOCs). Each port was purged for a minimum of 10 min, after which oxygen, carbon dioxide and VOCs were monitored to ensure levels were stable before sample collection. A minimum sample purge flow rate of 0.3 standard liters per minute (slpm) is required for collection. Ports with purge flow rates of less than 0.3 slpm were considered plugged and not sampled. A MultiRAE gas detector was used to screen for oxygen, carbon dioxide, and VOCs. Once stabilization occurred, the sample was collected in a SUMMA canister. Field crews noted the pressure measurements of the SUMMA canister before and after the sample was taken and noted all field parameters. Field duplicates were collected immediately following the original sample. Field blanks were collected with the use of ultrapure nitrogen gas (99.9%). Information was recorded on the appropriate sample collection logs (SCLs). Field chain-of-custody (COC) forms and SCLs are provided in Appendix E (on DVD included with this document).

All VOC samples were collected in accordance with the current version of N3B-SOP-ER-2008, “Sampling Subsurface Vapor.”

All samples were submitted to the N3B Sample Management Office (SMO) for processing and transport to off-site contract analytical laboratories.

### B-2.2 Volatile Organic Compound Pore-Gas Field Screening

All VOC samples were field screened in accordance with the current version of N3B-SOP-ER-2008, “Sampling Subsurface Vapor.” This procedure covers the use of the MultiRAE IR Multi-Gas Monitor. All field screening results were recorded on the appropriate SCLs in the field logbook and/or in tables and are provided in Appendix E (on DVD included with this document).

Before each sampling event, each sampling port was purged of stagnant air and then monitored with a MultiRAE IR Multi-Gas Monitor until the percent carbon dioxide (%$CO_2$) and percent oxygen (%$O_2$) levels stabilized at values representative of subsurface pore-gas conditions. In addition, VOC concentrations were estimated in parts per million using the MultiRAE IR Multi-Gas Monitor equipped with an 11.7-electonvolt

lamp photoionization detector (PID). Each rented instrument was shipped factory-calibrated to the subcontractor, and the calibration was checked daily.

Oxygen values should be near the zero point for $O_2$. The $CO_2$ reading should be near zero. Readings deviating from the zero points for $O_2$ and $CO_2$ may be because of subsurface conditions or a need for calibration.

Drawing sufficient air from the sampling interval through the line ensured that the vapor-sample tubing was purged of stagnant air. To ensure that the sample collected was representative of the subsurface air at depth, every sampling activity included a purge cycle.

The %$CO_2$ and %$O_2$ screening levels are presented in Table B.1-0.3.

### B-2.3 Tritium Pore-Gas Sample Collection

All tritium samples were collected in accordance with the current version of N3B-SOP-ER-2008. Silica gel was the medium used to collect moisture from pore-gas samples. To collect water vapor intended for tritium analysis from pore gas, a pore-gas sample was pulled through a canister of silica gel (silica-gel column), and the sample information was recorded on the appropriate SCL (included in Appendix E [on DVD included with this document]). The moisture was analyzed for tritium by means of liquid scintillation counting. Silica-gel column field duplicate samples were planned to be collected at a frequency greater than or equal to 10% per sampling event in accordance with the current version of N3B-ER-SOP-20235, “Sample Containers, Preservation, and Field Quality Control.” During the second round of sampling, four tritium field duplicates were planned for collection. Because of a sampling field crew error, the valve on one tee fitting for the duplicate was left closed and the field duplicate was cancelled, leaving only three FDs collected.

Silica gel was prepared for sampling by drying at a temperature above 100°C. Drying removes moisture from the silica gel but does not remove bound water, as demonstrated when the bound water percentage in each batch of silica gel is measured. Before sample collection, the amount of silica gel used in each sample was weighed (typically about 135 g). The sample canister with silica gel was also weighed before sampling. N3B-SOP-ER-2008 requires that at least 5 g of moisture be collected. After sampling, the sample canister with silica gel was weighed again to verify that 5 g of water vapor had been collected.

The sample (canister plus silica gel) was shipped to the analytical laboratory where it was weighed again. The silica gel was emptied into a distillation apparatus and heated to 110°C, driving moisture off the silica gel. This moisture was collected and analyzed for tritium by liquid scintillation. The analytical laboratory also weighed the empty canister and calculated the percent moisture of the sample as the amount of moisture collected divided by the calculated weight of the wet silica gel. The value of the tritium activity and the calculated percent moisture were reported to N3B in the analytical data package and the electronic data deliverable.

**Table B-1.0-1**
**Summary of Field Methods**

| Method | Summary |
|---|---|
| General Instructions for Field Investigations | General instructions for field investigations (e.g., pre-work briefings, plan-of-the-day meetings, tail gate meetings) provide an overview of instructions regarding activities performed before, during, and after field investigations. Field investigations are assumed to involve standard sampling equipment, personal protective equipment, waste management, and site-control equipment/materials; and general fieldwork guidance covers premobilization activities, mobilization to the site, documentation and sample collection activities, sample media evaluation, surveillance, and completion of lessons learned. |
| Sample Containers and Preservation | Specific requirements/processes for sample containers, preservation techniques, and holding times are based on the U.S. Environmental Protection Agency guidance for environmental sampling, preservation, and quality assurance. Specific requirements were met for each sample and were printed in the SCLs provided by N3B's SMO (size and type of container, preservatives, etc.). |
| Handling, Packaging, and Transporting Field Samples | Field team members sealed and labeled samples before packing to ensure sample and transport containers were free of external contamination. All environmental samples were collected, preserved, packaged, and transported to the SMO under COC (N3B-ER-SOP 10094 R1, "Sample Receiving and Shipping by the N3B Sample Management Office"). The SMO arranged for shipping of the samples to analytical laboratories. Any levels of radioactivity (i.e., action-level or limited-quantity ranges) were documented in SCLs submitted to the SMO. |
| Sample Control and Field Documentation | The collection, screening, and transport of samples were documented in standard forms generated by the SMO. These forms include SCLs, COC forms, sample container labels, and custody seals. Collection logs were completed at the time of sample collection and were signed by the sampler and a reviewer who verified the logs for completeness and accuracy. Corresponding labels were initialed and applied to each sample container, and custody seals were placed around container lids or openings. COC forms were completed and signed to verify that the samples were not left unattended. |
| Field Quality Control Samples | Field quality control samples were collected as follows:<br>Field duplicates for VOCs were collected at a frequency of 10% and at the same time as a regular sample and submitted for the same analyses. In the second round of sampling, four tritium field duplicates were planned for collection. Because of a sampling field crew error, the valve on one tee fitting for the duplicate was left closed and the field duplicate was cancelled, leaving only three field duplicates collected.<br>Field blanks required for all field events that include collecting samples for VOC analyses were collected. Field blanks were kept with the other sample containers during the sampling process and were submitted for laboratory analyses. |
| Sampling Subsurface Vapor | Vapor sampling was performed at 18 monitoring wells in accordance with the current version of N3B-SOP-ER-2008, and samples were analyzed for VOCs and tritium. This SOP describes the process of sampling subsurface air from vapor ports in monitoring wells and boreholes. The procedure covers pre-sampling activities, sampling to detect and quantify gaseous organic concentration in air, SUMMA sampling (a passive collection and containment system of laboratory-quality air samples), adsorbent column sampling, and sampling through the packer system (a sampling system that uses inflatable bladders to seal off a desired interval in an open borehole or at the end of a drill casing to obtain a sample from a discrete section), and post-sampling activities. |

**Table B-1.0-2**
**List of Procedures Used for MDA C Pore-Gas Monitoring Activities**

| Document Number | N3B Procedure Title |
|---|---|
| N3B-AP-ER-1002 | Environmental Remediation (ER) Field Work Requirements |
| N3B-ER-SOP-20235 | Sample Containers, Preservation, and Field Quality Control |
| N3B-ER-SOP-10093, R1 | Sample Control and Field Documentation |
| N3B-SOP-ER-2002 | Field Decontamination of Equipment |
| N3B-SOP-ER-2008 | Sampling Subsurface Vapor |
| N3B-P101-6 | Personal Protective Equipment |
| N3B-ER-SOP-20145 | Requesting and Managing Data Sets |
| N3B-POL-QAT-0019 | Investigation of Abnormal Events |
| N3B-OIO-SOP-5269 | Chain-of-Custody and Final Records Preparation for Analytic Data |
| N3B-ER-SOP10094, R1<br>N3B-SOP-SDM-1002 | Sample Receiving and Shipping by the N3B Sample Management Office |
| N3B-AP-ER-1001 | Environmental Remediation Project Preparedness Review |
| N3B-EP-DIR-SOP-10021, R1 | Characterization and Management of Environmental Programs Waste |

**Table B-1.0-3**
**Field-Screening Results with MultiRAE IR Multi-Gas Monitor for 2019 Sampling**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-24784 | 155 | $CO_2$ (ppm) | 8210 | 10,500 |
| | | $O_2$ (%) | 19.8 | 18.7 |
| | | VOC (ppm)[b] | 1 | 1.6 |
| | 244 | $CO_2$ (ppm) | 6530 | 9700 |
| | | $O_2$ (%) | 19.9 | 20.2 |
| | | VOC (ppm) | 1 | 0.9 |
| | 362 | CO2 (ppm) | 4730 | 6900 |
| | | $O_2$ (%) | 19.9 | 20 |
| | | VOC (ppm) | 0.7 | 0.5 |
| | 450 | $CO_2$ (ppm) | 3440 | 4800 |
| | | $O_2$ (%) | 20 | 20 |
| | | VOC (ppm) | 0.2 | 0.3 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-24813 | 25 | $CO_2$ (ppm) | 17,100 | 22,000 |
| | | $O_2$ (%) | 19 | 18.7 |
| | | VOC (ppm) | 1.6 | 1 |
| | 150 | $CO_2$ (ppm) | 13,800 | 18,300 |
| | | $O_2$ (%) | 19.3 | 19.5 |
| | | VOC (ppm) | 8.9 | 3.7 |
| | 241 | $CO_2$ (ppm) | 9570 | 12,500 |
| | | $O_2$ (%) | 19.6 | 19.7 |
| | | VOC (ppm) | 17.3 | 8.8 |
| | 358 | $CO_2$ (ppm) | 7380 | 9300 |
| | | $O_2$ (%) | 19.8 | 19.9 |
| | | VOC (ppm) | 13.7 | 8 |
| | 450 | $CO_2$ (ppm) | 5270 | 6900 |
| | | $O_2$ (%) | 19.9 | 19.9 |
| | | VOC (ppm) | 6.8 | 2.8 |
| | 600 | $CO_2$ (ppm) | 3310 | 4000 |
| | | $O_2$ (%) | 20.2 | 20 |
| | | VOC (ppm) | 0.7 | 0.7 |
| 50-24822 | 25 | $CO_2$ (ppm) | 10,600 | 18,300 |
| | | $O_2$ (%) | 19.8 | 20 |
| | | VOC (ppm)[c] | 0.9 | 0.9 |
| | 142 | $CO_2$ (ppm) | 7720 | 14,800 |
| | | $O_2$ (%) | 19.9 | 19.6 |
| | | VOC (ppm) | 5.1 | 2.8 |
| | 235 | $CO_2$ (ppm) | 6880 | 11,200 |
| | | $O_2$ (%) | 19.9 | 19.6 |
| | | VOC (ppm) | 8.5 | 5 |
| | 351 | $CO_2$ (ppm) | 5410 | 7800 |
| | | $O_2$ (%) | 20 | 19.8 |
| | | VOC (ppm) | 5 | 1.8 |
| | 450 | $CO_2$ (ppm) | 3930 | 5900 |
| | | $O_2$ (%) | 20.1 | 20 |
| | | VOC (ppm) | 2.5 | 1.4 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-603061 | 25 | $CO_2$ (ppm) | 38,600 | 49,999 |
| | | $O_2$ (%) | 16.5 | 14.6 |
| | | VOC (ppm) | 0 | 0.3 |
| | 128 | $CO_2$ (ppm) | 24,500 | 38,900 |
| | | $O_2$ (%) | 18.6 | 17.8 |
| | | VOC (ppm) | 0.7 | 0.6 |
| | 228 | $CO_2$ (ppm) | 9140 | 19,600 |
| | | $O_2$ (%) | 19.9 | 18.9 |
| | | VOC (ppm) | 0.9 | 0.8 |
| | 347 | $CO_2$ (ppm) | 5480 | 10,200 |
| | | $O_2$ (%) | 20.1 | 19.5 |
| | | VOC (ppm) | 0.2 | 0.4 |
| | 450 | $CO_2$ (ppm) | 3880 | 6200 |
| | | $O_2$ (%) | 20.3 | 19.7 |
| | | VOC (ppm) | 0 | 0.3 |
| 50-603062 | 122 | $CO_2$ (ppm) | 7020 | 11,400 |
| | | $O_2$ (%) | 20.2 | 20 |
| | | VOC (ppm) | 1.3 | 1.3 |
| | 217 | $CO_2$ (ppm) | 7160 | 9500 |
| | | $O_2$ (%) | 20 | 19.8 |
| | | VOC (ppm) | 1.8 | 0.9 |
| | 337 | $CO_2$ (ppm) | 4550 | 6400 |
| | | $O_2$ (%) | 20.2 | 19.9 |
| | | VOC (ppm) | 0.5 | 0.4 |
| | 450 | $CO_2$ (ppm) | 3750 | 4800 |
| | | $O_2$ (%) | 20.3 | 19.9 |
| | | VOC (ppm) | 0 | 0.3 |
| 50-603063 | 25 | $CO_2$ (ppm) | 8700 | 36,300 |
| | | $O_2$ (%) | 20 | 17.7 |
| | | VOC (ppm) | 0 | 0.3 |
| | 128 | $CO_2$ (ppm) | 10,500 | 29,000 |
| | | $O_2$ (%) | 19.7 | 18.8 |
| | | VOC (ppm) | 1.7 | 0.7 |
| | 228 | $CO_2$ (ppm) | 10,400 | 22,400 |
| | | $O_2$ (%) | 19.7 | 18.9 |
| | | VOC (ppm) | 5.8 | 3 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-603063 (cont.) | 347 | $CO_2$ (ppm) | 5200 | 11,900 |
| | | $O_2$ (%) | 20 | 19.6 |
| | | VOC (ppm) | 3.9 | 2.1 |
| | 450 | $CO_2$ (ppm) | 5760 | 8300 |
| | | $O_2$ (%) | 19.8 | 19.6 |
| | | VOC (ppm) | 2.9 | 1.3 |
| 50-603064 | 113 | $CO_2$ (ppm) | 10,000 | 16,800 |
| | | $O_2$ (%) | 20.1 | 19.5 |
| | | VOC (ppm) | 6.1 | 2.6 |
| | 214 | $CO_2$ (ppm) | 12,000 | 16,800 |
| | | $O_2$ (%) | 19.7 | 19.5 |
| | | VOC (ppm) | 11.3 | 3.6 |
| | 332 | $CO_2$ (ppm) | 7860 | 10,900 |
| | | $O_2$ (%) | 19.9 | 19.5 |
| | | VOC (ppm) | 4.5 | 0.5 |
| | 500 | $CO_2$ (ppm) | 4060 | 5600 |
| | | $O_2$ (%) | 20.2 | 19.9 |
| | | VOC (ppm) | 0.5 | 0 |
| 50-603383 | 26 | $CO_2$ (ppm) | 15,400 | 0 |
| | | $O_2$ (%) | 19.1 | 20.9 |
| | | VOC (ppm) | 0.5 | 0 |
| | 139 | $CO_2$ (ppm) | 13,000 | 8700 |
| | | $O_2$ (%) | 19.5 | 18.7 |
| | | VOC (ppm) | 1.3 | 0.3 |
| | 244 | $CO_2$ (ppm) | 9210 | 5400 |
| | | $O_2$ (%) | 19.8 | 20.3 |
| | | VOC (ppm) | 1.5 | 0 |
| | 359 | $CO_2$ (ppm) | 4370 | 2100 |
| | | $O_2$ (%) | 20.1 | 20.5 |
| | | VOC (ppm) | 0.5 | 0 |
| | 450 | $CO_2$ (ppm) | 3130 | 0 |
| | | $O_2$ (%) | 20.2 | 20.9 |
| | | VOC (ppm) | 0.2 | 0 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-603467 | 143 | $CO_2$ (ppm) | 8000 | 13,100 |
| | | $O_2$ (%) | 20 | 19.4 |
| | | VOC (ppm) | 4 | 4.3 |
| | 244 | $CO_2$ (ppm) | 5900 | 13,300 |
| | | $O_2$ (%) | 20.3 | 19.4 |
| | | VOC (ppm) | 4.3 | 4.7 |
| | 360 | $CO_2$ (ppm) | 3350 | 7500 |
| | | $O_2$ (%) | 20.5 | 19.8 |
| | | VOC (ppm) | 0.8 | 8.6 |
| | 500 | $CO_2$ (ppm) | 2840 | 3900 |
| | | $O_2$ (%) | 20.3 | 19.9 |
| | | VOC (ppm) | 1.6 | 4.1 |
| | 600 | $CO_2$ (ppm) | 2120 | 3700 |
| | | $O_2$ (%) | 20.5 | 19.9 |
| | | VOC (ppm) | 0.6 | 3.2 |
| 50-603468 | 142 | $CO_2$ (ppm) | 2460 | 10,000 |
| | | $O_2$ (%) | 20.5 | 19.6 |
| | | VOC (ppm) | 4.5 | 7.8 |
| | 233 | $CO_2$ (ppm) | 4950 | 11,900 |
| | | $O_2$ (%) | 20.2 | 19.4 |
| | | VOC (ppm) | 5.2 | 16.9 |
| | 354 | $CO_2$ (ppm) | 4340 | 8300 |
| | | $O_2$ (%) | 20.2 | 19.7 |
| | | VOC (ppm) | 6.6 | 26.5 |
| | 403 | $CO_2$ (ppm) | 3750 | 6400 |
| | | $O_2$ (%) | 20.4 | 19.7 |
| | | VOC (ppm) | 5.3 | 12.2 |
| 50-603470 | 83 | $CO_2$ (ppm) | 9210 | 13,200 |
| | | $O_2$ (%) | 19.7 | 19.8 |
| | | VOC (ppm) | 3 | 0.1 |
| | 203 | $CO_2$ (ppm) | 8000 | 10,700 |
| | | $O_2$ (%) | 19.8 | 19.7 |
| | | VOC (ppm) | 11.6 | 4.7 |
| | 278 | $CO_2$ (ppm) | 5870 | 11,900 |
| | | $O_2$ (%) | 19.6 | 19.7 |
| | | VOC (ppm) | 14.3 | 7.1 |
| | 351 | $CO_2$ (ppm) | 7580 | 10,900 |
| | | $O_2$ (%) | 19.7 | 19.7 |
| | | VOC (ppm) | 11 | 5.1 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-603470 (cont.) | 450 | $CO_2$ (ppm) | 6040 | 8000 |
| | | $O_2$ (%) | 19.7 | 20 |
| | | VOC (ppm) | 5.5 | 2.6 |
| | 650 | $CO_2$ (ppm) | 2560 | 2900 |
| | | $O_2$ (%) | 20 | 20.2 |
| | | VOC (ppm) | 22.9 | 0 |
| 50-603471 | 90 | $CO_2$ (ppm) | 10,400 | 16,900 |
| | | $O_2$ (%) | 19.6 | 19.4 |
| | | VOC (ppm) | 3 | 0.9 |
| | 209 | $CO_2$ (ppm) | 6950 | 11,400 |
| | | $O_2$ (%) | 20 | 19.6 |
| | | VOC (ppm) | 17.2 | 6.9 |
| | 288 | $CO_2$ (ppm) | 8280 | 12,800 |
| | | $O_2$ (%) | 19.9 | 19.7 |
| | | VOC (ppm) | 18.8 | 8.2 |
| | 360 | $CO_2$ (ppm) | 7580 | 11,800 |
| | | $O_2$ (%) | 19.8 | 19.7 |
| | | VOC (ppm) | 15.9 | 6.3 |
| | 450 | $CO_2$ (ppm) | 4820 | 8400 |
| | | $O_2$ (%) | 19.9 | 19.8 |
| | | VOC (ppm) | 9.3 | 4 |
| | Unknown[c] | $CO_2$ (ppm) | 7860 | 13,200 |
| | | $O_2$ (%) | 19.8 | 19.8 |
| | | VOC (ppm) | 4.6 | 1.5 |
| 50-603472 | 27 | $CO_2$ (ppm) | 5270 | 7300 |
| | | $O_2$ (%) | 20.3 | 20.1 |
| | | VOC (ppm) | 0.4 | 2 |
| | 146 | $CO_2$ (ppm) | 5410 | 7700 |
| | | $O_2$ (%) | 20.2 | 20 |
| | | VOC (ppm) | 3 | 8.9 |
| | 292 | $CO_2$ (ppm) | 8000 | 2100 |
| | | $O_2$ (%) | 19.8 | 20.9 |
| | | VOC (ppm) | 9.59.8 | 6 |
| | 364 | $CO_2$ (ppm) | 6390 | 8300 |
| | | $O_2$ (%) | 19.8 | 19.7 |
| | | VOC (ppm) | 6.6 | 23.3 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-603472 (cont.) | 450 | $CO_2$ (ppm) | 5060 | 1700 |
| | | $O_2$ (%) | 19.8 | 20.9 |
| | | VOC (ppm) | 3.2 | 3.2 |
| 50-603503 | 133 | $CO_2$ (ppm) | 3880 | 11,800 |
| | | $O_2$ (%) | 20.9 | 20.3 |
| | | VOC (ppm) | 0 | 0 |
| | 237 | $CO_2$ (ppm) | 4020 | 9100 |
| | | $O_2$ (%) | 20.4 | 20.3 |
| | | VOC (ppm) | 1.2 | 1.8 |
| | 347 | $CO_2$ (ppm) | 2840 | 6400 |
| | | $O_2$ (%) | 20.4 | 20.3 |
| | | VOC (ppm) | 1 | 1.7 |
| | 450 | $CO_2$ (ppm) | 2150 | 4500 |
| | | $O_2$ (%) | 20.4 | 20.3 |
| | | VOC (ppm) | 0.5 | 0.4 |
| 50-613182 | 500 | $CO_2$ (ppm) | 3400 | 4100 |
| | | $O_2$ (%) | 20 | 19.9 |
| | | VOC (ppm) | 1 | 3 |
| | 632.5 | $CO_2$ (ppm) | 2090 | 300 |
| | | $O_2$ (%) | 20.3 | 20.9 |
| | | VOC (ppm) | 0 | 0.7 |
| 50-613183 | 550 | $CO_2$ (ppm) | 3750 | 5900 |
| | | $O_2$ (%) | 19.8 | 19.9 |
| | | VOC (ppm) | 1.1 | 1.7 |
| | 642.5 | $CO_2$ (ppm) | 3080 | 4800 |
| | | $O_2$ (%) | 20.1 | 20.3 |
| | | VOC (ppm) | 0 | 0 |
| 50-613184 | 500 | $CO_2$ (ppm) | 2390 | 3600 |
| | | $O_2$ (%) | 20.3 | 19.9 |
| | | VOC (ppm) | 1.3 | 5.3 |
| | 600 | $CO_2$ (ppm) | 1060 | 2800 |
| | | $O_2$ (%) | 20.2 | 20.2 |
| | | VOC (ppm) | 0.1 | 2.3 |
| | 664.5 | $CO_2$ (ppm) | 1900 | 2200 |
| | | $O_2$ (%) | 20.2 | 20.3 |
| | | VOC (ppm) | 0 | 1.7 |

**Table B-1.0-3 (continued)**

| Borehole ID | Sampling Port Depth (ft bgs[a]) | Analyte | Result First Round | Result Second Round |
|---|---|---|---|---|
| 50-613185 | 145 | $CO_2$ (ppm) | 8140 | 29,700 |
| | | $O_2$ (%) | 20 | 18.7 |
| | | VOC (ppm) | 0.4 | 0.8 |
| | 235 | $CO_2$ (ppm) | 4820 | 13,400 |
| | | $O_2$ (%) | 20.3 | 19.5 |
| | | VOC (ppm) | 1.2 | 3.3 |
| | 350 | $CO_2$ (ppm) | 2400 | 5900 |
| | | $O_2$ (%) | 20.5 | 20 |
| | | VOC (ppm) | 0.6 | 1.2 |
| | 450 | $CO_2$ (ppm) | 2060 | 4800 |
| | | $O_2$ (%) | 20.9 | 20.2 |
| | | VOC (ppm) | 0.2 | 0 |
| | 600 | $CO_2$ (ppm) | 1780 | 3900 |
| | | $O_2$ (%) | 20.7 | 20.3 |
| | | VOC (ppm) | 0 | 0 |

[a] bgs = Below ground surface.

[b] VOC (ppm) = PID used.

[c] During the two sampling rounds, the depth of two unlabeled ports in borehole 50-603471 was unclear. The ports are known to be at 30 ft and 90 ft and both were sampled, but because the ports were not labeled, it is not possible to assign the data to a specific depth.

# Appendix C

*Analytical Data Management and Evaluation Process*

## C-1.0 INTRODUCTION

This appendix discusses the analytical methods and data-quality review for samples collected during pore-gas sampling activities at Material Disposal Area (MDA) C, Solid Waste Management Unit (SWMU) 50-009, at Technical Area 50 at Los Alamos National Laboratory (LANL or the Laboratory).

Newport News Nuclear BWXT-Los Alamos, LLC (N3B) uses the Environmental Information Management (EIM) database for data management. This is a cloud-based data management platform used for managing sampling events, tracking the packaging and transportation of samples, and storing the resultant data. In addition to N3B, Triad National Security, LLC, and the U.S. Department of Energy Oversight Bureau of the New Mexico Environment Department share EIM for all LANL environmental analytical data. EIM interfaces with Intellus, a fully searchable database available to the public through the Intellus New Mexico website (http://www.intellusnm.com).

The system, written and maintained by Locus Technologies, consists of a cloud-based Structured Query Language server database platform coupled with a web-based user interface. It is a comprehensive sample and data management application, designed to manage the process from sample planning through data review and reporting. It includes modules for sample planning, sample tracking, manual and electronic field data upload, electronic data deliverable (EDD) upload, Automated Data Review (ADR) routines, notification emails, and reporting tools.

Analytical laboratory data packages and EDDs adhere to the requirements specified in N3B's "Exhibit D Scope of Work and Technical Specifications for Off-Site Analytical Laboratory Services."

N3B ensures that reported external analytical laboratory data are of sufficient quality to fulfill their intended purpose, and that the condition of the data is documented so that future users of analytical laboratory results produced for the Los Alamos Legacy Cleanup Contract can use the data. The data collected must have sufficient quality and quantity to support defensible decision-making as described in U.S. Environmental Protection Agency (EPA) "Guidance on Systematic Planning Using the Data Quality Objectives Process, EPA QA/G-4" (https://www.epa.gov/quality/guidance-systematic-planning-using-data-quality-objectives-process-epa-qag-4). The N3B Sample Data Management Program has data quality objectives detailing minimum quality assurance (QA)/quality control (QC) requirements.

Data examination, verification, and validation include application of data qualifiers and reason codes to analytical results, and modification of detection status, based on outcome of specific laboratory QC sample analyses, (e.g., spikes, duplicates, surrogates, method blanks, laboratory control samples, and tracers), holding times, proper preservation, and field QC samples as applicable. The process also includes a best-selection evaluation to determine the best value for multiple analytical results of the same analyte from the same sample. Qualification of 100% of analytical data occurs during verification using the EIM ADR module, and a minimum of 10% of analytical data is also subjected to a more in-depth validation by an N3B chemist.

The entire data validation process includes a description of the reasons for any failure to meet method, procedural, or contractual requirements, and an evaluation of the impact of such failure on the associated data or data set.

During this process, individual sample results are qualified as accepted or rejected. Data that are accepted as per the validation criteria are the following: not detected (U), estimated but not detected (UJ), estimated (J), or detected without data qualification (NQ). Accepted data can then be used as needed, assuming that no problems occurred during the sampling events. Data that are rejected (R) as per the

validation criteria are unusable. In addition, the analytical results can also be further labeled with data validation reason codes that explain the reason for the qualification. (See the data qualifier definitions in Appendix A.)

The analytical data, instrument printouts, and data validation reports are provided in Appendix E (on DVD included with this document). In addition to the laboratory analytical data, sample collection logs (SCLs) and chain of custody (COC) forms are provided in Appendix E.

N3B data validation is performed externally from the analytical laboratory and end users of the data, and this data validation process applies a defined set of performance-based criteria to analytical data, which may result in qualification of that data. Data validation provides a level of assurance, based on this technical evaluation, of the data quality. N3B validation of chemistry data includes a technical review of the analytical data package, covering the evaluation of both field and laboratory QA/QC samples, the identification and quantitation of analytes, and the effect of QA/QC deficiencies on analytical data, as well as other factors affecting the data quality.

## C-2.0 ANALYTICAL DATA

Data evaluated in this report were collected during semiannual pore-gas sampling activities at MDA C. All investigation samples were submitted to and analyzed by approved off-site analytical laboratories. These data are determined to be of sufficient quality for decision-making purposes and have been reviewed and revalidated to current QA standards.

In the first sampling round, a total of 97 samples (80 regular samples, 8 field blanks [FBs], and 8 field duplicates [FDs]) were collected and analyzed. In the second round, a total of 96 samples (80 regular samples, 8 FBs, and 8 FDs) were collected and analyzed for VOCs, and 98 samples (80 regular samples,7 FBs, and 11 FDs) were collected and analyzed for tritium The analytical methods used are listed in Table C-2.0-1.

Tables within the main text of this periodic monitoring report summarize the analytical results from all samples collected at MDA C. All VOCs and tritium analytical results are provided in Appendix E (on DVD included with this document). Analytical, chemical, and radiological data presented in this MDA C pore-gas sampling report can also be found in the public Intellus database at http://www.intellusnm.com.

### C-2.1 Procedures, Definitions, and Methods Used

Sampling and data validation were conducted using standard operating procedures (SOPs) and other documents that are part of N3B's comprehensive QA/QC program. Procedures and other documents include the most current version of the following:

- N3B-SOP-ER-2008, "Sampling Subsurface Vapor"
- N3B-SOP-ER-10093 "Sample Control and Field Documentation"
- N3B-SOP-ER-10094 "Sample Shipping and Receiving by the N3B Sample Management Office"
- N3B-ER-AP-20309, "Validation of Volatile Organic Compound Analytical Data"
- N3B-ER-AP-20314, "Validation of Gamma Spectroscopy, Chemical Separation Alpha Spectrometry, Gas Proportional Counting, and Liquid Scintillation Analytical Data"

After the sampling event is planned using the EIM sample request module, SCLs are created and printed to serve as COC documents and analytical request forms.

The sampling events included collection of FB and FD field QC samples. Detection of analytes in FBs may indicate contamination resulting from sample collection, transportation, or the analytical laboratory processes. Differences in analytical results between an FD and its regular sample may indicate the samples were not uniform or that significant variation in sample collection and/or analysis occurred between the two samples.

The FBs are SUMMA canisters filled with pure nitrogen (99.9%) that are subjected to the same conditions as regular samples. FBs are collected at a minimum frequency of 10% of all VOC samples and 10% of all tritium samples collected during the monitoring event. FBs are collected from locations where the regular samples are collected.

FDs are collected at a rate of 10% of all VOC samples and 10% of all tritium samples collected during the monitoring event. FDs are split samples collected from locations where the regular samples are collected.

Following sample collection, sampling personnel delivered the samples and the field collection log to sample management personnel at the N3B Sample Management Office (SMO). An analytical COC was then created, which included the field sample identification number, the date and time of field sample collection, the analytical parameters group code, and the number of bottles for each analytical parameter group. The N3B SMO shipped the samples to the appropriate laboratory for analysis.

The laboratory QA/QC process is defined in the appropriate analytical method (Table C-2.0-1) and N3B's external analytical laboratory statement of work.

The external laboratory uploads the EDD and its corresponding analytical data pdf data package to EIM. The data are then validated both manually and in the EIM autovalidation process, then reviewed by an N3B chemist at the appropriate level, and then fully transferred into EIM.

**Table C-2.0-1**
**Volatile Organic Chemical and**
**Radionuclide Analytical Methods for Samples Collected at SWMU 50-009**

| Analytical Method | Analytical Description | Analytical Suite |
|---|---|---|
| **VOCs** | | |
| EPA Air Method Toxic Organics (TO15) | Determination of VOCs in air collected in specially prepared canisters and analyzed by gas chromatography/mass spectrometry | VOCs |
| **Radionuclides** | | |
| EPA 906.0 | Tritium in water (liquid scintillation) | Tritium |

# Appendix D

*Volatile Organic Compound Plume Trend Analysis*

## D-1.0 INTRODUCTION

Trichloroethene (TCE), also known as trichloroethylene, is the largest single contributor to plume mass at Material Disposal Area (MDA) C and is used as representative for visualization purposes. In Figure D-1.0-2, 2019 TCE concentration contours at MDA C are shown in both map and cross-section. Of the 80 ports in the sample plan, TCE was measured successfully in 80 ports in the first round of FY 2019 and in the second round.

Table D-1.0-1 lists all 18 boreholes analyzed in this appendix, with the final column showing if a given borehole (in map view) is in the core of the plume (4 boreholes), intermediate part of the plume (8 boreholes), or outer edge of the plume (6 boreholes). The core of the plume is defined as being in the highest concentration region (red in Figure D-1.0-2), while the outer-edge boreholes are in the blue region. Data from these three regions are broken out in separate sections of this appendix. In sections D-2.0 through D-4.0 (plume core, plume intermediate, plume outer-edge), data from each borehole are presented first with a plot of TCE concentrations with depth and sample times, followed by a selection of histograms at different depths showing how total VOC concentration and the TCE fraction of the total vary over time.

All plots showing TCE concentration also include a dashed line that represents the Tier I groundwater screening level of 2020 µg/m$^3$. On the TCE-versus-depth plots, this is a vertical dashed red line. On the histograms of TCE and total VOC, this is a horizontal red dashed line.

Finally, in section D-5.0, TCE concentration trends from MDA C monitoring activities are discussed. Volatile organic compound (VOC) trends for TCE from FY 2010 through FY 2019 show that VOC concentrations at MDA C are consistent with a diffusive plume. Concentrations are increasing slowly at the edges of the plume, both laterally and at depth. Concentrations in the center of the plume peak at depths of approximately 200–350 ft bgs for a given well and are considerably deeper than possible source areas and appear to be either stable or decreasing slowly with time. Concentrations in the source area show no indication of significant continued releases of VOCs.

## D-2.0 PLUME CORE BOREHOLE DATA

The trend analysis begins with a discussion of four boreholes in the core of the VOC plume (map view red area on Figure D-1.0-2) with measurements to 650 ft bgs (50-24813, 50-603470, 50-603471, and 50-613183). Data from boreholes 50-24813 (Figures D-2.0-1 through D-2.0-6), 50-603470 (Figures D-2.0-7 through D-2.0-10), 50-603471 (Figures D-2.0-11 through D-2.0-13), and 50-613183 (Figures D-2.0-14 through D-2.0-16) share several common aspects:

- Shallow ports (less than 100 ft bgs) continue to drop in concentration and show no evidence of continued leakage in the source region.
- The highest concentrations of TCE (Figures D-2.0-1, D-2.0-7, and D-2.0-11) are on the order of 50,000 µg/m$^3$ (up to over 100,000 µg/m$^3$).
- The peak concentrations measured are consistently at a depth between 200 and 300 ft bgs.
- The concentrations at depths showing total VOC greater than 10,000 µg/m$^3$ are not showing marked increases with time, and in many cases are beginning to show decreases (Figures D-2.0-2, D-2.0-3, D-2.0-8, D-2.0-9, D-2.0-12, and D-2.0-13). Figures D-2.0-4 and D-2.0-13 show concentrations at a depth of 450 ft bgs, which is below the peak in boreholes 50-24813 and 50-603471 respectively. In both these sets of data, the histograms show

variability in the range of 20,000 to 40,000 ppmv. While there is a clear trend in borehole 50-603471 at 450 ft bgs toward lower concentrations with time, this is not seen at 450 ft bgs in borehole 50-24813 where concentrations show a minimum total VOC in April 2016 of near 20,000 µg/m$^3$ followed by increases to between 35,000 and 40,000 µg/m$^3$ for all subsequent measurements.

- The deepest ports in the map-view center of the plume at depths of 650 ft bgs, with concentrations in the 5000–12,000 µg/m$^3$ total VOC range, show increasing concentrations with time (Figures D-2.0-5, D-2.0-10, D-2.0-15, and D-2.0-16).
- Data from borehole 50-603061, and many measurements from deep in the plume, show very low TCE/total VOC ratios, suggesting a separate plume that has reached the top of the Tschicoma dacite (Tvt 2) along a pathway near borehole 50-603061 and has then spread laterally.

### D-2.1 Borehole 50-24813

The highest concentrations in borehole 50-24813 can be seen at a depth of 241 ft in Figures D-2.0-1 (TCE) and D-2.0-3 (total VOC).

### D-2.2 Borehole 50-603470

Borehole 50-603470, located at the southeast corner of Pit 5 (Figure D-1.0-1), is in the core of the VOC plume, with some of the highest concentrations of TCE found at the site. Figure D-2.0-7 shows that concentrations of TCE reach a maximum in the borehole at 200–300 ft bgs. At this depth range, concentrations have dropped from over 80,000 µg/m$^3$ in 2011 to approximately 50,000 µg/m$^3$ in the most recent sampling rounds. Total VOCs in this borehole (Figures D-2.0-8 to D-2.0-10) show a decrease with time at both 83 and 278 ft bgs, while at 650 ft bgs there is a tentative trend toward higher values of total VOCs. At this deepest port, the ratios of TCE/total VOCs are quite low through time, consistent with deep values throughout the plume and also consistent with ratios found in borehole 50-603061. Values of TCE in the deepest port are well below the Tier I SL of 2020 µg/m$^3$.

### D-2.3 Boreholes 50-603471 and 50-613183

Borehole 50-603471 is centrally located in the core of the plume between Pit 4 and Pit 5 (Figure D-1.0-1). This borehole also shows the highest concentrations at 200–300 ft bgs, with a value of TCE over 100,000 µg/m$^3$ in 2011 (Figure D-2.0-11). Subsequent measurements show a trend toward lower peak values of TCE, with the latest measurements on the order of 50,000 µg/m$^3$.

Total VOCs in the high-concentration region (288 ft bgs) of this borehole are also trending downward through time, with high ratios of TCE/total VOCs that are consistent with the bulk of observations at all but the deepest depths and borehole 603061 (Figure D-2.0-12). At the deepest port (450 ft bgs) there is a clear trend toward both lower TCE and total VOC concentration with time (Figure D-2.0-13). Borehole 50-613183 is located within 10 ft of borehole 50-603471 and serves as an extension to greater depths. Concentrations of TCE at borehole 50-613183 (Figure D-2.0-14) appear to be nearly stable through time at 642.5 ft bgs, while increases in concentrations are seen at 550 ft bgs. Ratios of TCE/total VOCs are lower in both ports of borehole 50-613183, with very little TCE present in the deepest 642.5 ft port (Figures D-2.0-15 and D-2.0-16).

## D-3.0 PLUME INTERMEDIATE BOREHOLE DATA

Data from plume intermediate boreholes (50-24822, 50-603063, 50-603064, 50-603467, 50-603468, 50-603472, 50-613182, and 50-613184) are shown in Figures D-3.0-1 through D-3.0-25.

The plume intermediate boreholes share characteristics with the plume core boreholes, including the following:

- Shallow ports (less than 100 ft bgs) continue to drop in concentration and show no evidence of continued leakage in the source region.
- Maximum concentration values for TCE are on the order of 30,000 to 50,000 µg/m$^3$.
- Maximum concentrations are at depths between 200 and 250 ft bgs.
- Little change has been observed in regions having concentrations over 10,000 µg/m$^3$, and there are indications that these regions are beginning to drop in concentration (Figures D-3.0-3, D-3.0-16, and D-3.0-18).
- Increasing concentrations have been observed in deep ports having concentrations less than 10,000 µg/m$^3$ (Figures D-3.0-9, D-3.0-21, D-3.0-22, D-3.0-24, and D-3.0-25).
- Data from borehole 50-603467 at 500 and 600 ft bgs do not show a clear trend; however, the final bar on the histogram is suspect as all data points from January 2020 are well below previous measured values.

### D-3.1 Borehole 50-24822

October 2017 data from this borehole are suspect because of the one-time shift of the plume maximum from 235 ft bgs to 351 ft bgs.

### D-3.2 Borehole 50-603063

This borehole shows a tentative increase in concentrations from diffusion moving mass from the bulge at 228 ft bgs downward to 347 ft bgs. Very little evidence of change is seen at 450 ft bgs. October 2017 data from this borehole are suspect because of the one-time shift of the plume maximum from 228 ft bgs to 347 ft bgs. This same shift was seen in borehole 50-24822 on the same sampling round. The anomalous shift also impacts the histograms in Figures D-3.0-4 and D-3.0-5, causing an abrupt spike.

### D-3.3 Borehole 50-603064

This borehole shows a gradual slight decrease in total VOC concentration at 113 ft bgs, consistent with gradual diffusion away from higher concentrations toward lower concentrations (Figure D-3.0-8). At 500 ft bgs, total VOC concentrations appear to be increasing gradually through time (Figure D-3.0-9).

### D-3.4 Borehole 50-603467

Borehole 50-603467 shows concentration reduction with time. January 2020 data are anomalous because they are not following previous data trends, and there is no known reason for the changes. Borehole 50-603467 will continue to be monitored semiannually, and results will be reported in the annual periodic monitoring report.

### D-3.5 Borehole 50-603468

This is a borehole on the south side of the plume with concentrations at 233 and 403 ft bgs showing little obvious trend through time (Figures D-3.0-15 and D-3.0-16). Shallow measurements at 142 ft bgs show a trend toward lower concentrations with time (Figures D-3.0-13 and D-3.0-14).

### D-3.6 Borehole 50-603472

This borehole on the west side of the plume shows little change in concentration with time and only a minor trend to decreasing concentrations at 146 ft bgs (Figure D-3.0-18).

### D-3.7 Borehole 50-613182

This deep borehole, associated with borehole 50-603472, shows a clear trend of total VOC concentrations increasing through time, both at 550 and 632.5 ft bgs (Figures D-3.0-21 and D-3.0-22).

### D-3.8 Borehole 50-613184

This deep borehole shows a trend of total VOC concentrations increasing through time, both at 500 and 664.5 ft bgs (Figures D-3.0-24 and D-3.0-25).

## D-4.0 PLUME OUTER-EDGE BOREHOLE DATA

Data from the boreholes on the outer edge of the plume (50-24784, 50-603061, 50-603062, 50-603383, 50-603503, and 50-613185) are shown in Figures D-4.0-1 through D-4.0-18.

Boreholes on the outer edge of the plume have the following characteristics:

- Total VOC concentrations are generally in the range of 10,000 µg/m$^3$ or less.
- Total VOC concentrations show a trend toward higher concentrations through time, consistent with diffusion from higher concentration areas in the plume towards the plume edges.

### D-4.1 Borehole 50-24784

Deeper ports in this western borehole show gradually increasing total VOC concentrations consistent with diffusion from higher concentration areas in the plume towards the plume edges (Figures D-4.0-2 and D-4.0-3). One outlier point in January 2020 at 155 ft bgs shows little relationship to previous measurements at this depth (Figure D-4.0-1).

### D-4.2 Borehole 50-603061

The deepest port (450 ft bgs) at this northernmost borehole shows increasing VOC concentrations with time (Figure D-4.0-6).

### D-4.3 Borehole 50-603062

Total VOC concentrations in this easternmost borehole are increasing with time at the deepest ports (Figures D-4.0-8 and D-4.0-9).

### D-4.4 Borehole 50-603383

Concentrations of total VOC in this borehole are increasing with time, especially at depth (Figures D-4.0-11 and D-4.0-12).

### D-4.5 Borehole 50-603503

Concentrations of total VOC in this borehole are increasing with time, especially at depth, although the trend is less pronounced at 450 ft bgs (Figures D-4.0-14 and D-4.0-15).

### D-4.6 Borehole 50-613185

Concentrations of total VOC in this southernmost borehole are increasing with time at both 350 and 600 ft bgs (Figures D-4.0-17 and D-4.0-18).

## D-5.0 PLUME TRENDS

Figure D.5.0-1 shows a comparison of the maximum measured vapor-phase TCE concentration at any port during FY 2019 (right panel) to the baseline plume (left panel), which is composed of an average for each sampling port of the TCE concentrations detected in each of the nine quarters between second quarter FY 2010 and second quarter FY 2012. In the source region, from ground surface to approximately 40 ft bgs, a clear decrease in concentration can be seen in borehole 50-24813 when comparing the baseline to the most recent sampling. The cut-off concentration for the outer blue region in these figures is 2020 µg/m$^3$, and the most recent sampling shows that the lateral and vertical extent of this contour has been reduced slightly through time.

In the core of the plume, which is the highest-concentration part of the plume (red in Figure D-5.0-1), concentrations of total VOCs greater than 10,000 µg/m$^3$ are not increasing with time, and in many cases are beginning to decrease (Figures D-2.0-2, D-2.0-3, D-2.0-8, D-2.0-9, D-2.0-12, and D-2.0-13). Figures D-2.0-4 and D-2.0-13 show concentrations at a depth of 450 ft bgs, which is below the peak in boreholes 50-24813 and 50-603471, respectively. In both these sets of data, the histograms show variability in the range of 20,000 to 40,000 µg/m$^3$. While there is a clear trend in borehole 50-603471 at 450 ft bgs toward lower concentrations with time, this is not seen at 450 ft bgs in borehole 50-24813, where concentrations show a minimum total VOC in April 2016 of near 20,000 µg/m$^3$, followed by increases to 35,000–40,000 µg/m$^3$ for all subsequent measurements. Concentrations in wells at the outer lateral edge of the plume generally show small, tentative increases in total VOC and TCE concentrations with time (Figures D-4.0-1 through D-4.0-15). The deepest ports in the map-view center of the plume at depths of 650 ft bgs, with concentrations in the 5000–12,000 µg/m$^3$ total VOC range, show small increases in concentrations with time (Figures D-2.0-5, D-2.0-10, D-2.0-15, and D-2.0-16). Concentrations in the deepest ports in the intermediate and peripheral areas of the plume (500–650 ft bgs) are also showing gradual tentative increases with time, predominantly in total VOC, because TCE at these depths makes up a lower percentage of the total plume (Figures D-2.0-6, D-2.0-10, D-2.0-15, D-2.0-16, D-3.0-9, D-3.0-12, D-3.0-21, D-3.0-22, D-3.0-24, D-3.0-25, D-4.0-18).

In Figure D-5.0-1, the deepest ports (450–650 ft bgs) show very low TCE as a percentage of the total VOC (Figures D-2.0-10, D-2.0-16, D-3.0-22, D-3.0-25, D-4.0-6, D-4.0-9, and D-4.0-18).

Understanding the cause(s) of these very low TCE/total VOC ratios in these locations is a challenge. For the next rounds of measurements in these locations, using higher-precision techniques at the analytical

laboratory may help confirm that some of the detected low concentrations of many VOCs at the 100 µg/m$^3$ level are accurate.

Note that Figure D-4.0-5 shows similar behavior in borehole 50-603061 at 228 ft bgs; however, concentrations in this borehole are high: total VOC concentration in February 2019 was over 40,000 µg/m$^3$ and 1,2,2-trichloro-1,1,2-trifluoroethane in all ports had concentrations of up to 22,976.6 µg/m$^3$ at 228 ft bgs and 22,210.8 µg/m$^3$ at 128 ft bgs. Because the ratio of TCE/total VOC is so low in these locations, it indicates that the plume composition on the north side of MDA C has a source region with a low ratio of TCE/total VOC that has reached the top of the Tshichoma dacite (Tvt 2) along a pathway near borehole 50-603061 and then spread laterally. For comparison, concentrations in the central plume in borehole 50-603470 range from only 100 to 1000 µg/m$^3$ for 1,2,2-trichloro-1,1,2-trifluoroethane while TCE in this borehole ranges from 10,000 to 40,000 µg/m$^3$ for all but the deepest port, where TCE/total VOC is more closely aligned with values from borehole 50-603061.

As with most field data collected by different teams over many years, the data at MDA C show a few cases of odd behaviors that are likely related to data collection and/or laboratory analysis inconsistencies. For example, data from October 2017 in Figure D-3.0-1 and Figure D-3.0-4 show shifts in the depth of peak concentrations that are not persistent. Such sudden shifts in surface data cannot be explained by processes known to be acting on the movement of gas-phase chemicals in the Bandelier tuff (Stauffer et al. 2005, 090537; Stauffer et al. 2011, 255584; Behar et al. 2019, 700854) and are thus most likely explained by issues with data collection and/or analysis.

## D-6.0 CONCLUSIONS

The highest concentration ports in the center of the plume have not changed greatly in 10 years (2010–2020). This means that most of the TCE mass is still present in the upper stratigraphic units (i.e., above the Cerro Toledo interval). The distribution of mass and slow increases at the edge of the plume are consistent with the conceptual model of vapor diffusion. The field screening and monitoring at MDA C are adequate to identify changes in the configuration of the plumes, monitor changes in contaminant concentration distribution, and identify data-gap needs for future modeling or trend analyses.

## D-7.0 REFERENCES

*The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. This information is also included in text citations. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by Newport News Nuclear BWXT-Los Alamos, LLC (N3B) (IDs 700000 and above). IDs are used to locate documents in N3B's Records Management System and in the Master Reference Set. The NMED Hazardous Waste Bureau and N3B maintain copies of the Master Reference Set. The set ensures that NMED has the references to review documents. The set is updated when new references are cited in documents.*

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NMED (New Mexico Environment Department), December 8, 2011. "Approval, Phase III Investigation Report for Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50," New Mexico Environment Department letter to G.J. Rael (DOE-LASO) and M.J. Graham (LANL) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2011, 208797)

Stauffer, P., K. Birdsell, and W. Rice, March 7–11, 2011. "3-D Model Validation in Support of Site Closure, Material Disposal Area L, Los Alamos, NM," Paper 11545, Waste Management 2011 Conference, March 7–11, 2011, Phoenix, AZ. (Stauffer et al. 2011, 255584)

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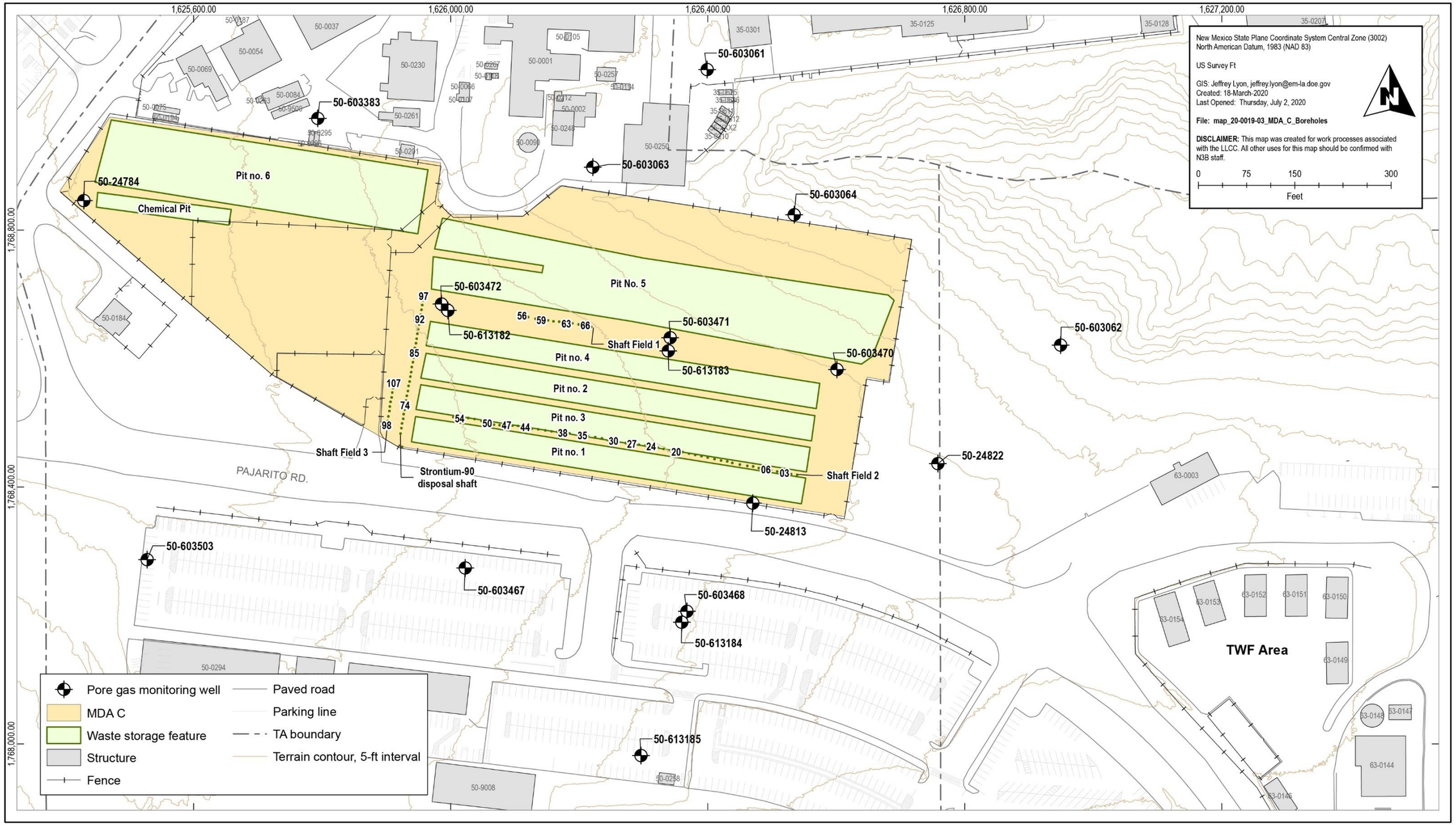



**Figure D-1.0-1 MDA C site map showing borehole locations**

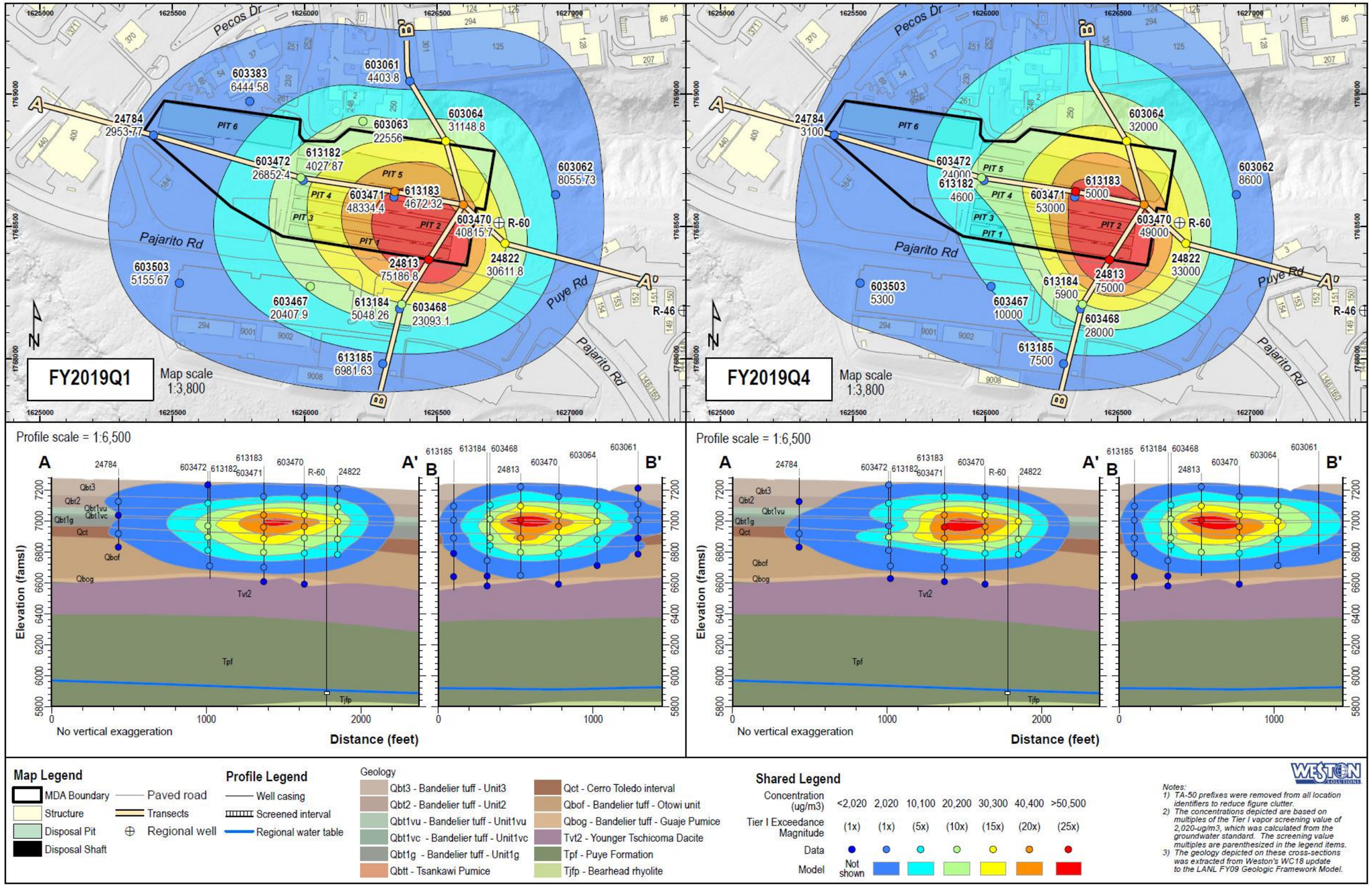
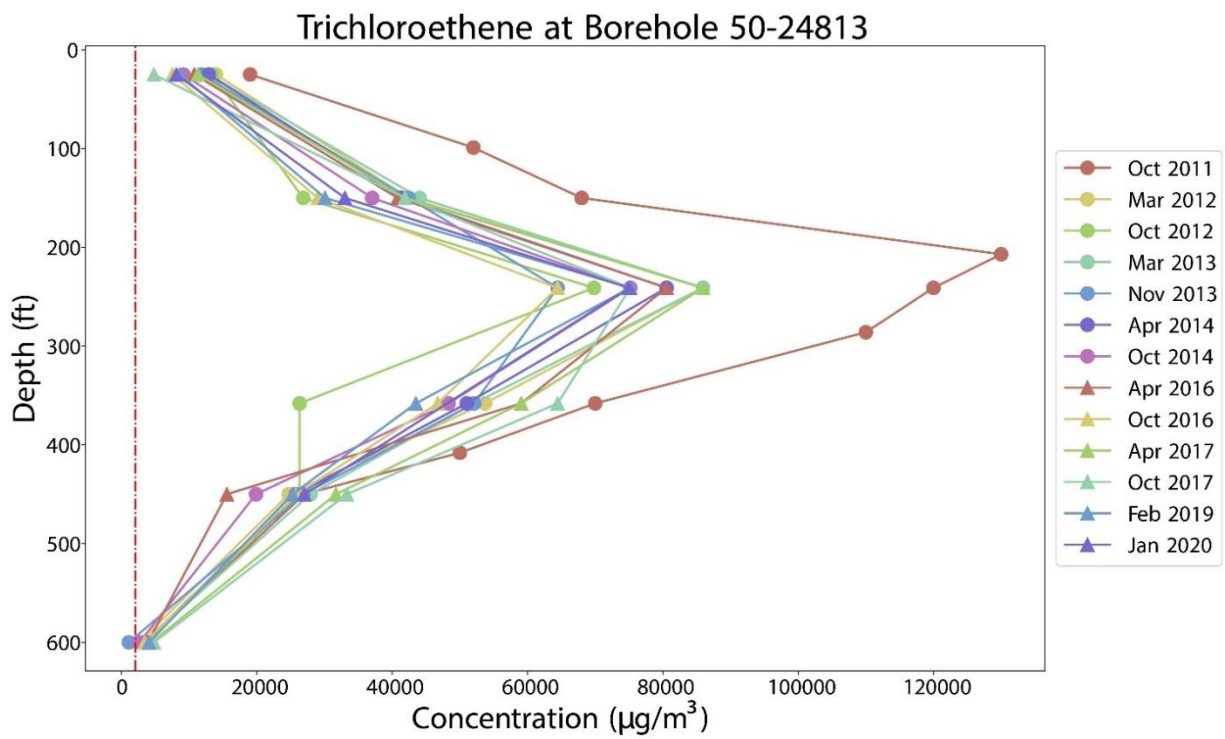
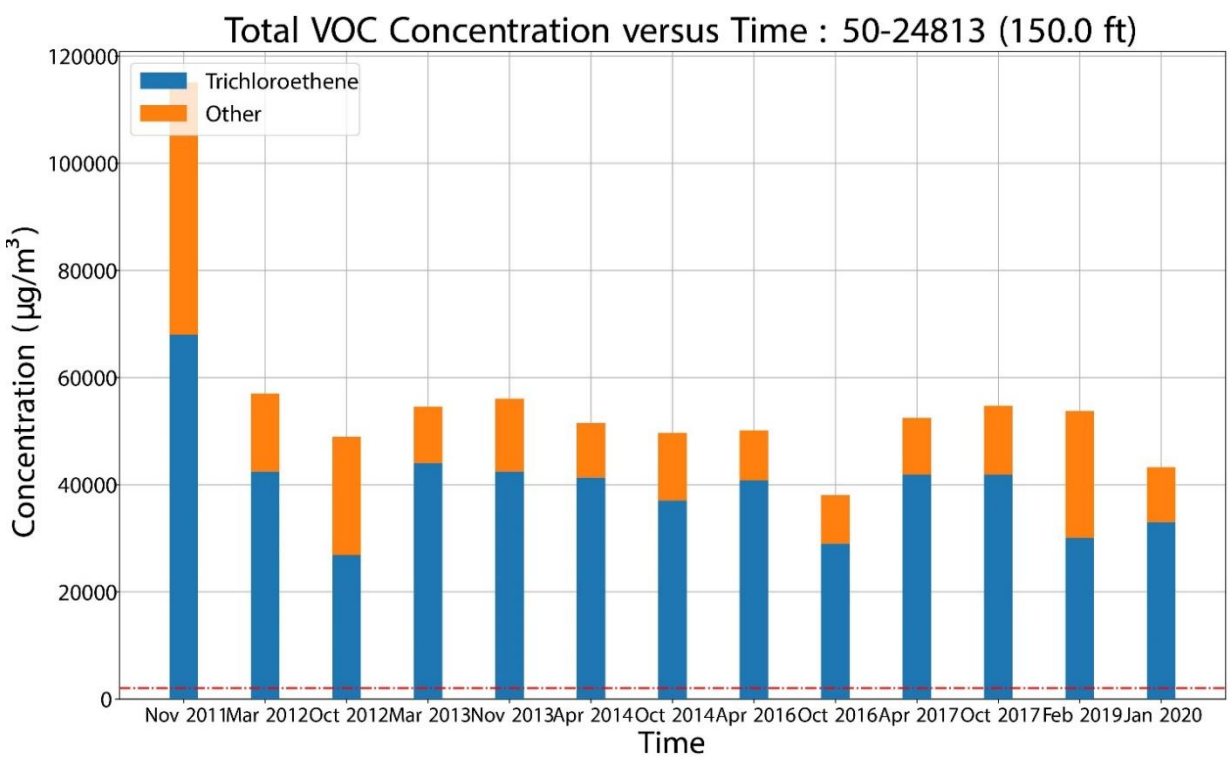



**Figure D-1.0-2** **Lateral and vertical extent of the MDA C TCE plume FY2019. First sampling round shown on the left (Q1, 80 samples) and second sampling round shown on the right (Q4, 59 samples).**



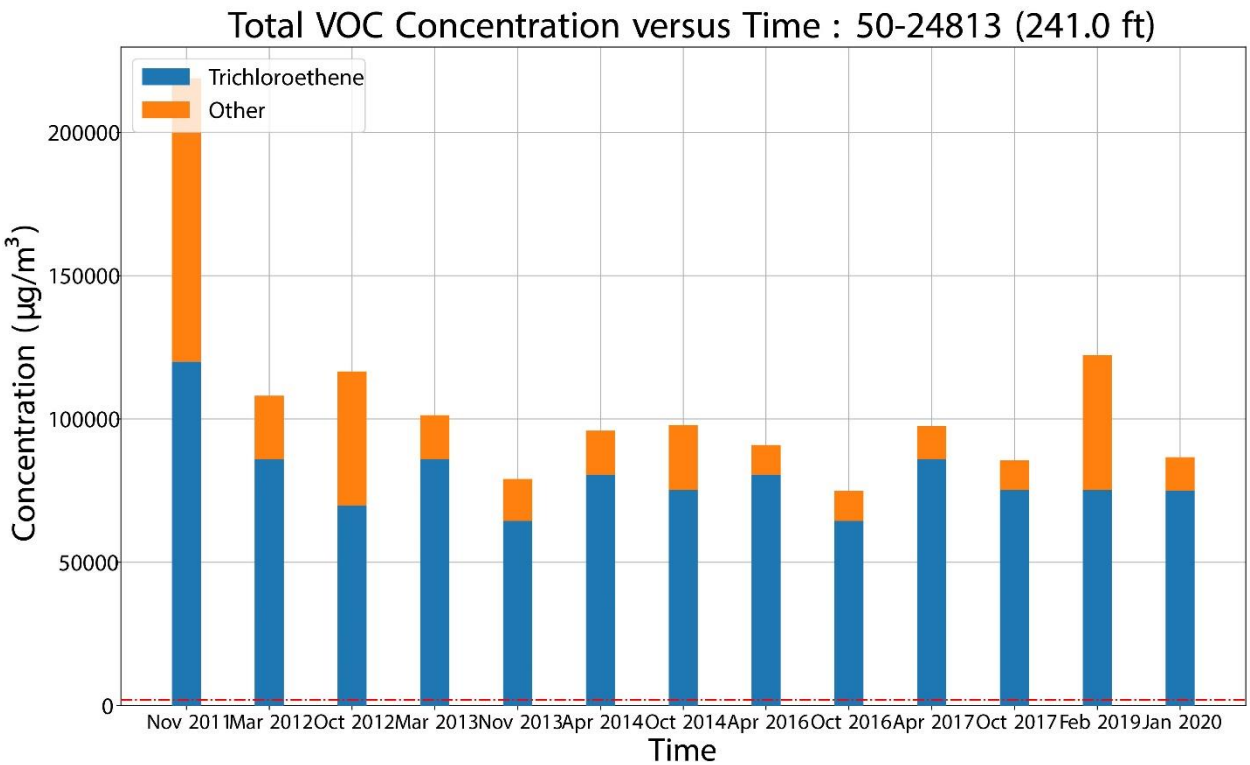

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-1 TCE concentration versus depth and time for borehole 50-24813**



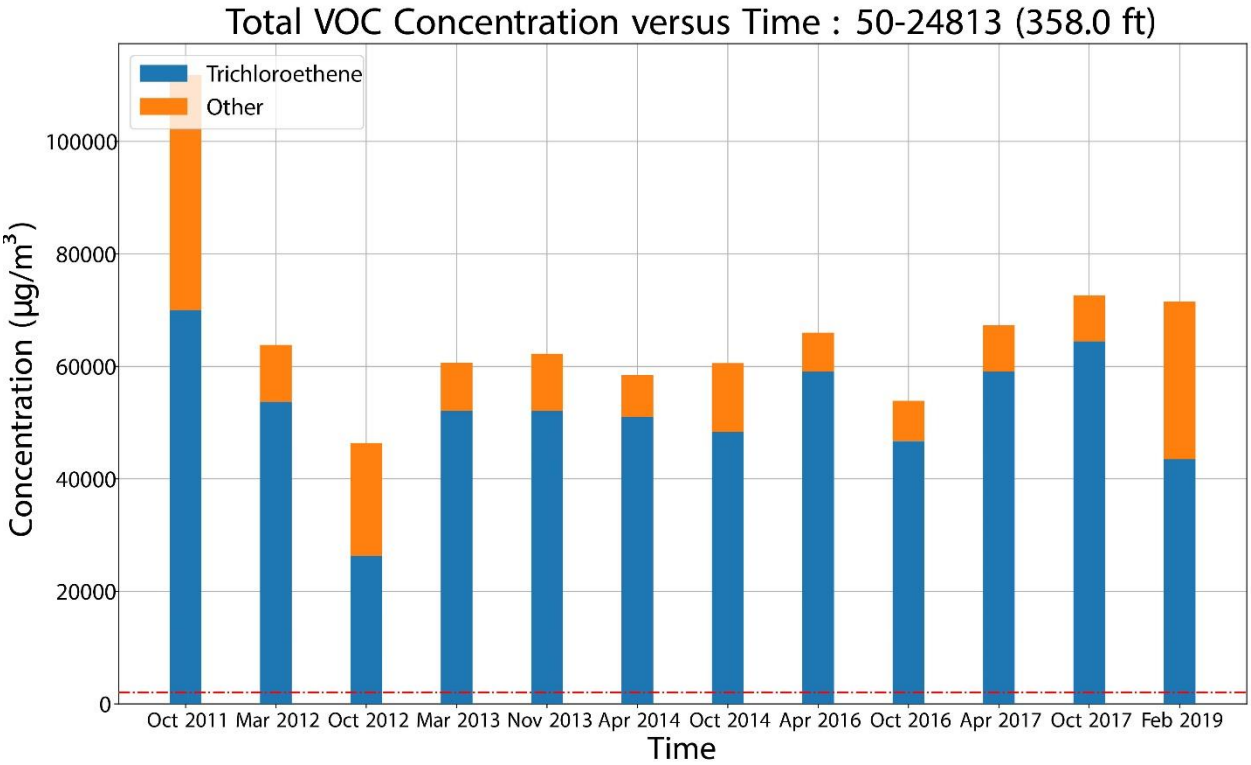

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-2 Total VOC concentration through time at 150 ft bgs for borehole 50-24813**



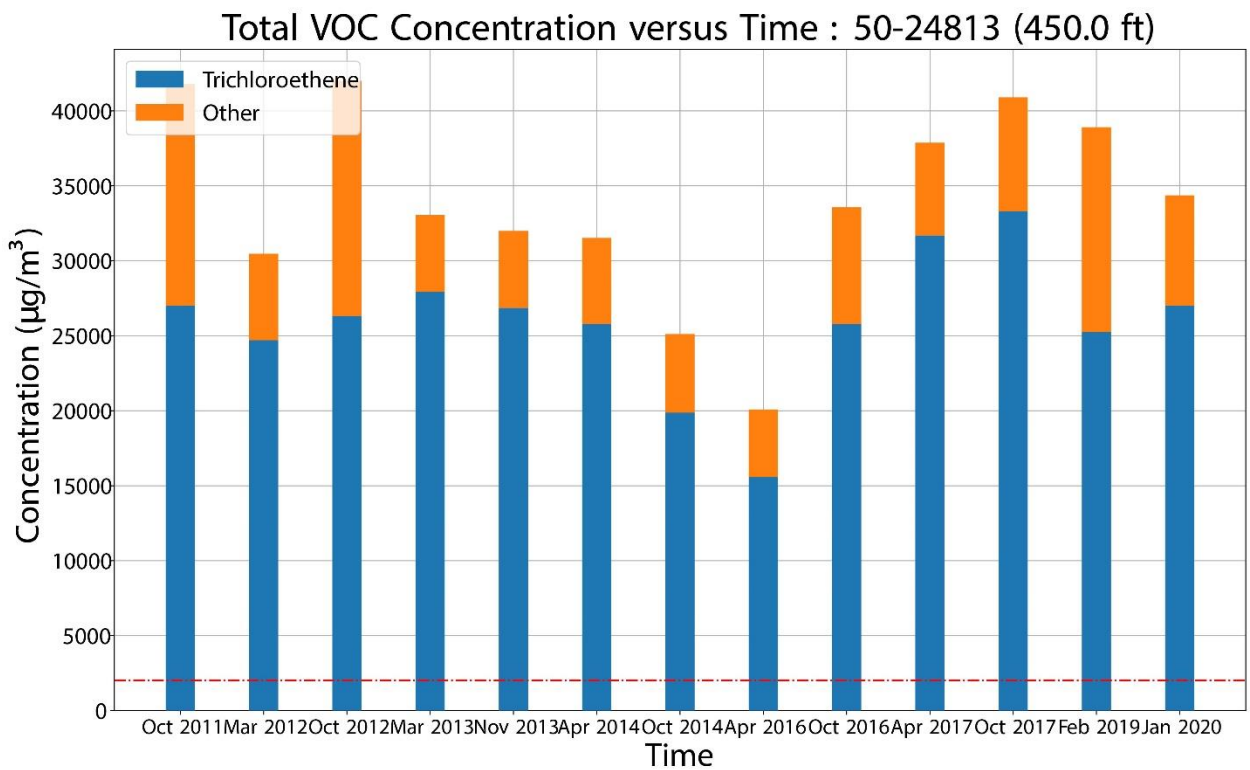

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-3 Total VOC concentration through time at 241 ft bgs for borehole 50-24813**



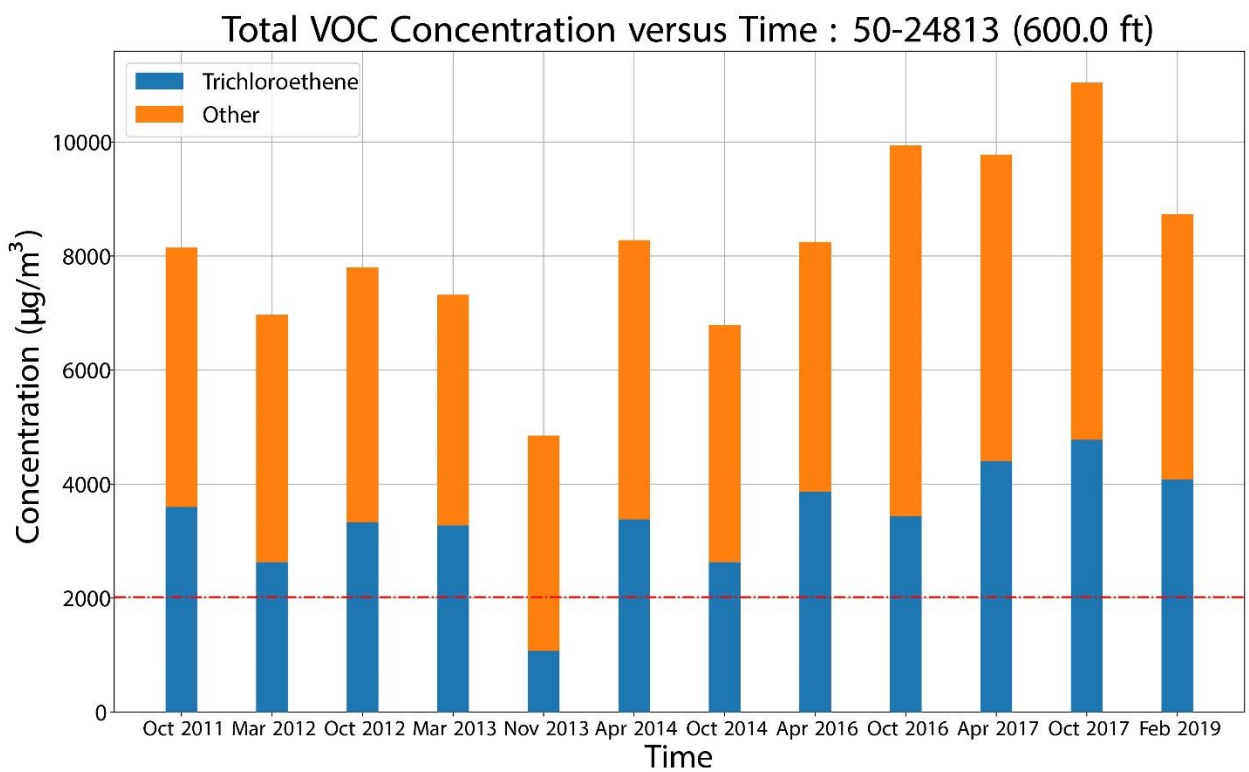

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-4 Total VOC concentration through time at 358 ft bgs for borehole 50-24813**



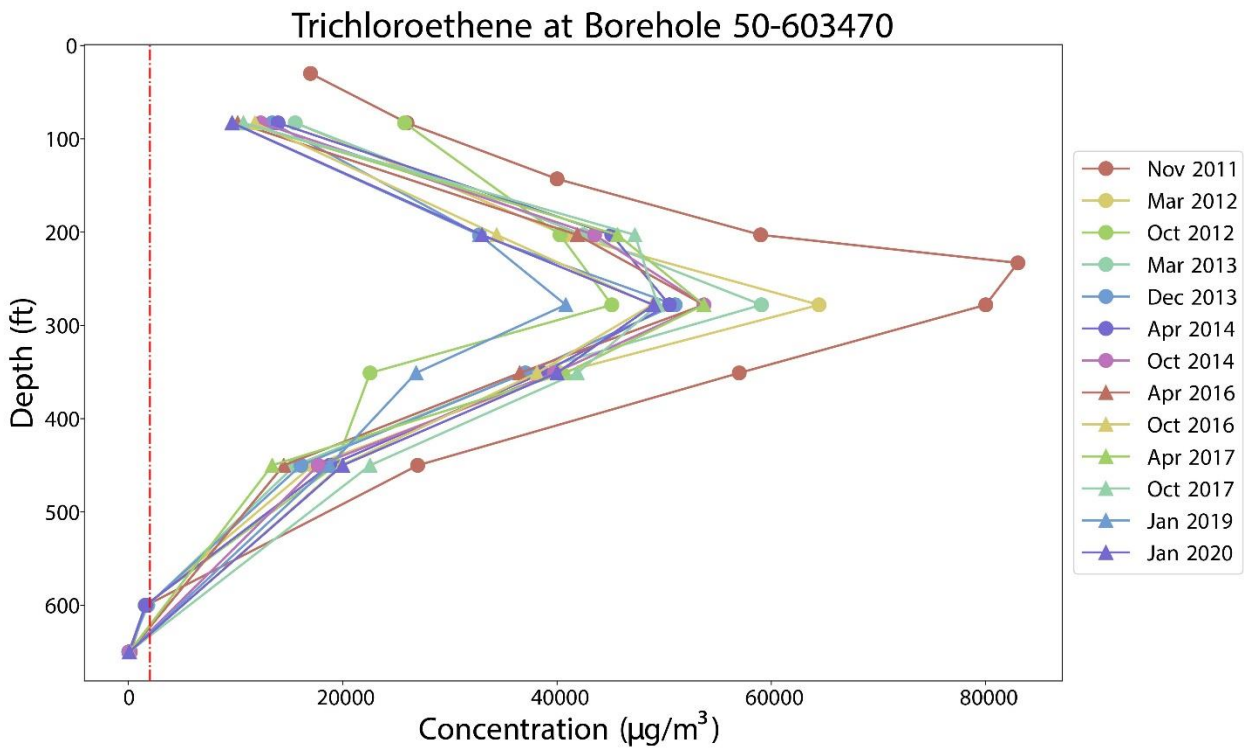

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-5 Total VOC concentration through time at 450 ft bgs for borehole 50-24813**



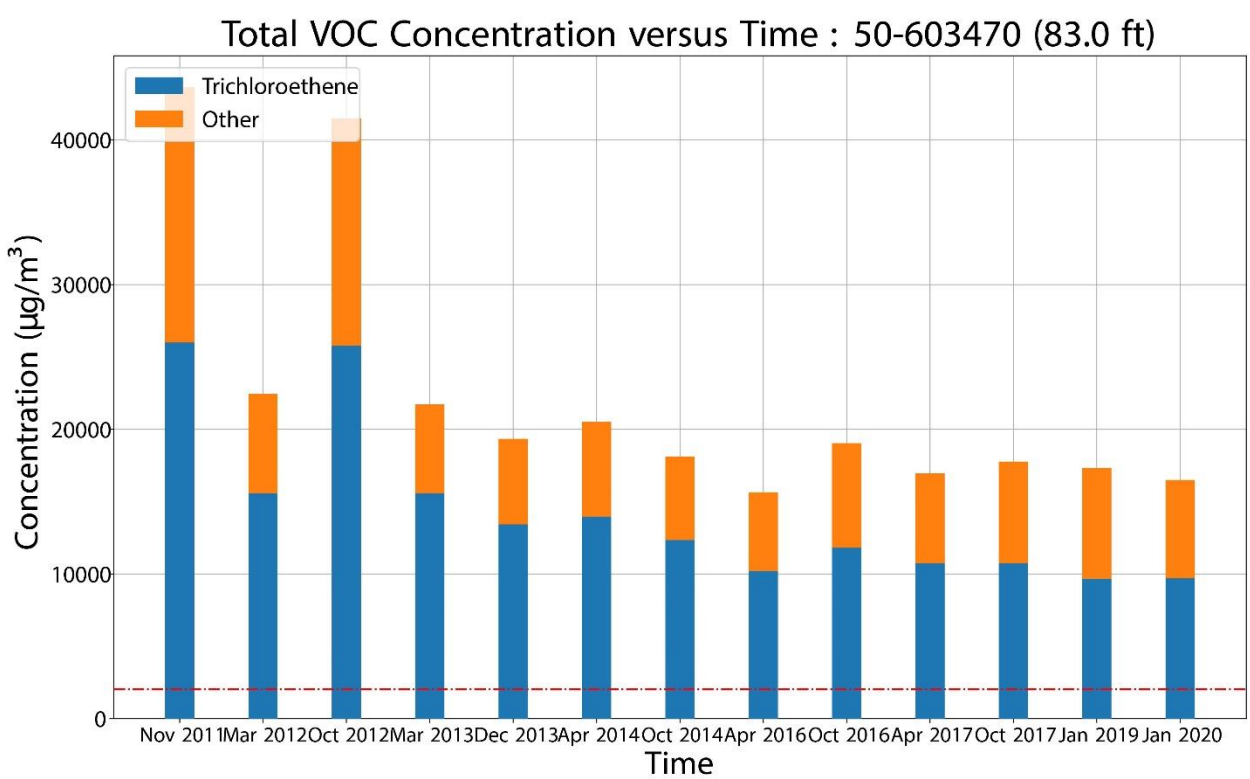

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-6 Total VOC concentration through time at 600 ft bgs for borehole 50-24813**



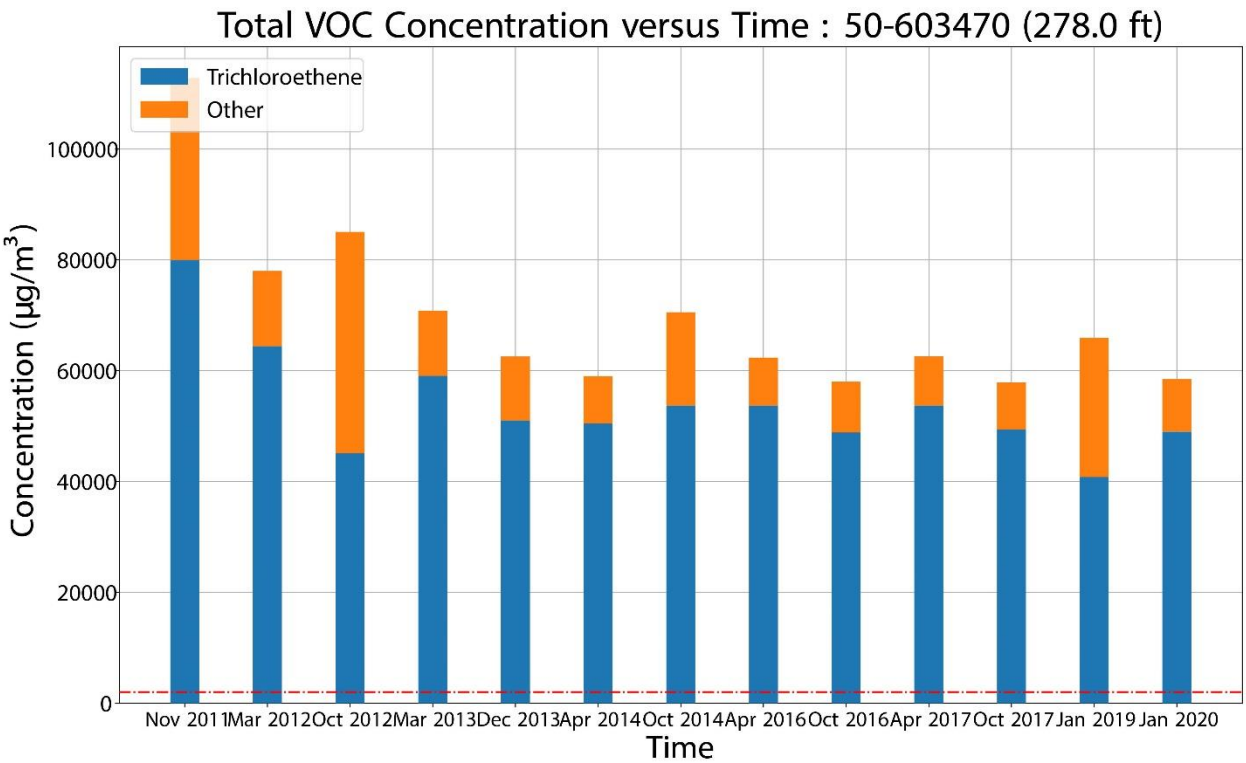

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-7 TCE concentration versus depth and time for borehole 50-603470**



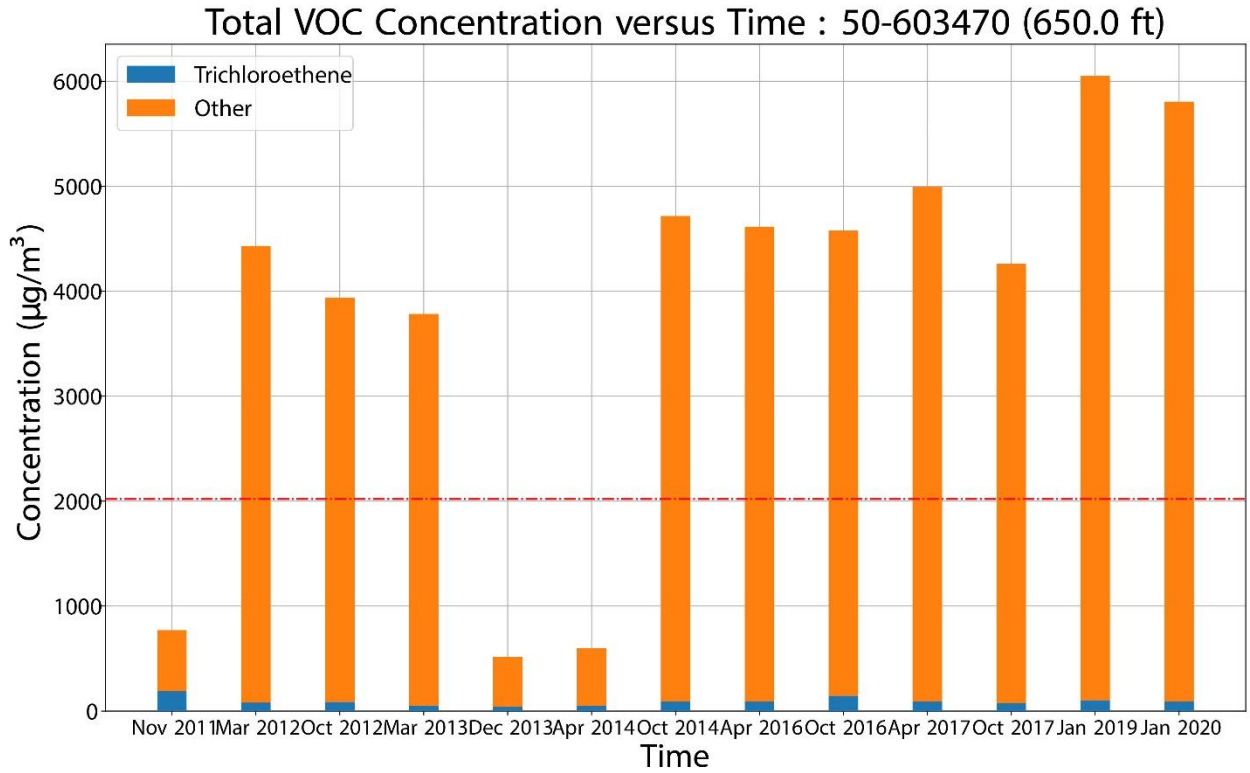

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-8 Total VOC concentration through time at 83 ft bgs for borehole 50-603470**



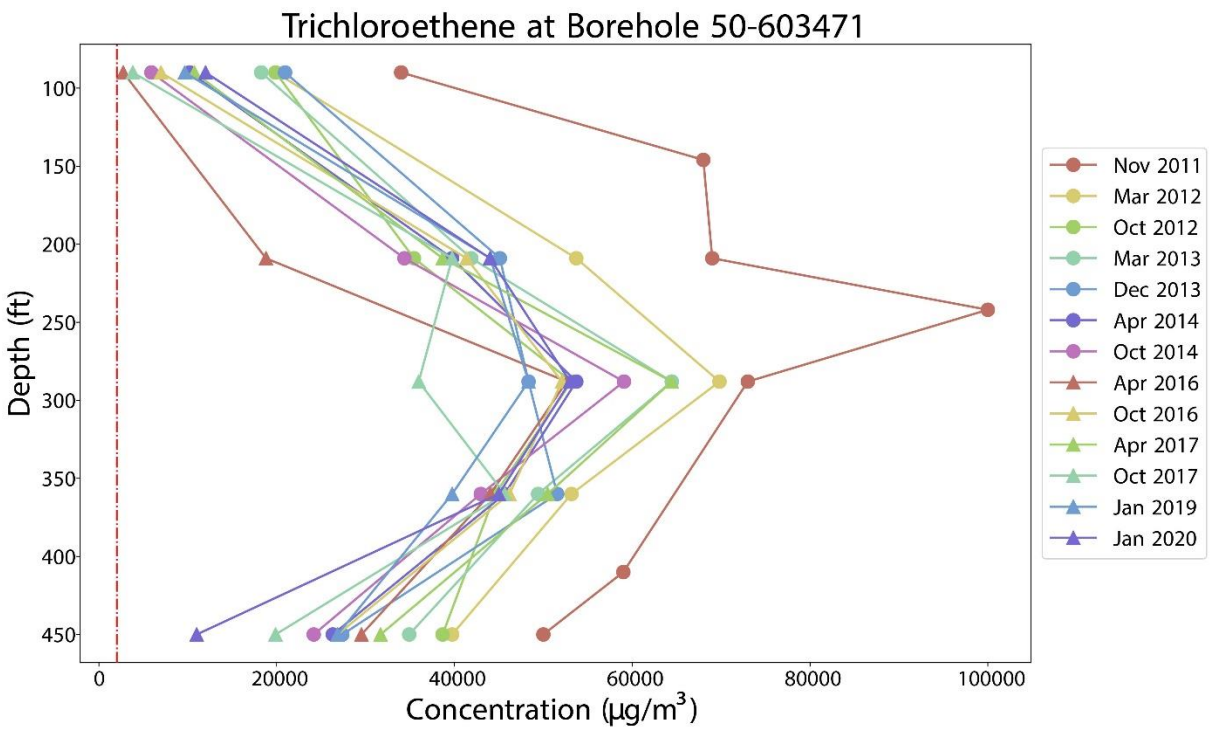

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-9 Total VOC concentration through time at 278 ft bgs for borehole 50-603470**



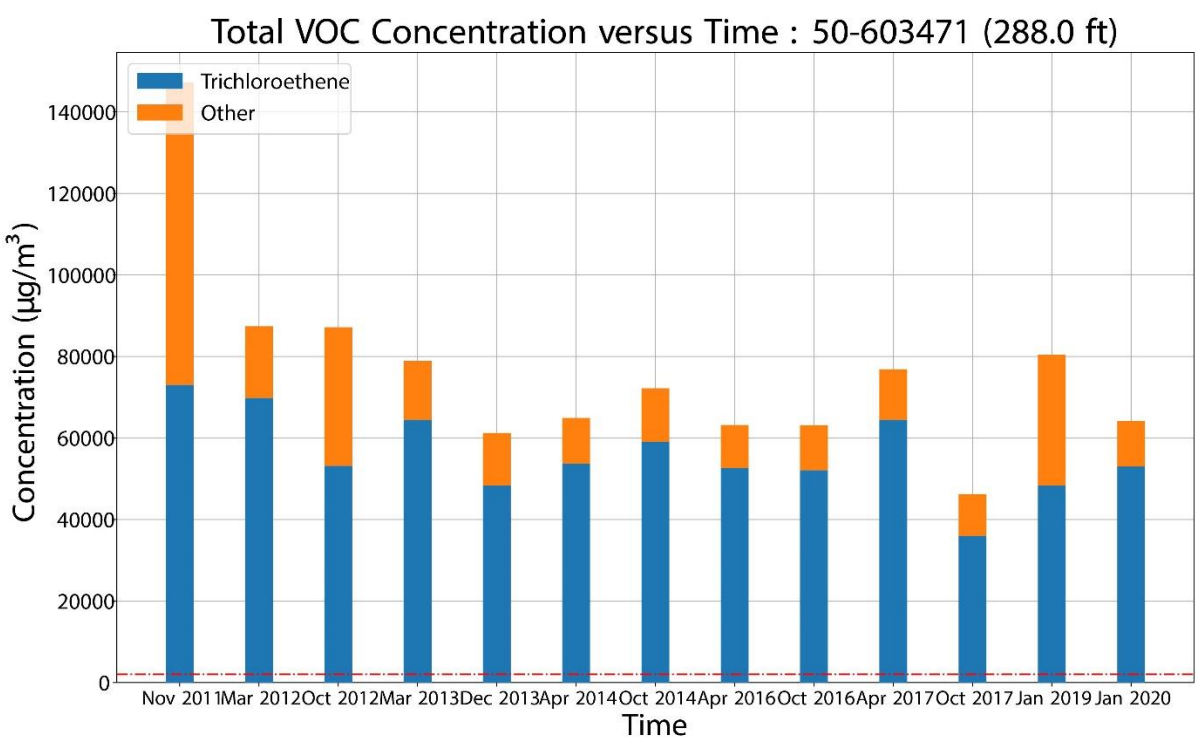

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-10 Total VOC concentration through time at 650 ft bgs for borehole 50-603470**



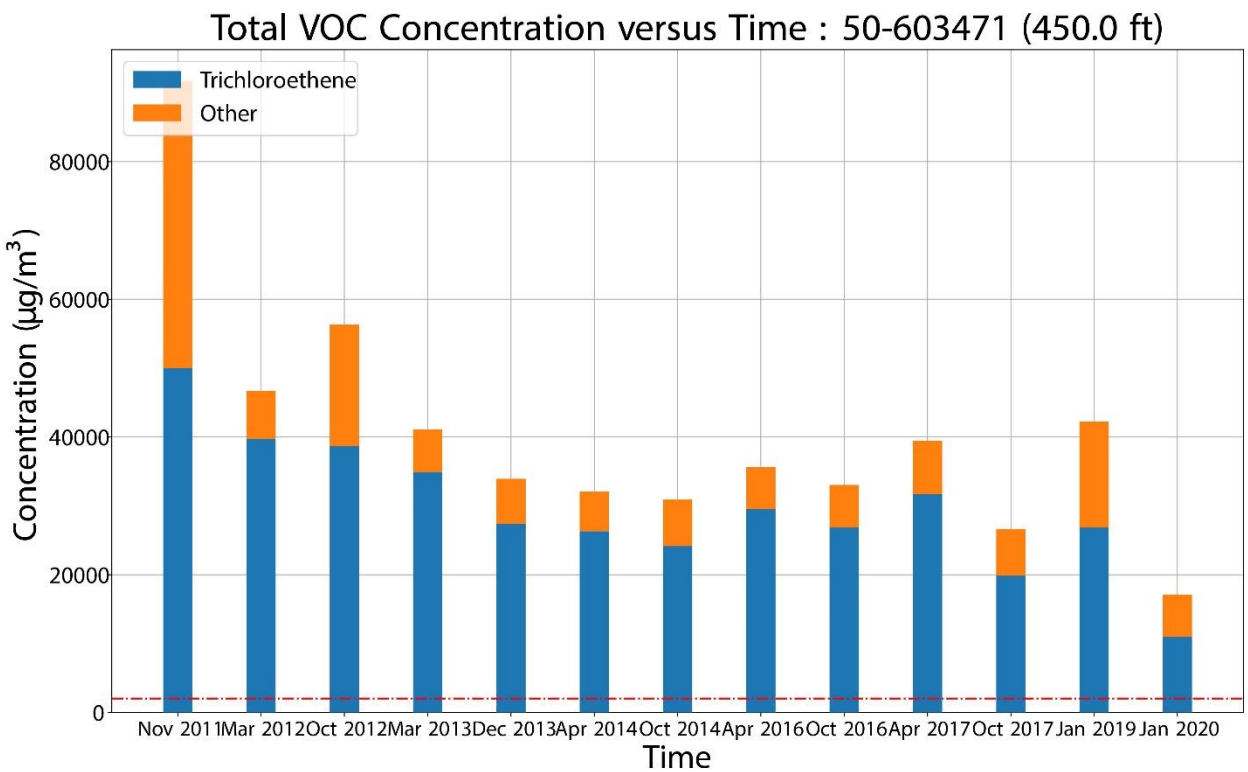

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-11 TCE concentration versus depth and time for borehole 50-603471**



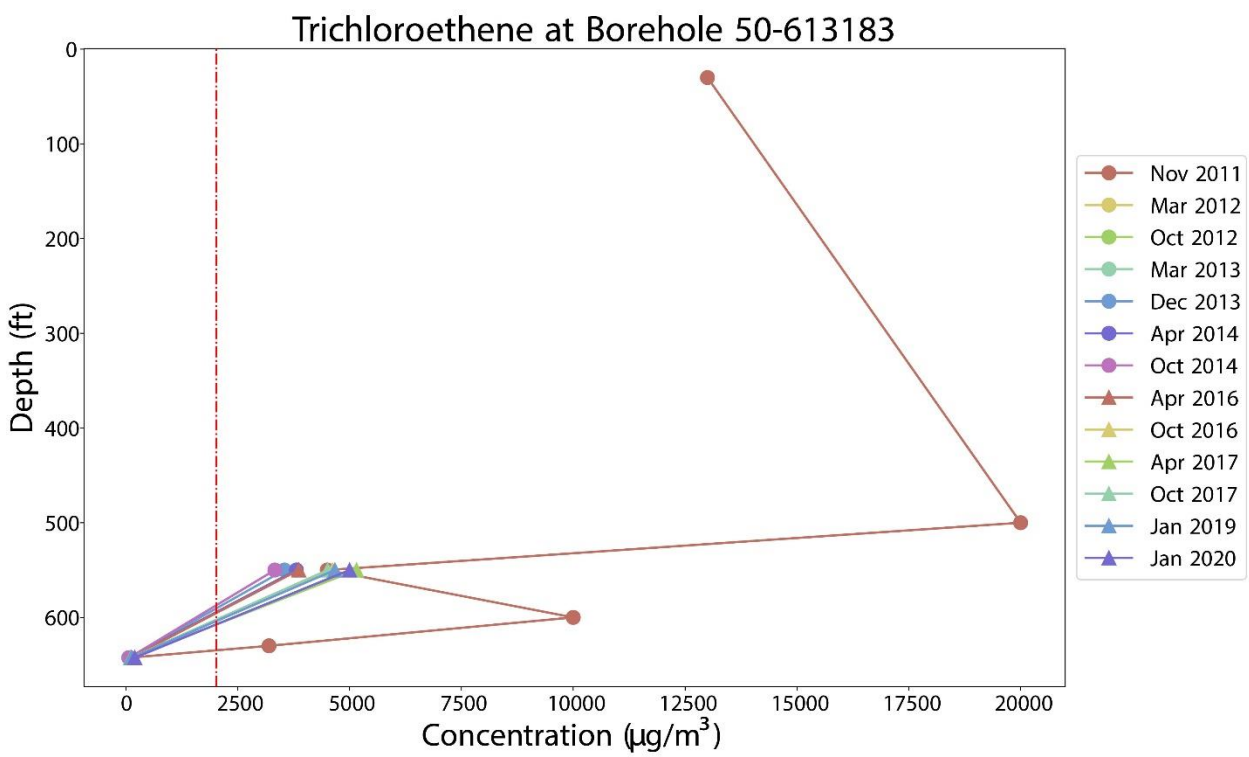

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-12 Total VOC concentration through time at 288 ft bgs for borehole 50-603471**



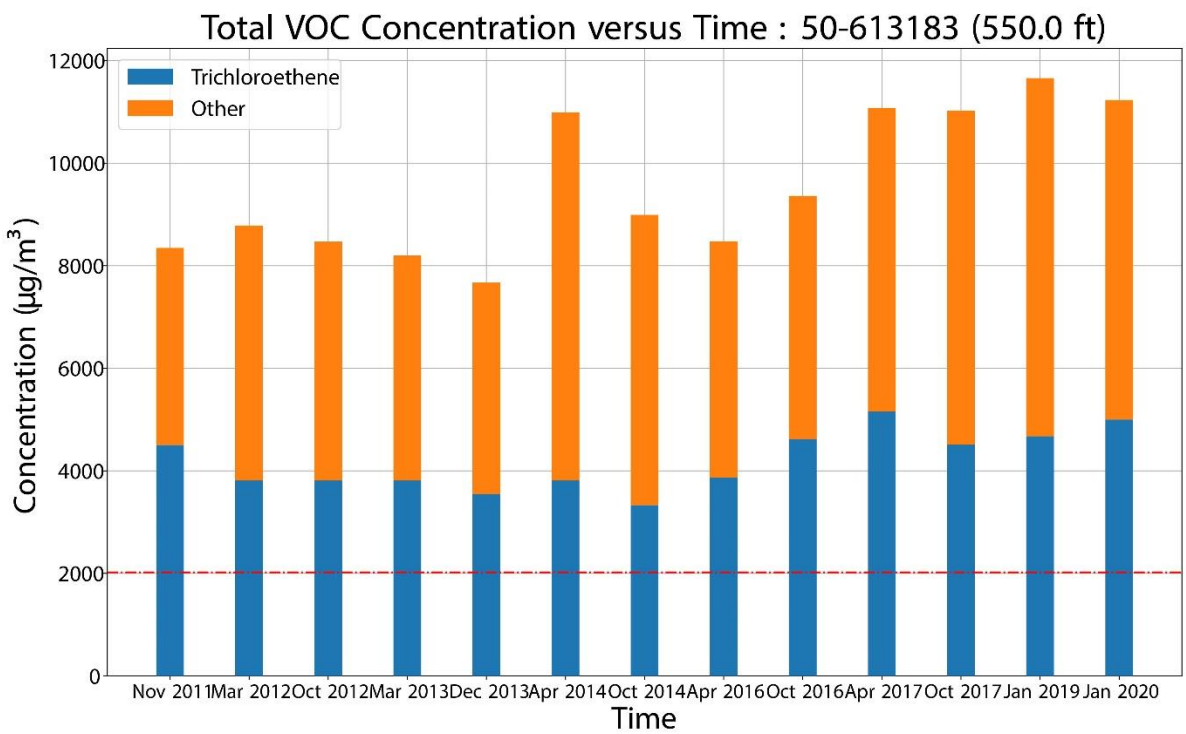

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-13 Total VOC concentration through time at 450 ft bgs for borehole 50-603471**



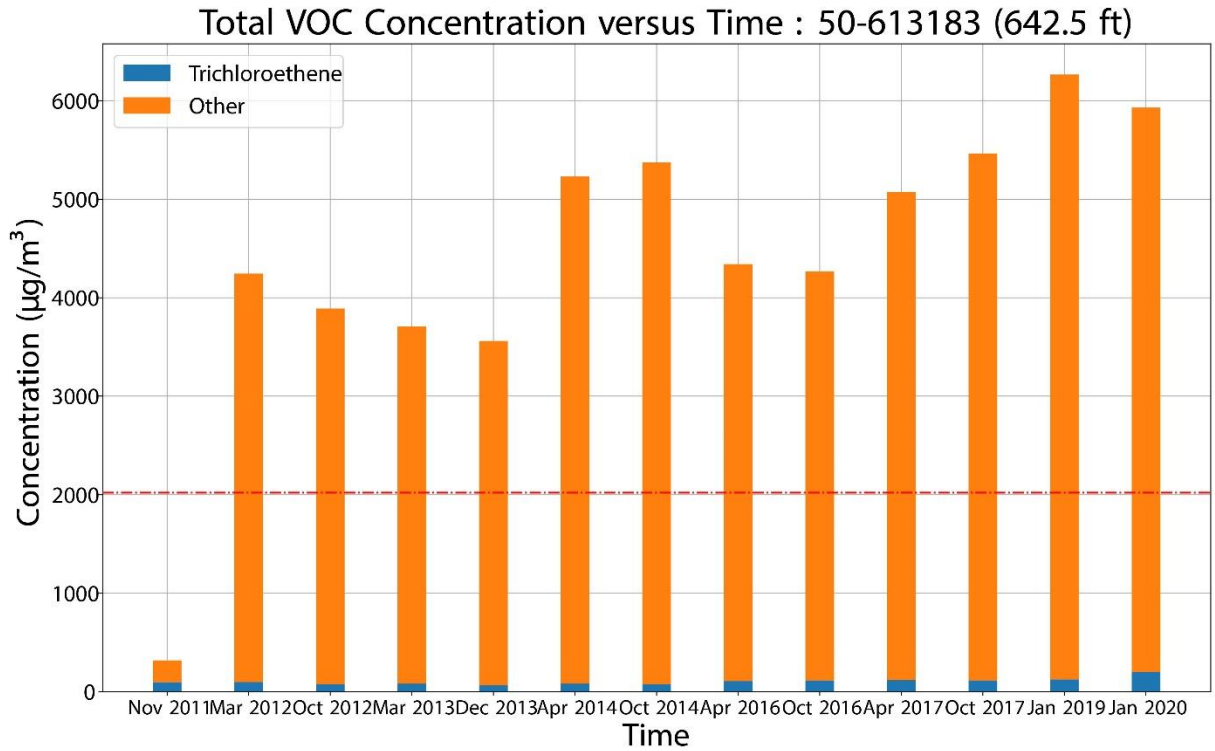

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-14 TCE concentration versus depth and time for borehole 50-613183**



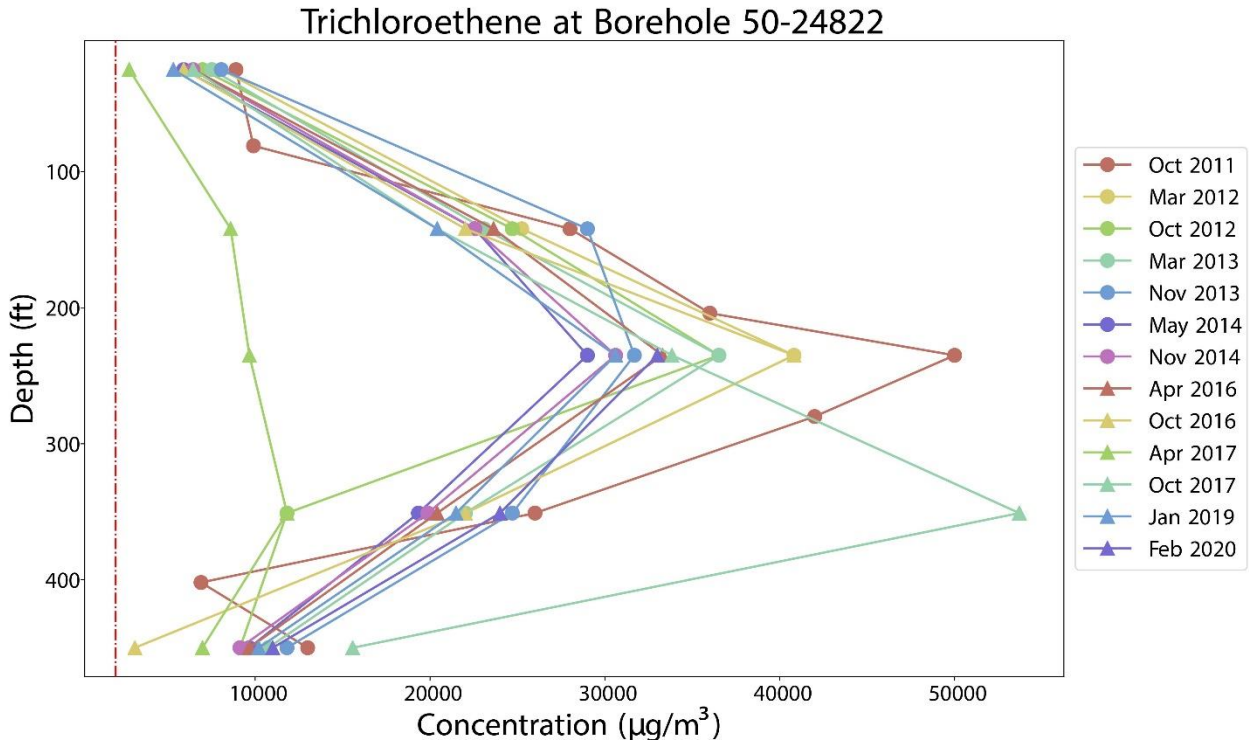

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-15 Total VOC concentration through time at 550 ft bgs for borehole 50-613183**



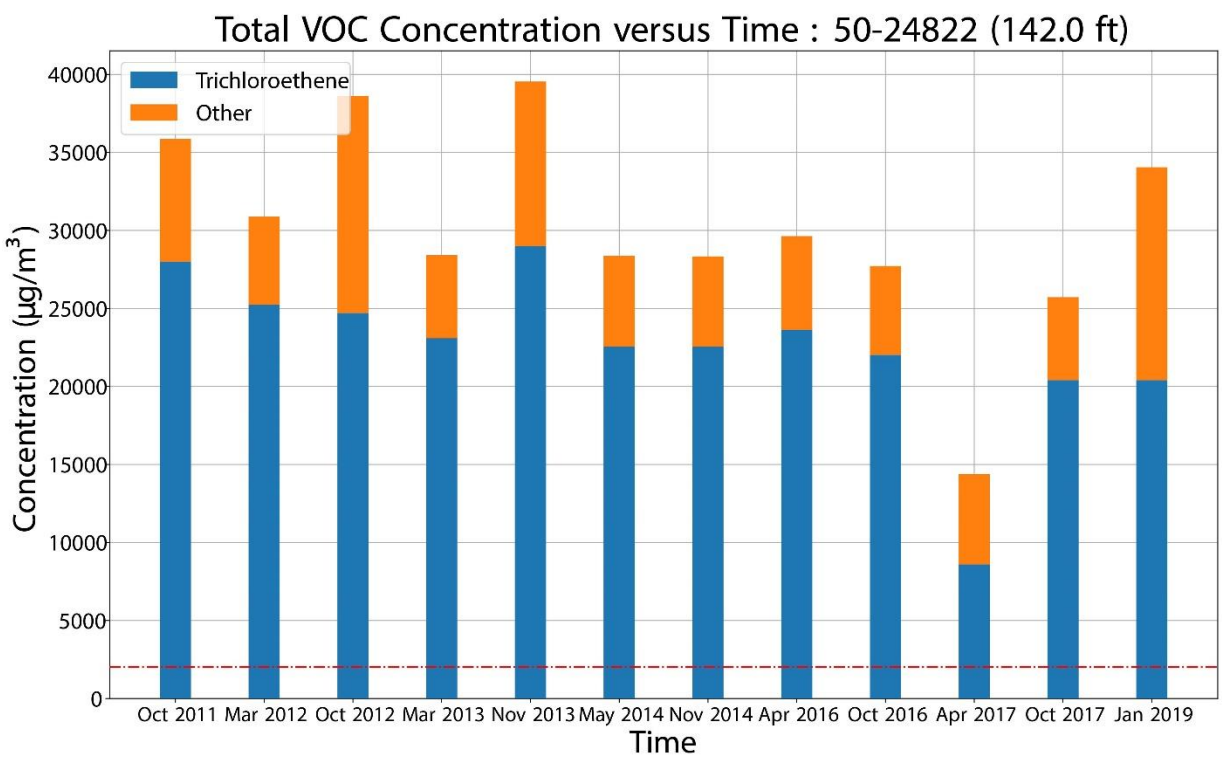

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-2.0-16 Total VOC concentration through time at 642.5 ft bgs for borehole 50-613183**



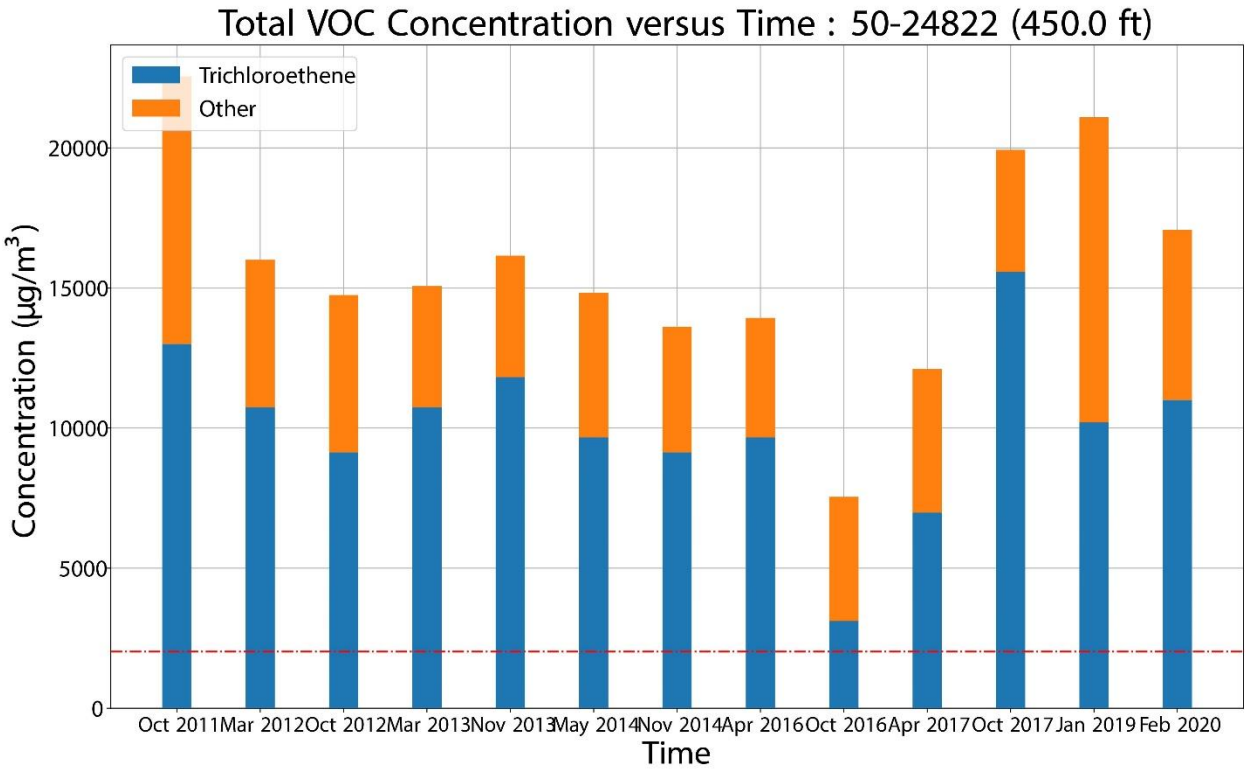

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-1 TCE concentration versus depth and time for borehole 50-24822**



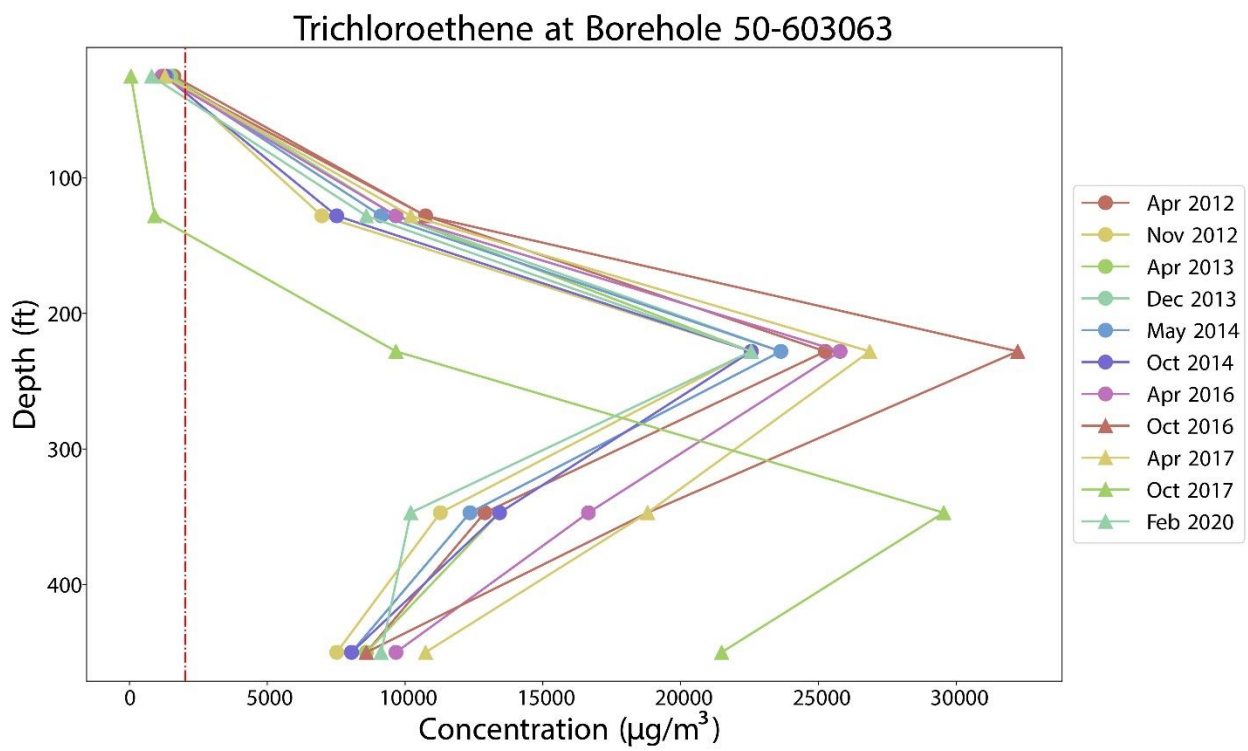

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-2 Total VOC concentration through time at 142 ft bgs for borehole 50-24822**



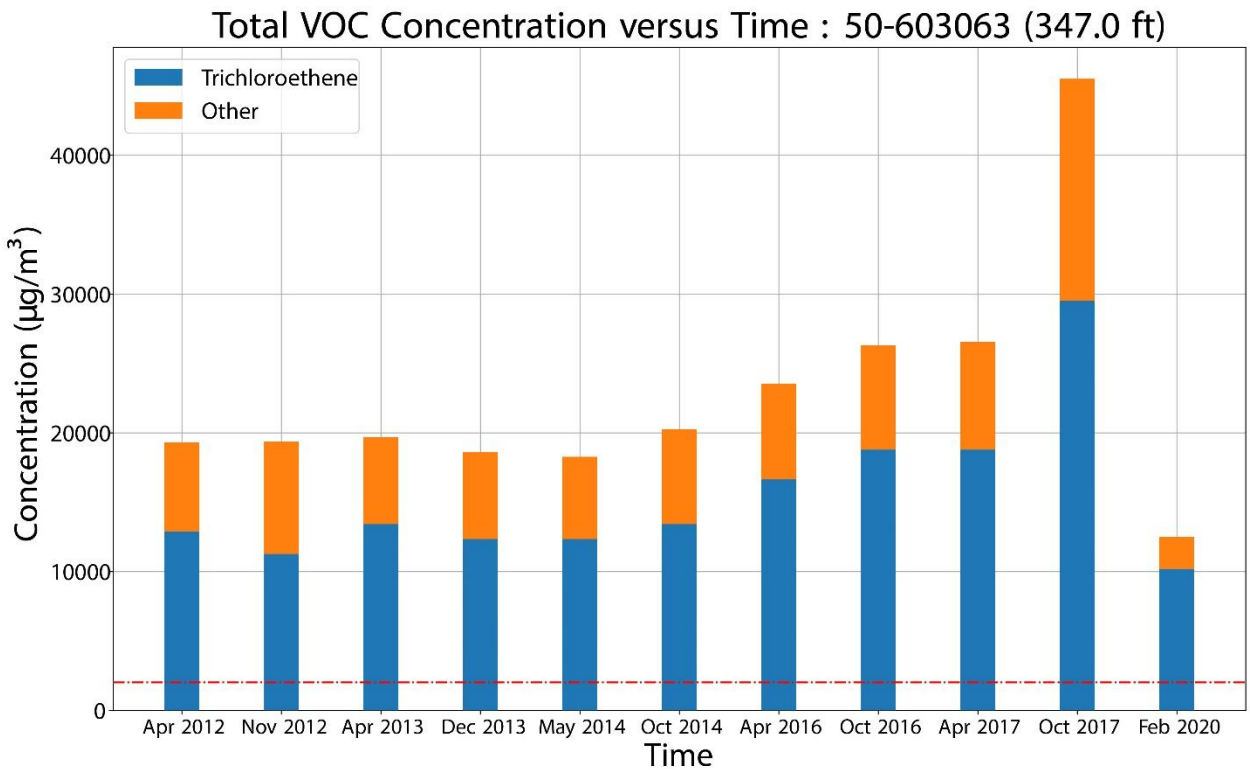

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-3 Total VOC concentration through time at 450 ft bgs for borehole 50-24822**



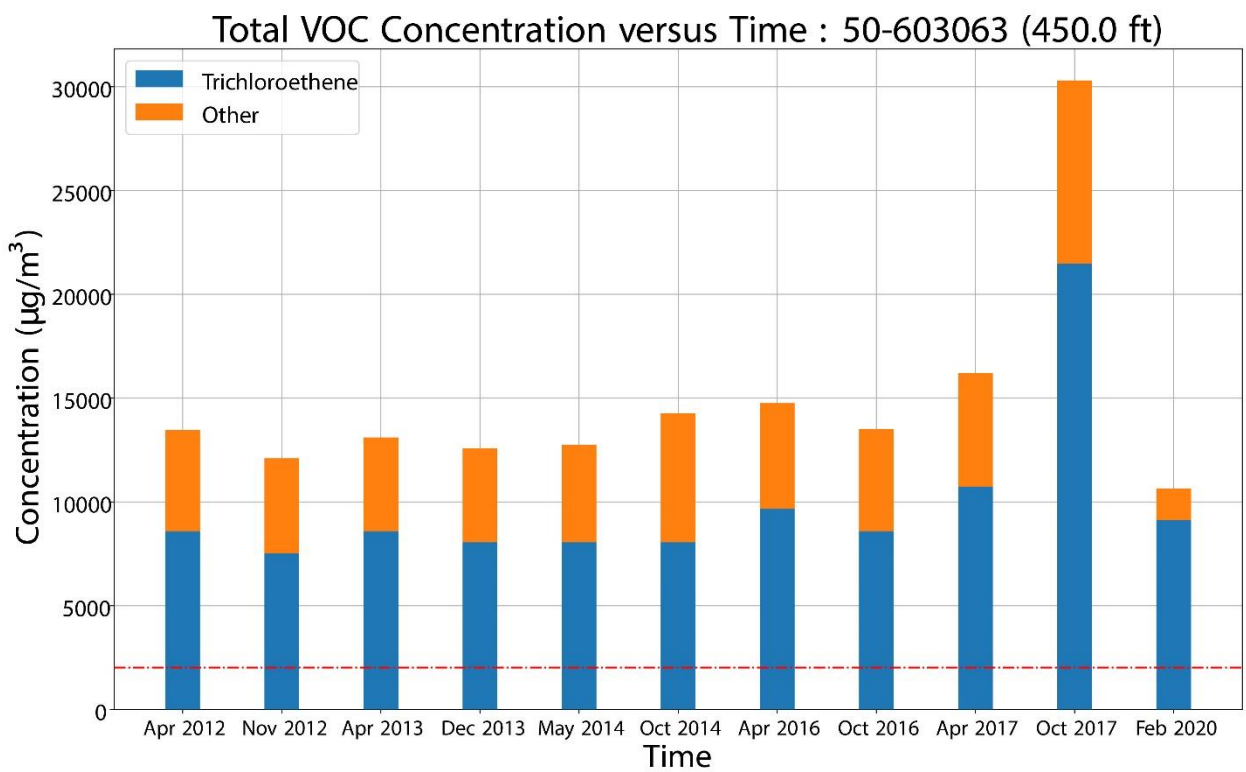

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-4 TCE concentration versus depth and time for borehole 50-603063**



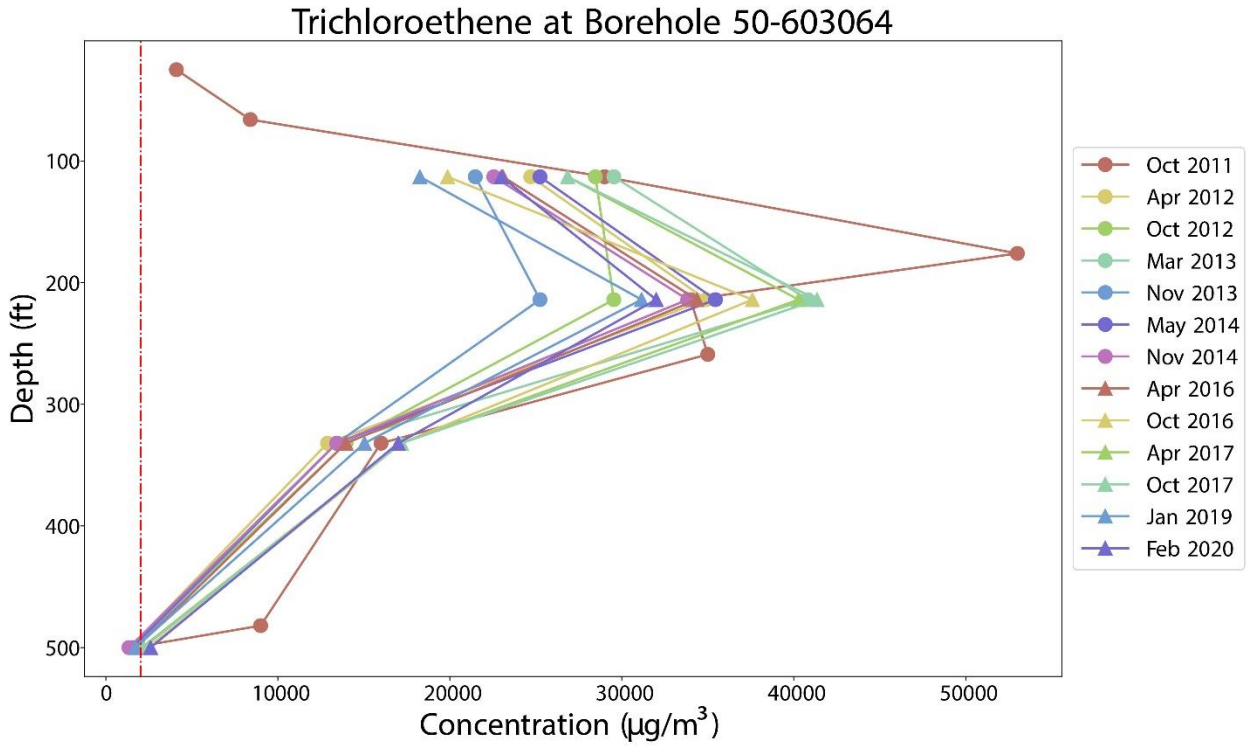

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-5 Total VOC concentration through time at 347 ft bgs for borehole 50-603063**



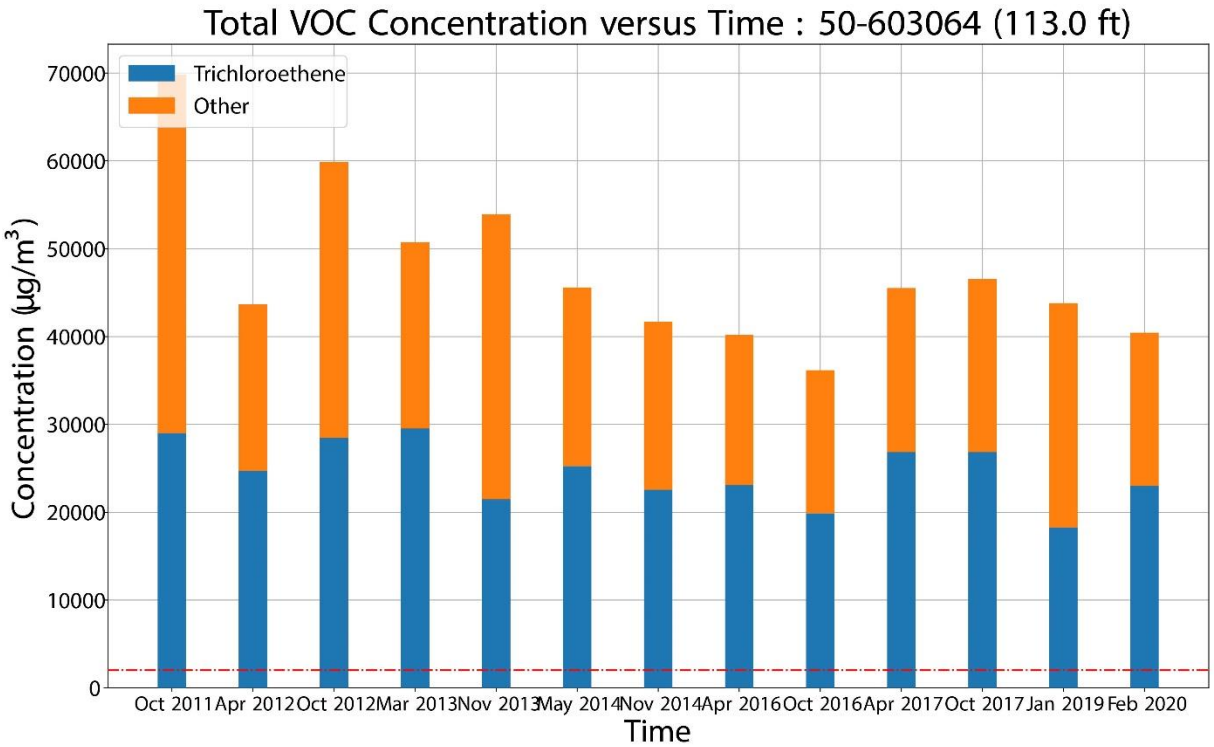

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-6 Total VOC concentration through time at 450 ft bgs for borehole 50-603063**



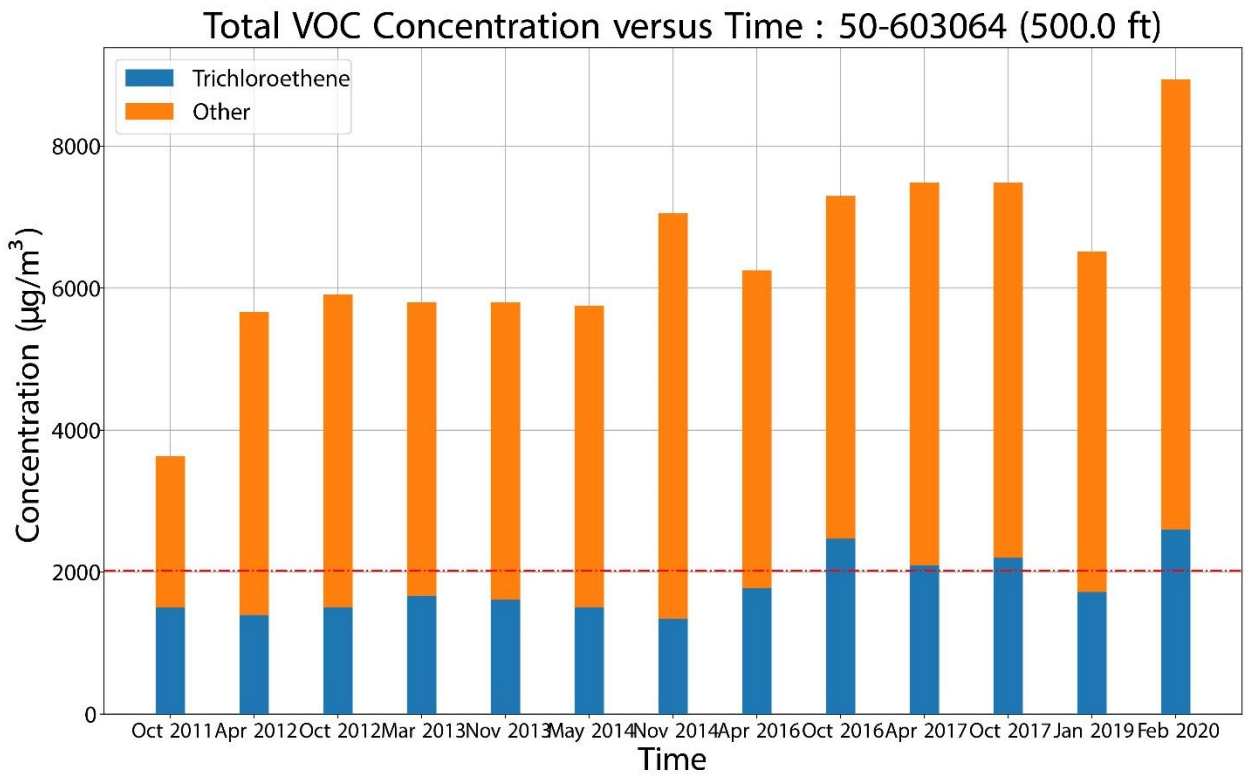

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-7 TCE concentration versus depth and time for borehole 50-603064**



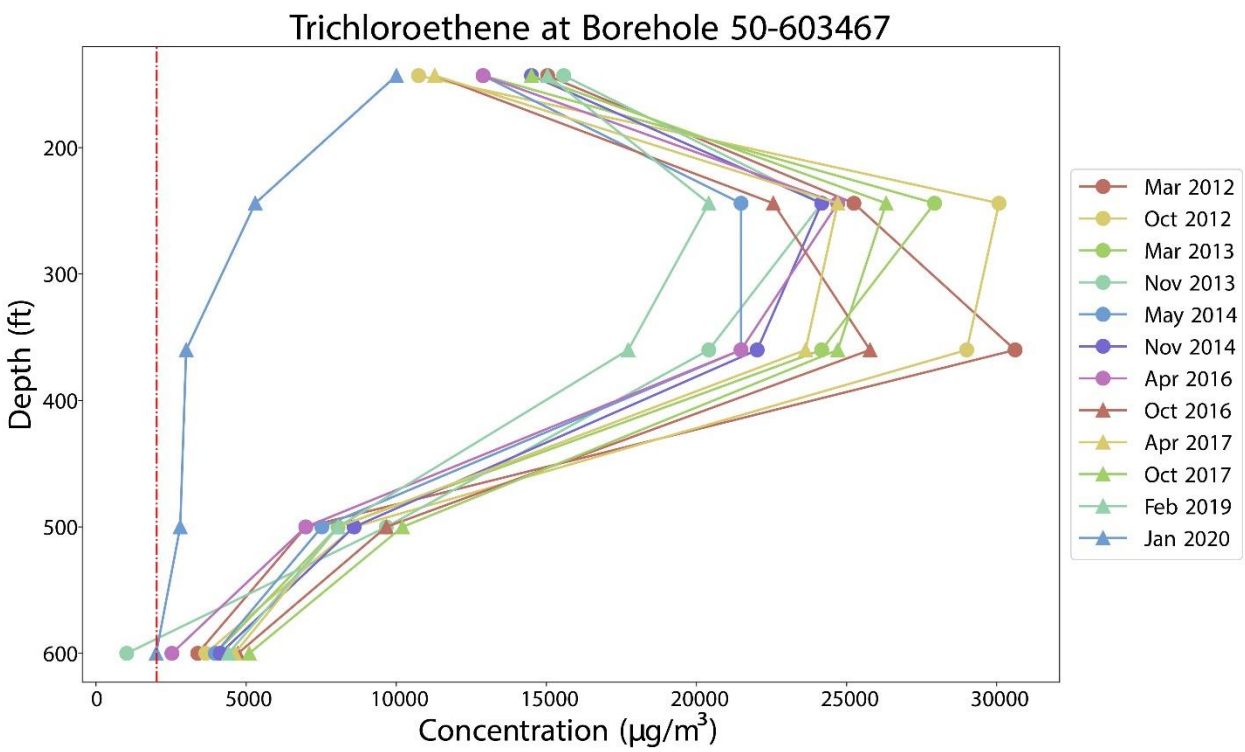

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-8 Total VOC concentration through time at 113 ft bgs for borehole 50-603064**



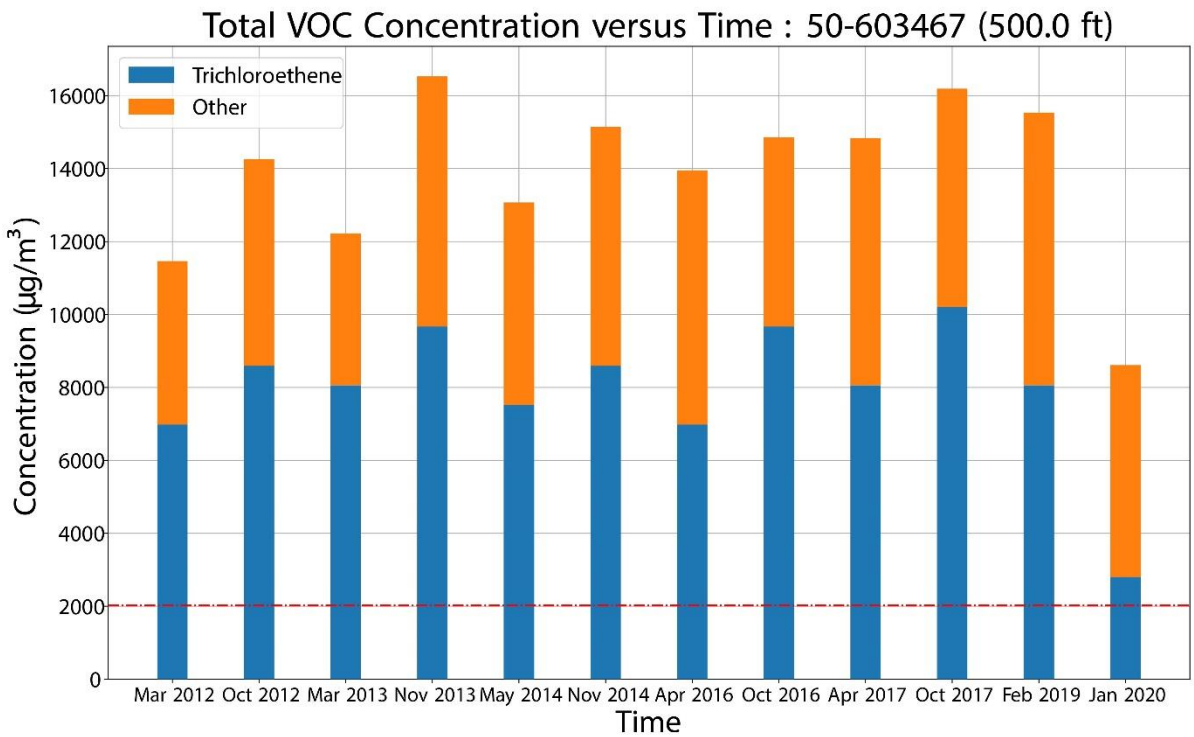

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-9 Total VOC concentration through time at 500 ft bgs for borehole 50-603064**



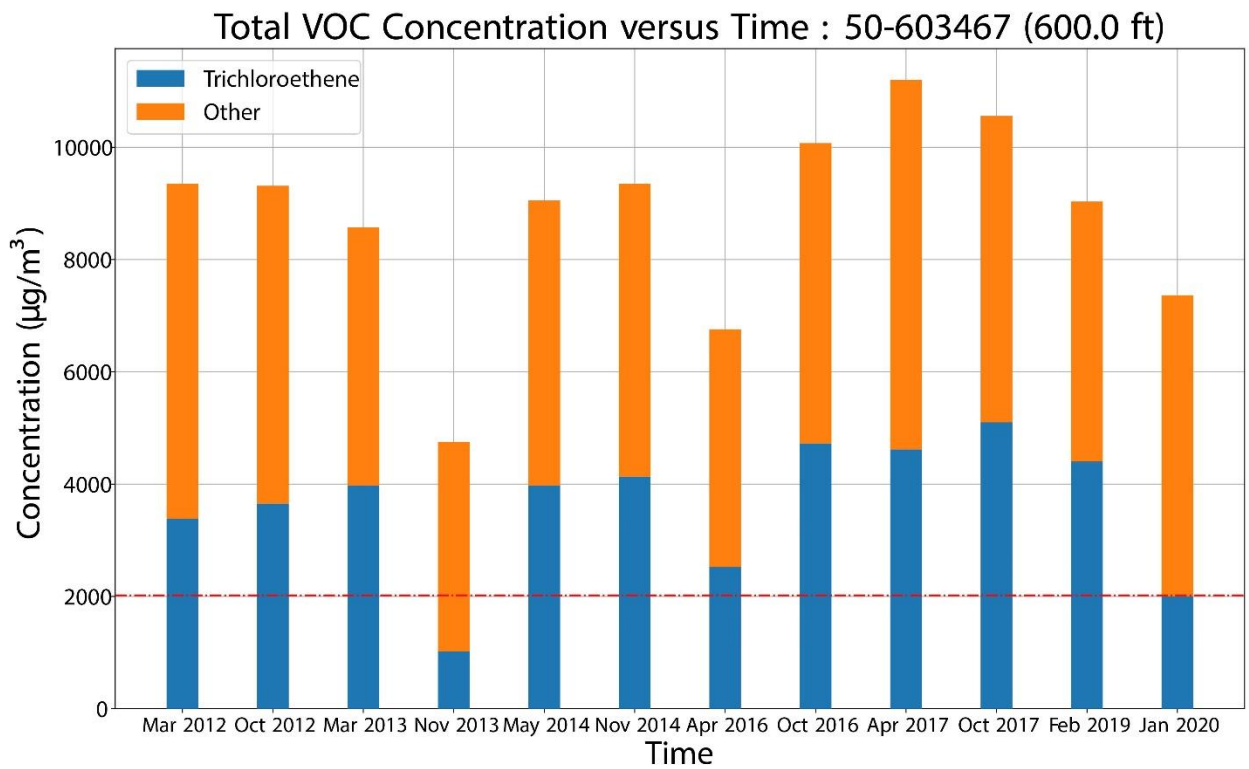

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-10 TCE concentration versus depth and time for borehole 50-603467**



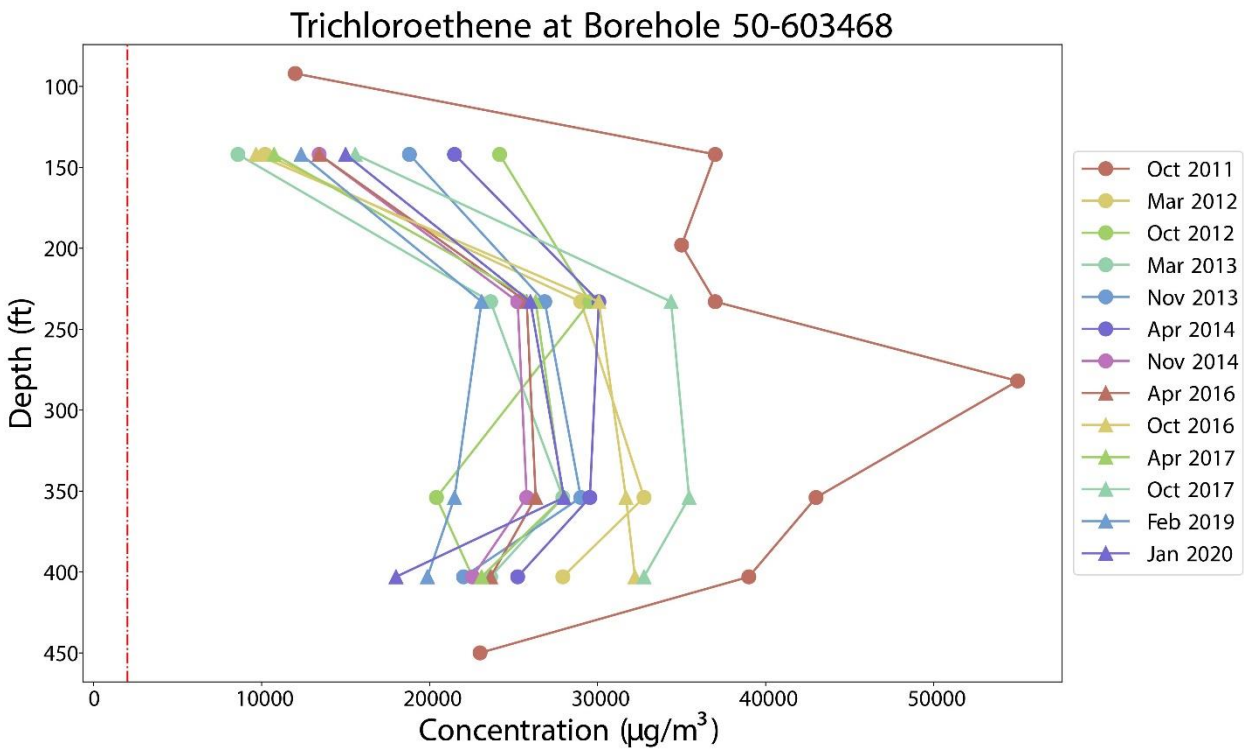

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-11 Total VOC concentration through time at 500 ft bgs for borehole 50-603467**



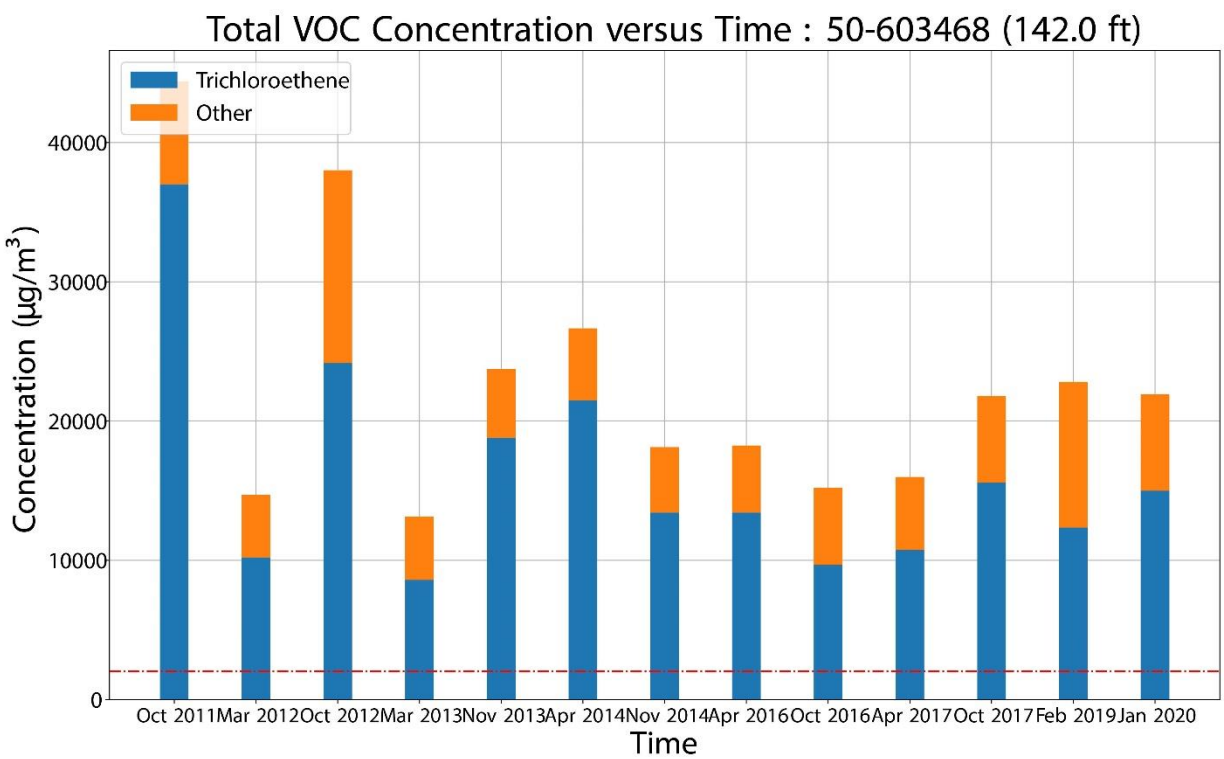

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-12 Total VOC concentration through time at 600 ft bgs for borehole 50-603467**



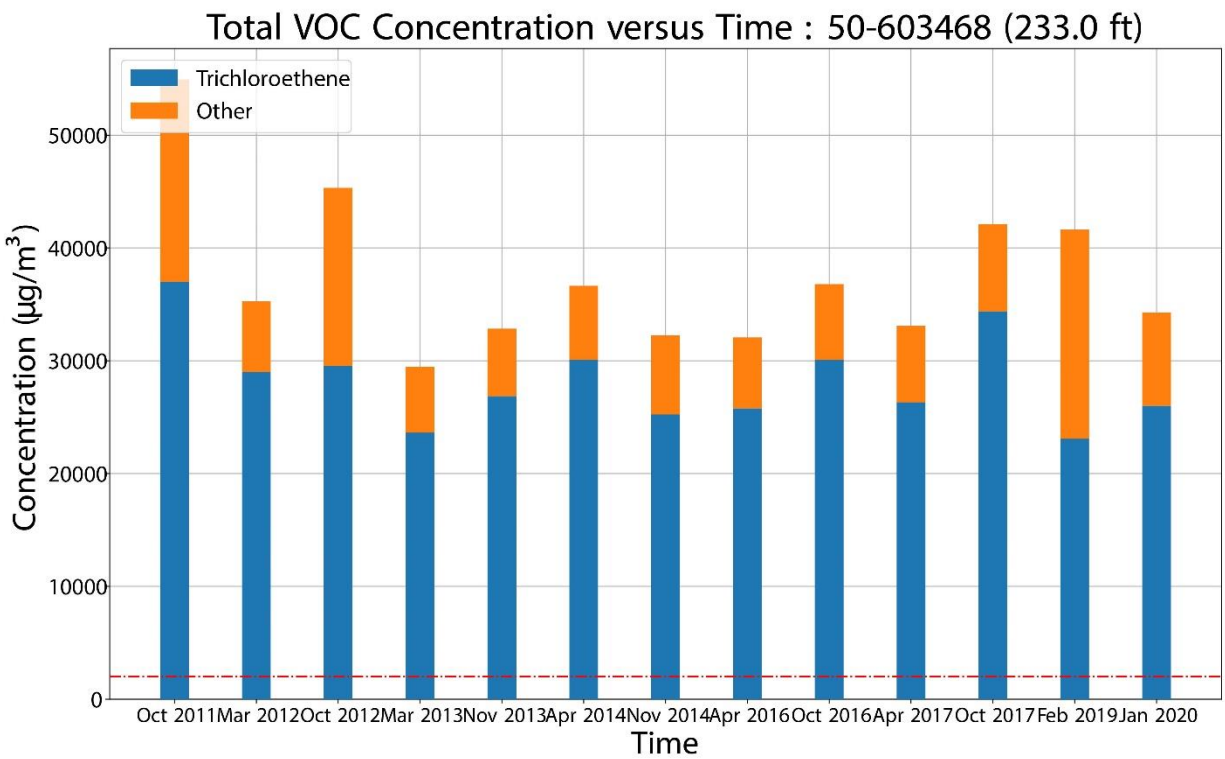

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-13 TCE concentration versus depth and time for borehole 50-603468**



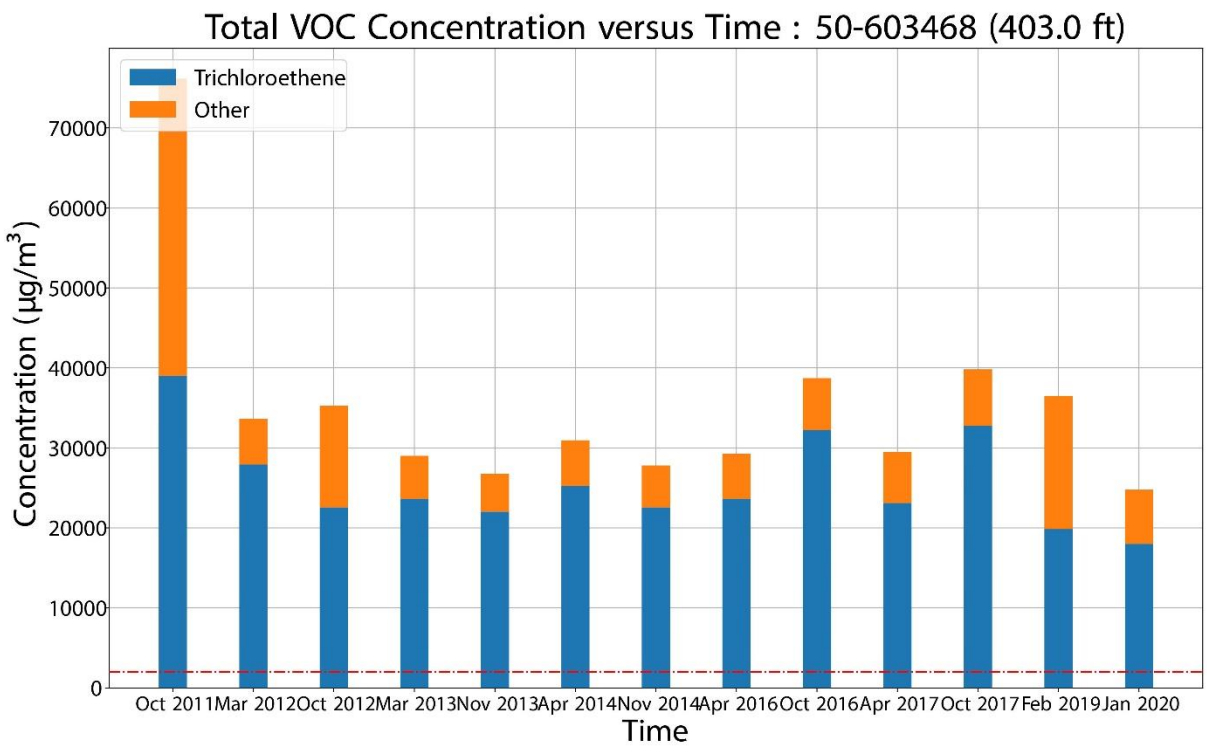

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-14 Total VOC concentration through time at 142 ft bgs for borehole 50-603468**



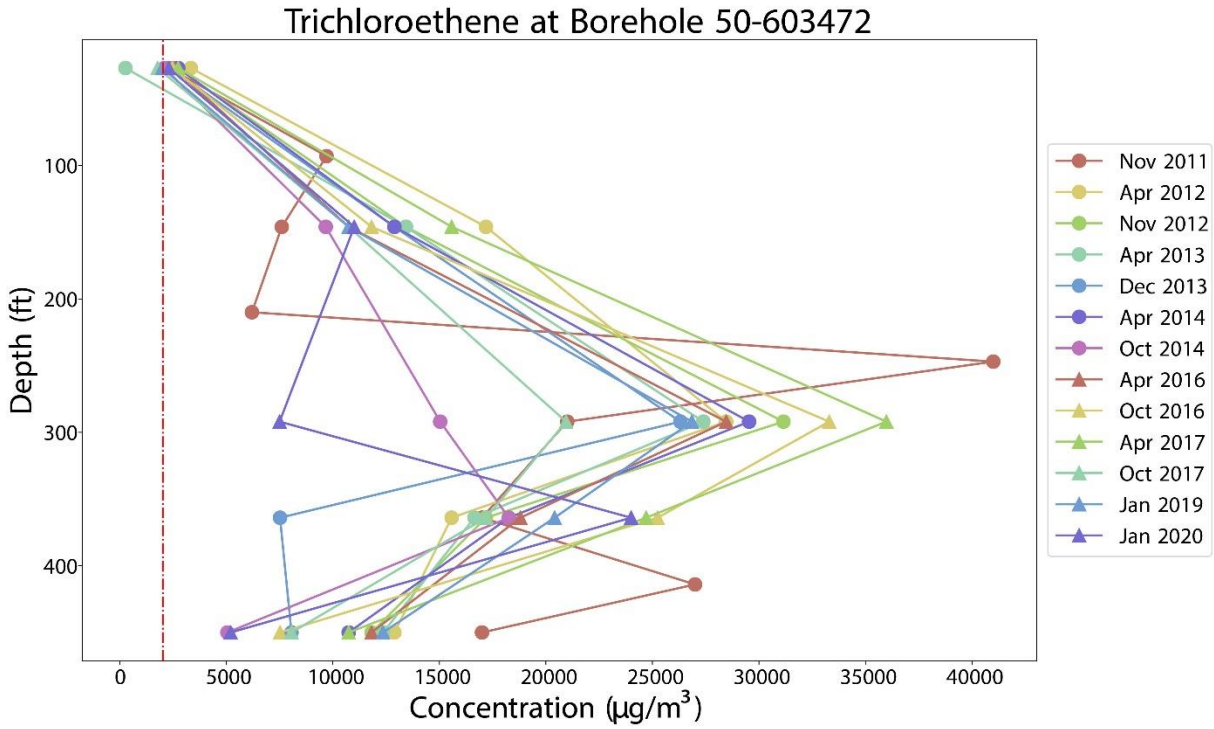

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-15 Total VOC concentration through time at 233 ft bgs for borehole 50-603468**



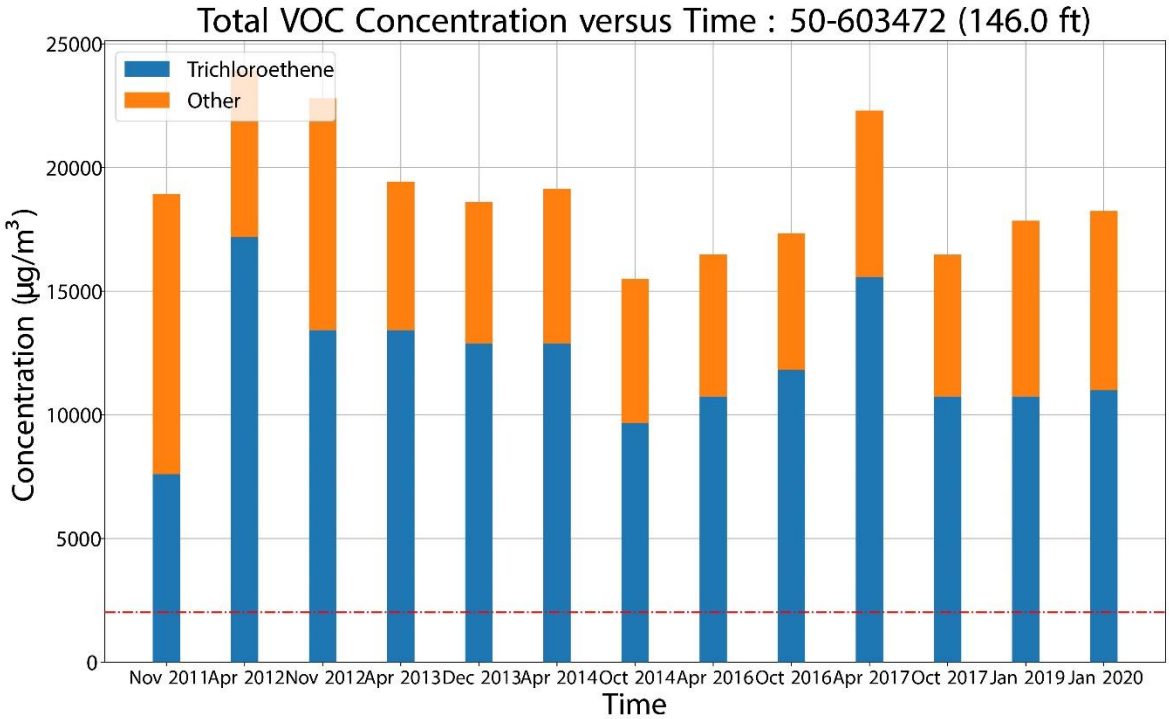

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-16 Total VOC concentration through time at 403 ft bgs for borehole 50-603468**



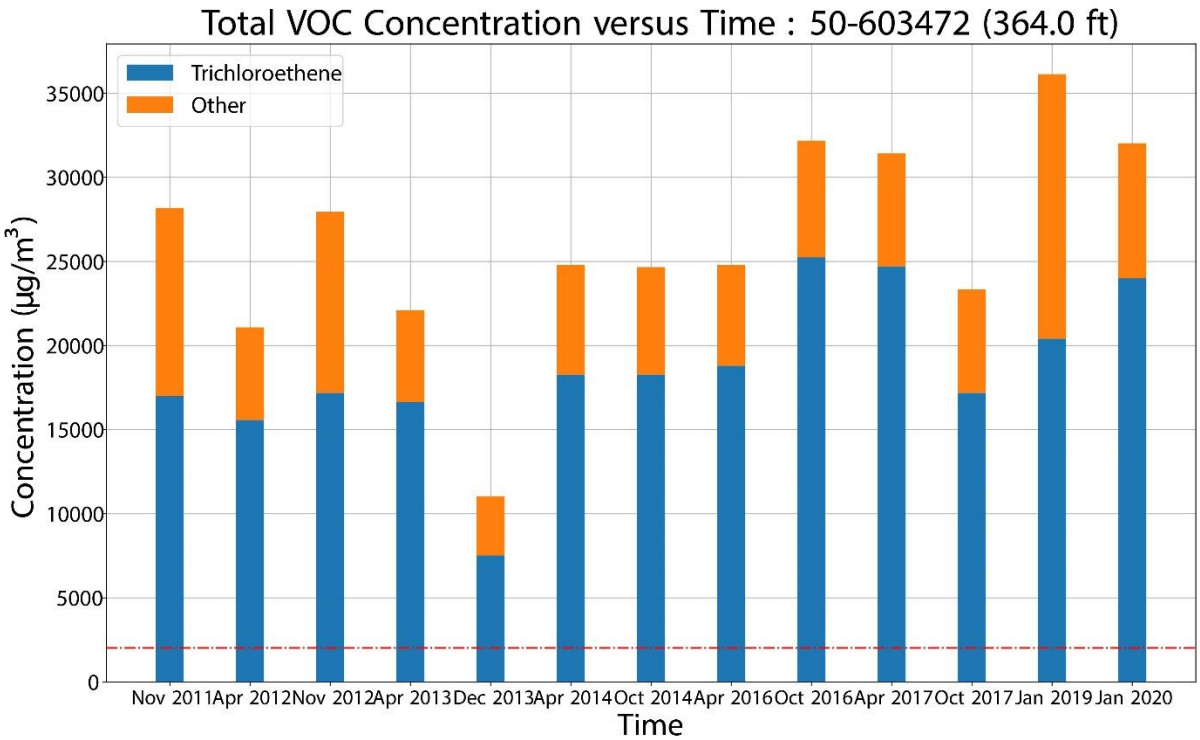

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-17 TCE concentration versus depth and time for borehole 50-603472**



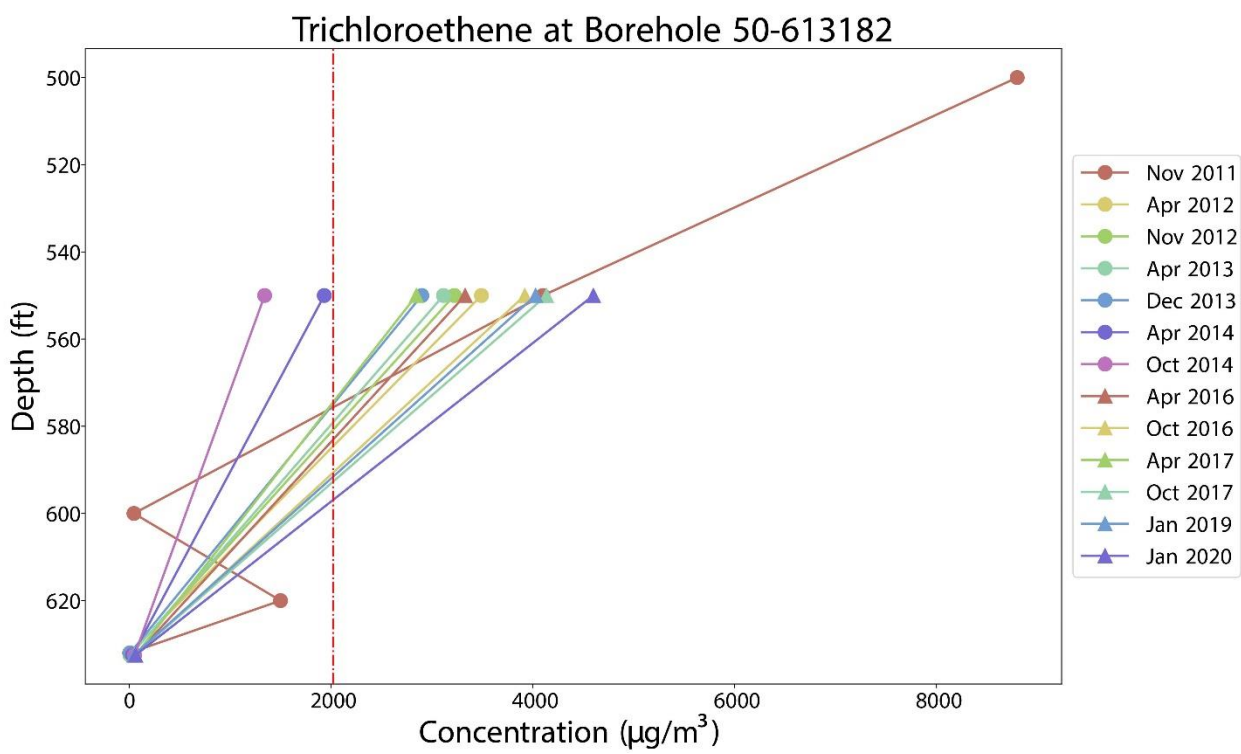

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-18 Total VOC concentration through time at 146 ft bgs for borehole 50-603472**



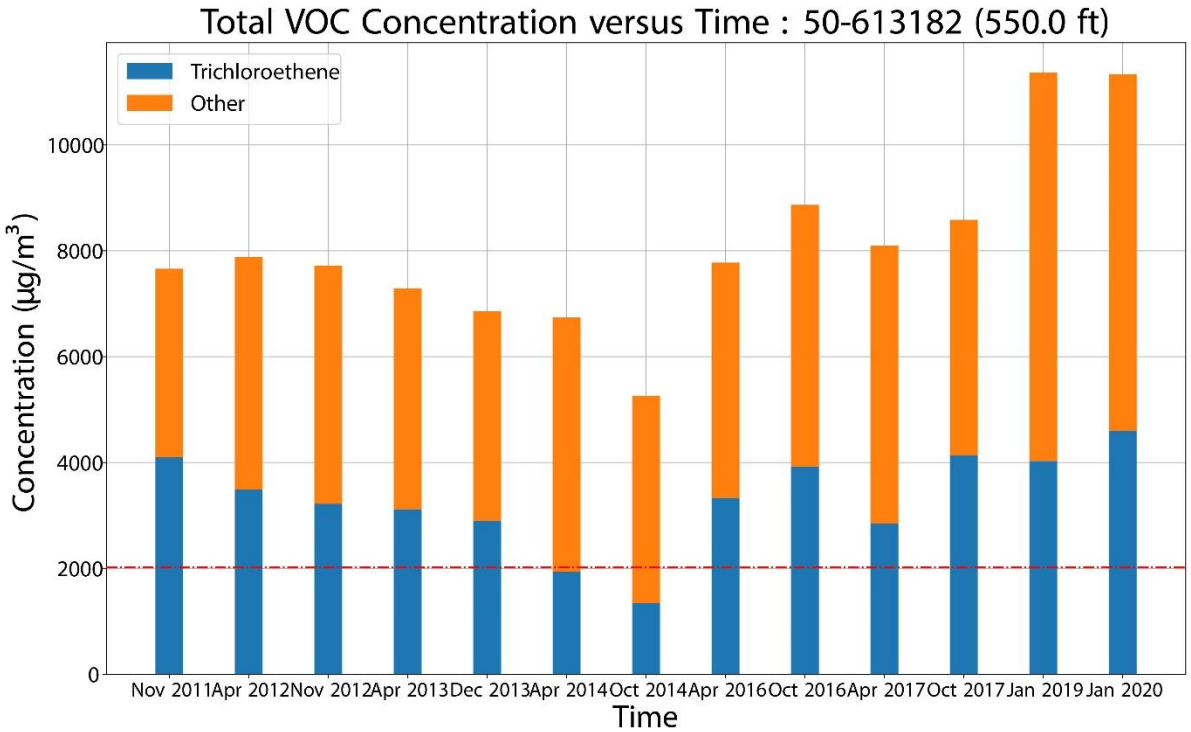

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-19 Total VOC concentration through time at 364 ft bgs for borehole 50-603472**



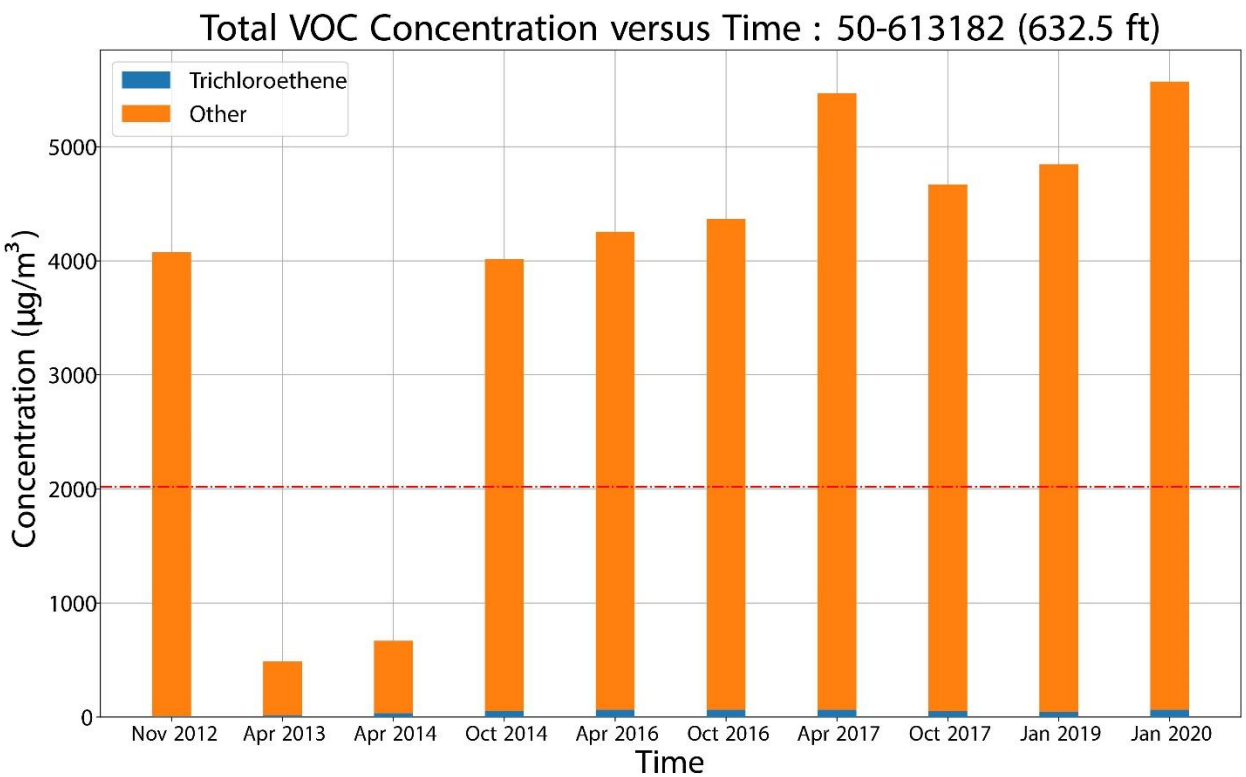

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-20 TCE concentration versus depth and time for borehole 50-613182**



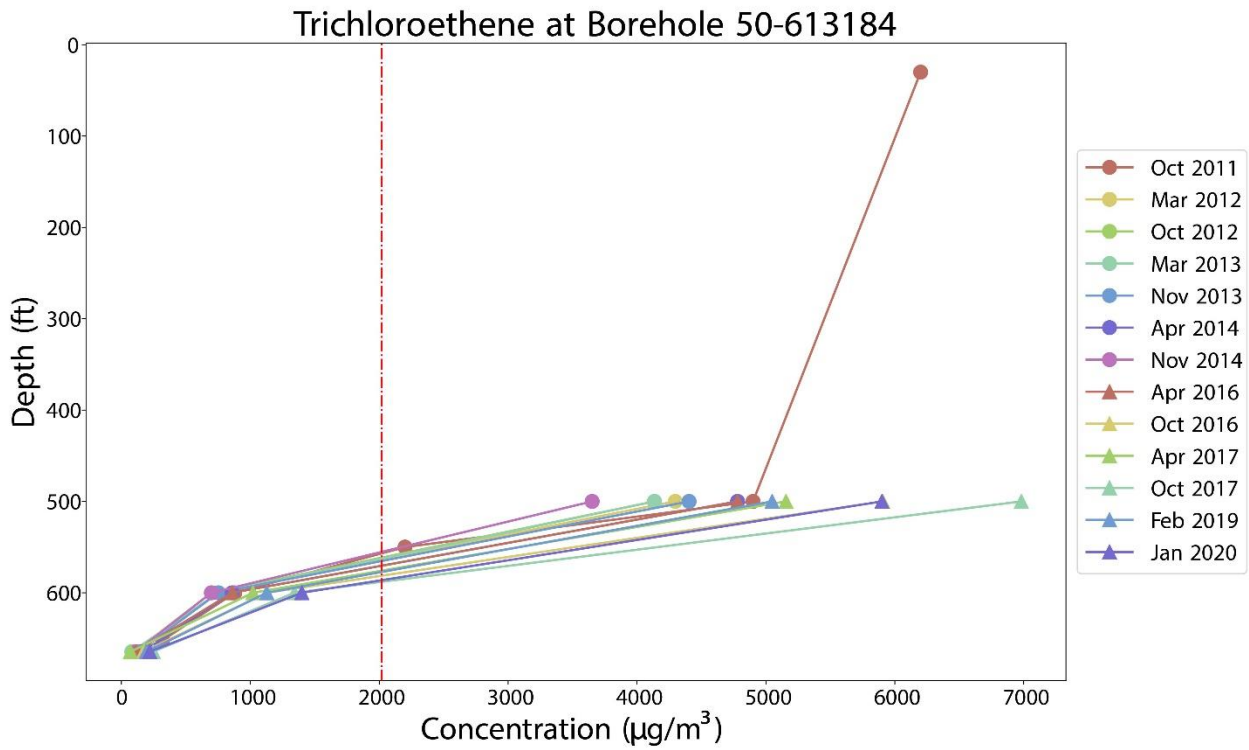

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-21 Total VOC concentration through time at 550 ft bgs for borehole 50-613182**



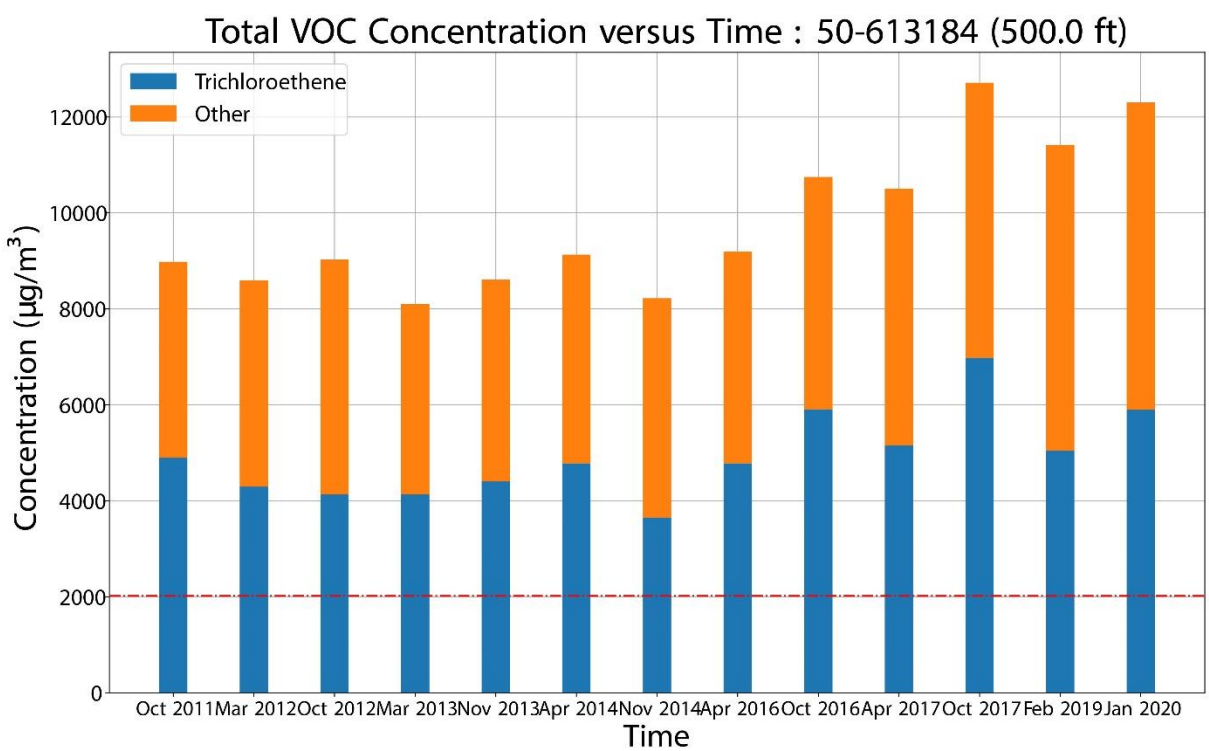

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-22 Total VOC concentration through time at 632.5 ft bgs for borehole 50-613182**



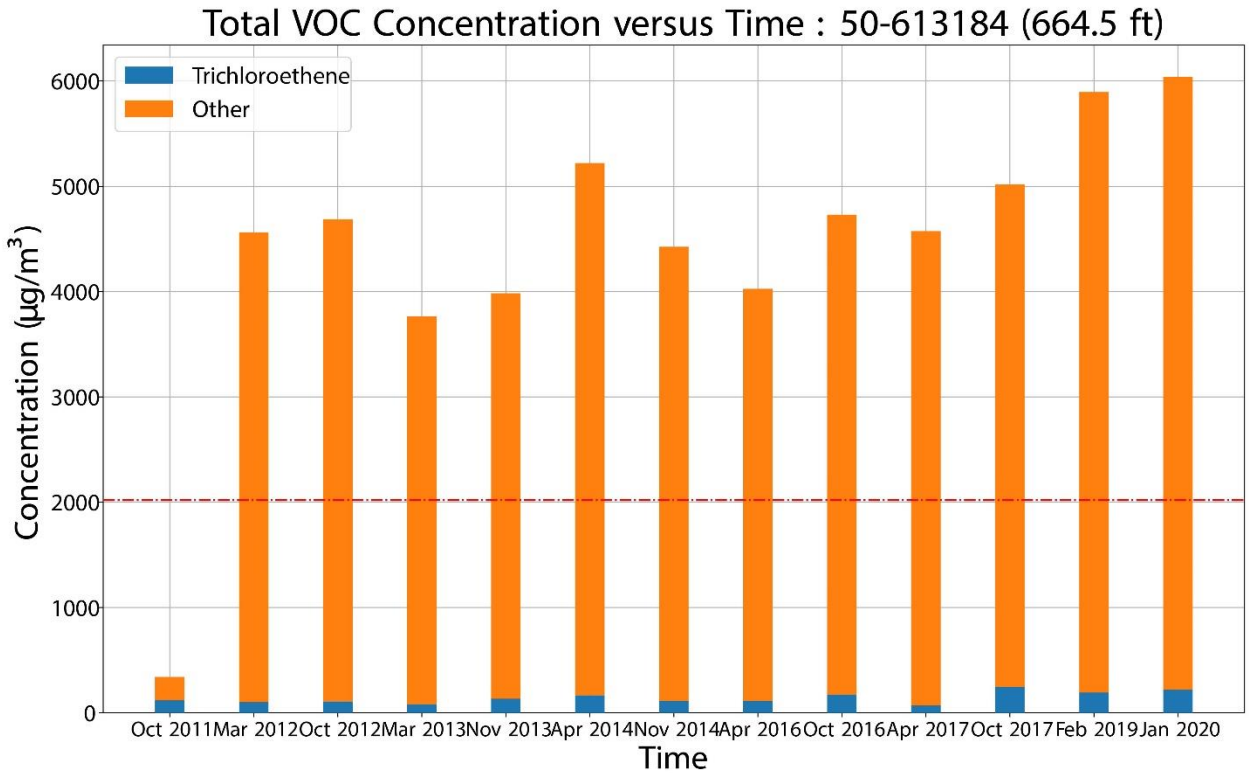

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-23 TCE concentration versus depth and time for borehole 50-613184**



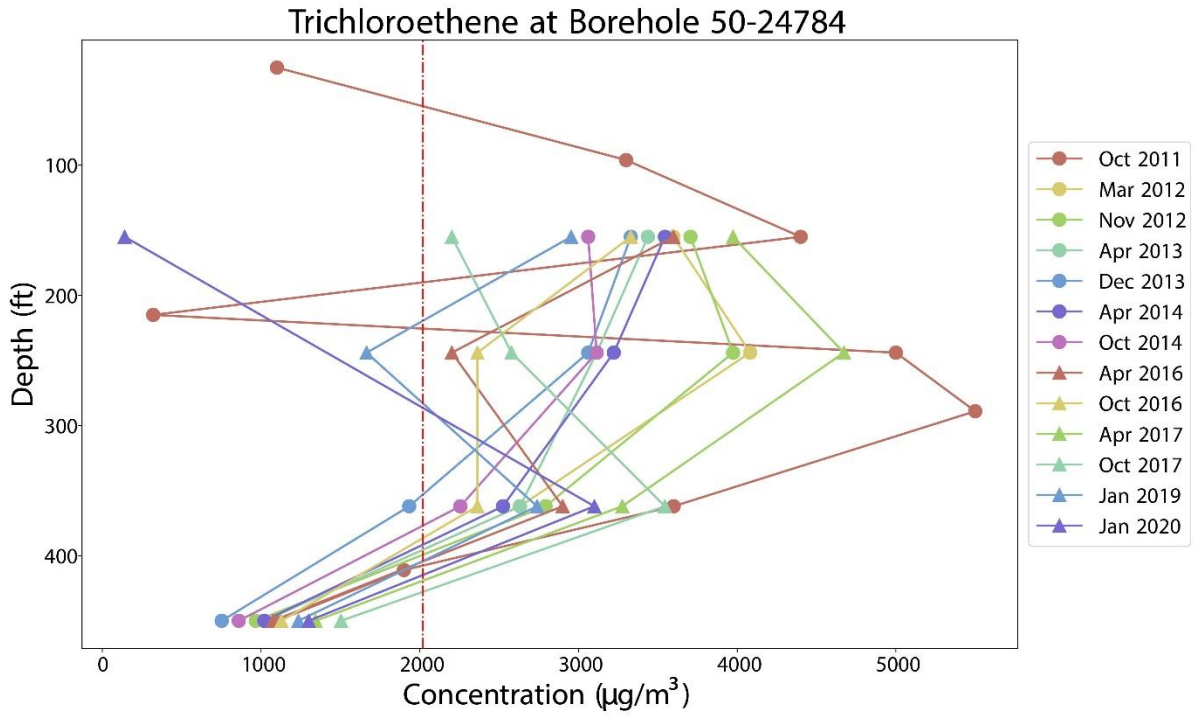

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-24 Total VOC concentration through time at 500 ft bgs for borehole 50-613184**



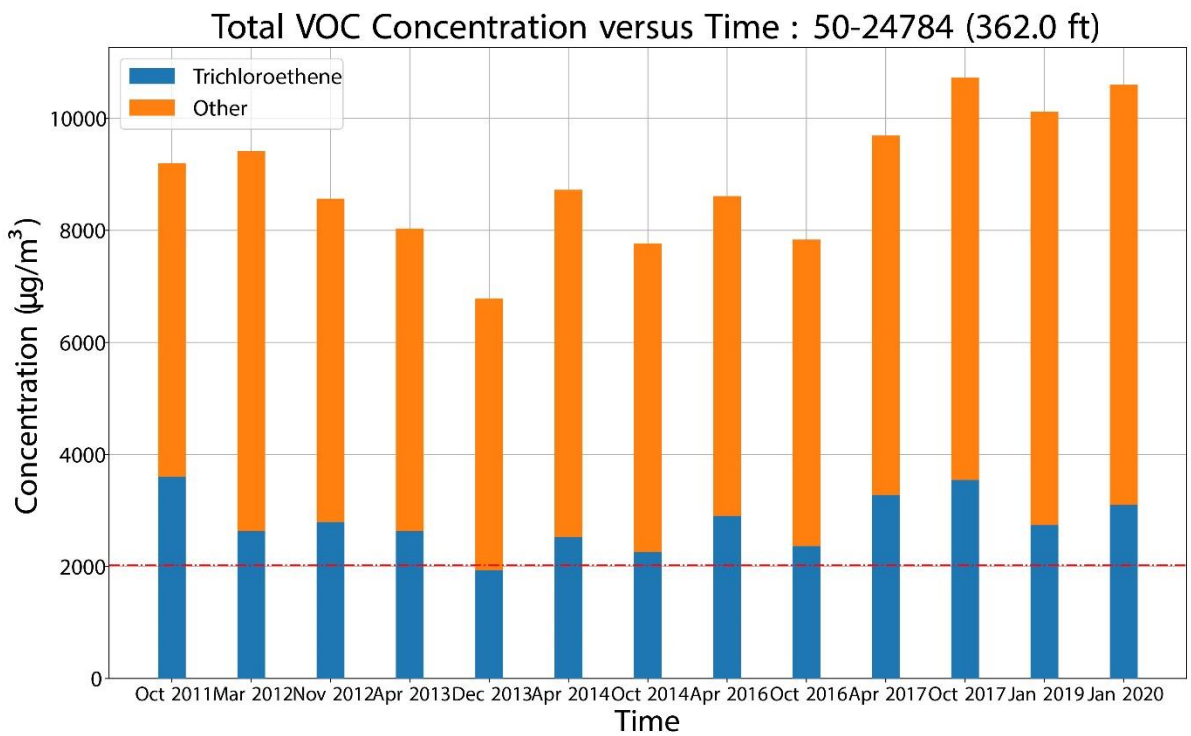

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-3.0-25 Total VOC concentration through time at 664.5 ft bgs for borehole 50-613184**



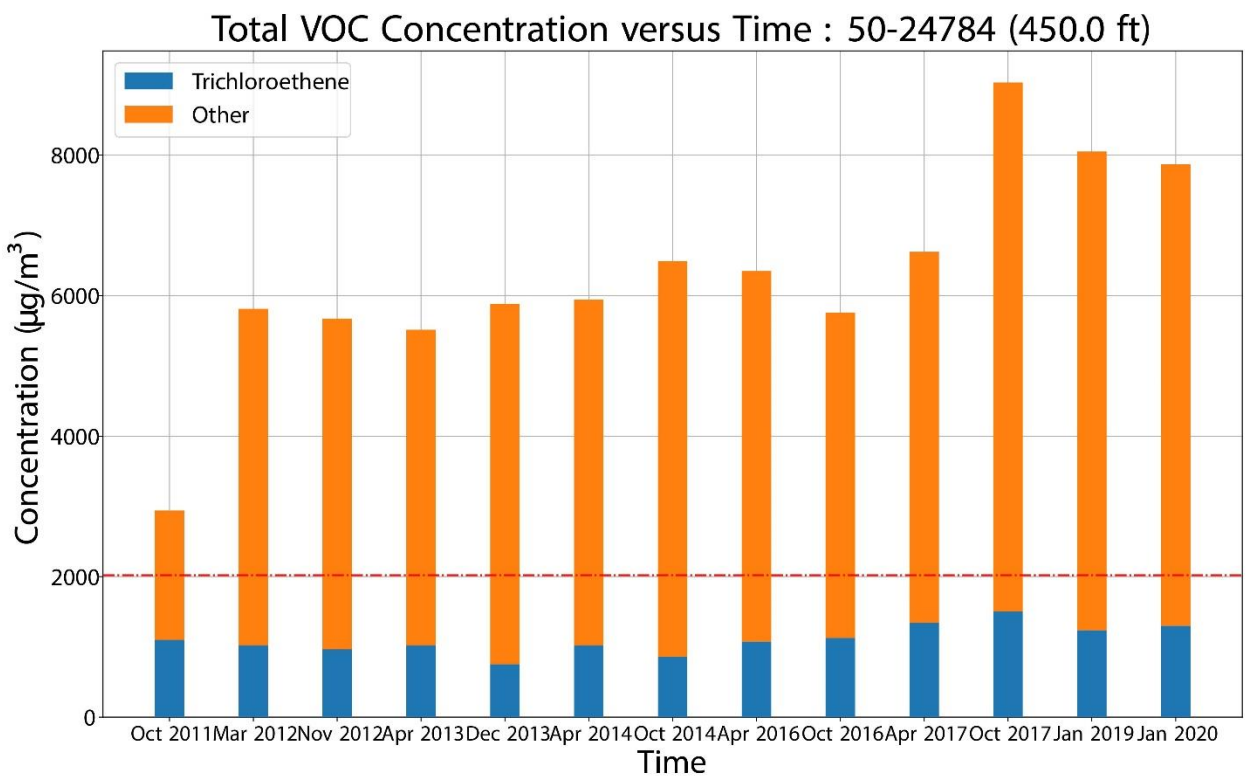

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-1 TCE concentration versus depth and time for borehole 50-24784**



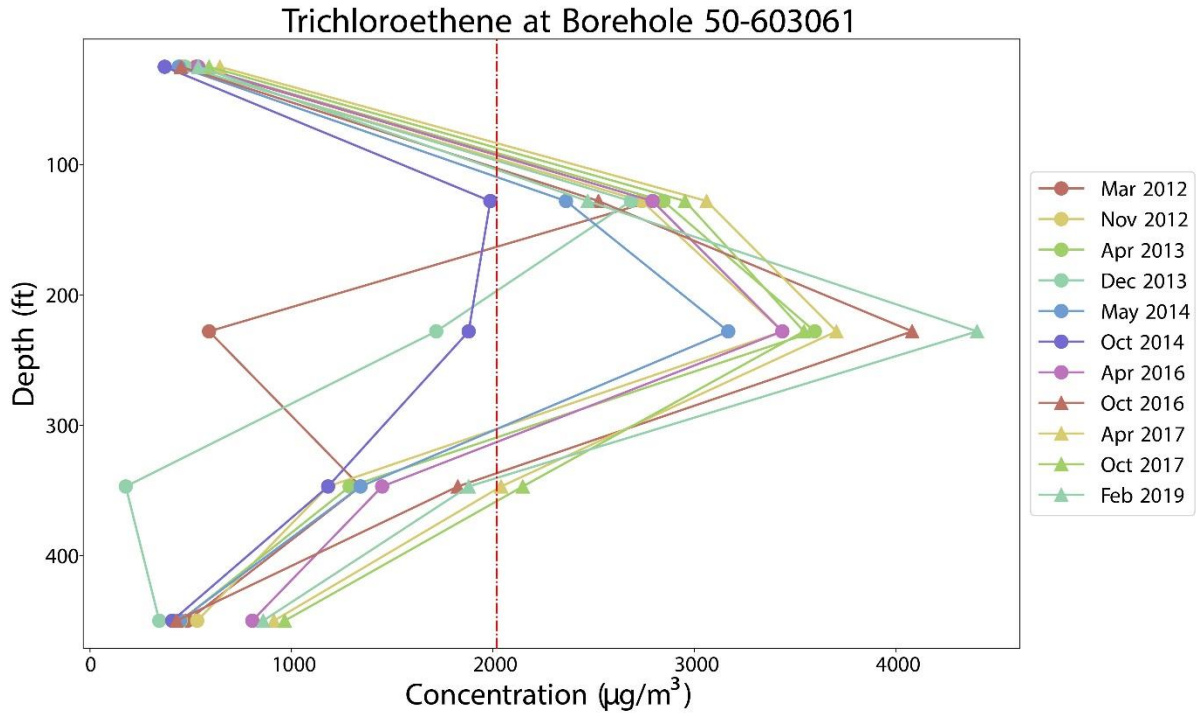

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-2 Total VOC concentration through time at 362 ft bgs for borehole 50-24784**



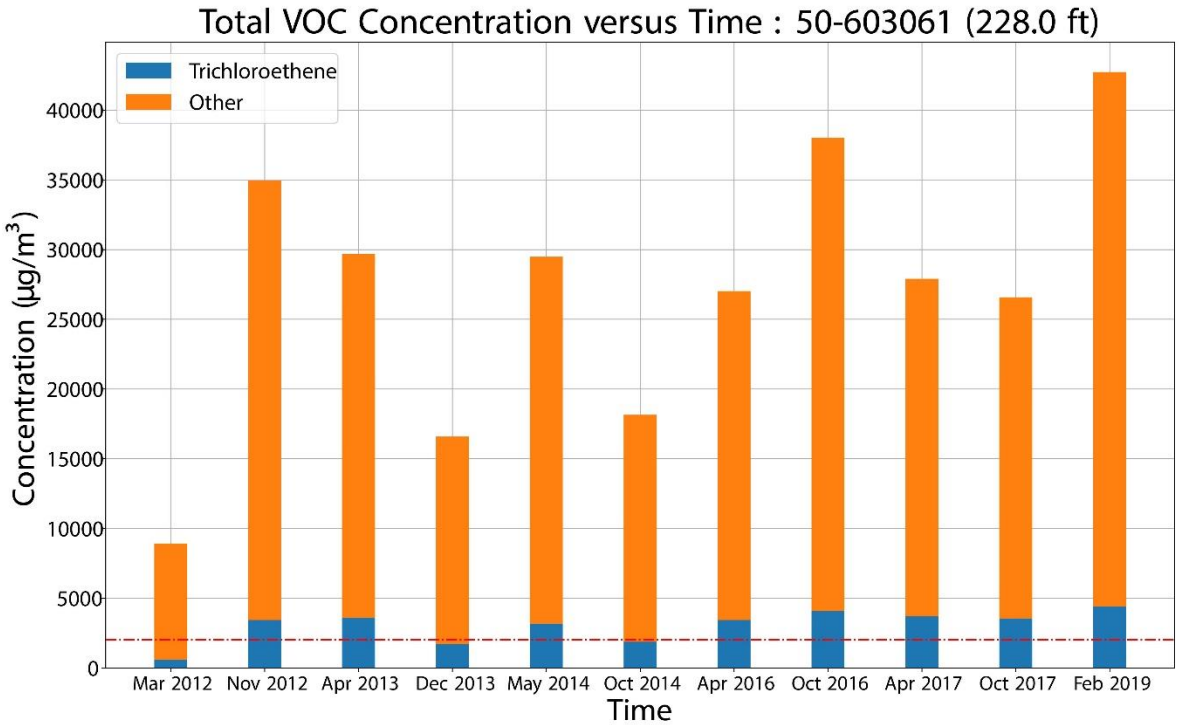

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-3 Total VOC concentration through time at 450 ft bgs for borehole 50-24784**



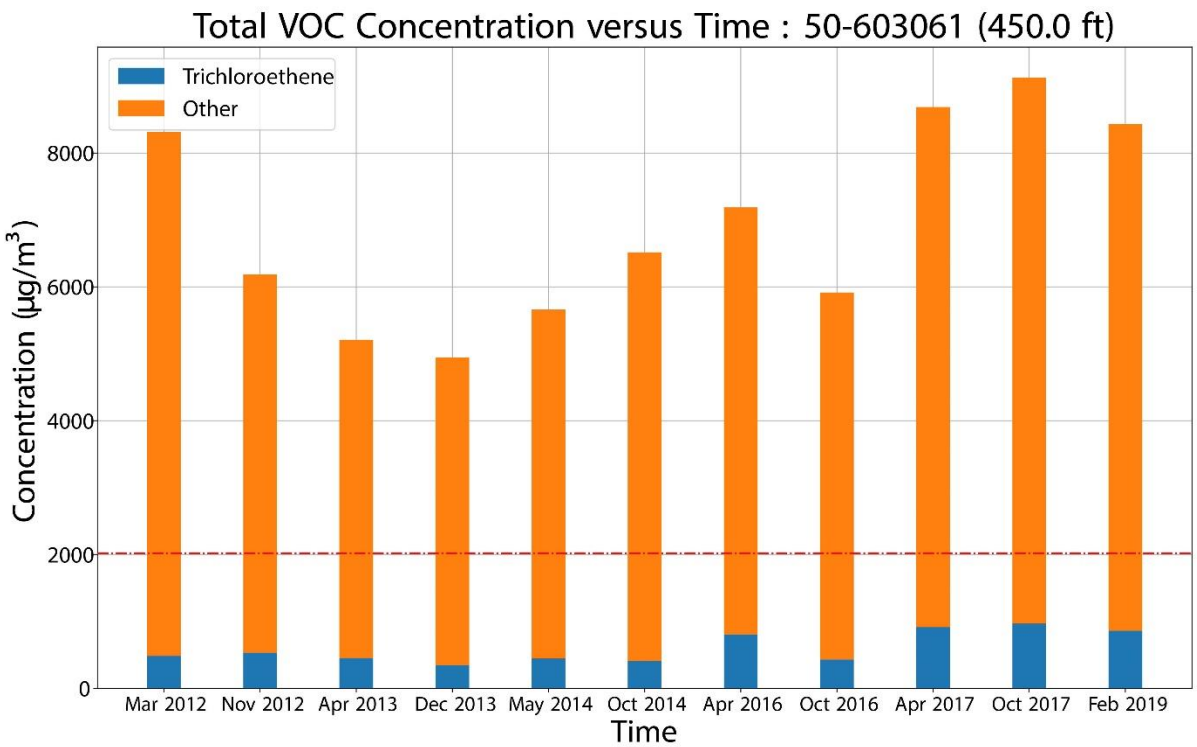

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-4 TCE concentration versus depth and time for borehole 50-603061**



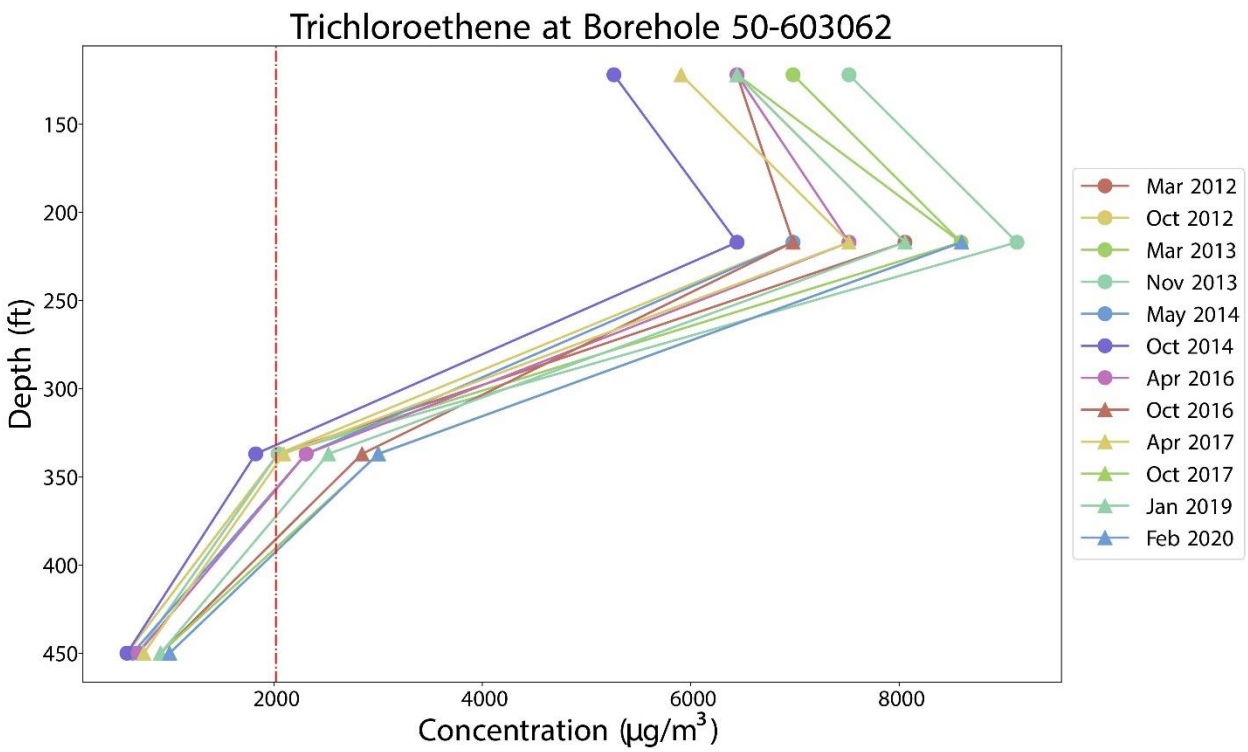

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-5 Total VOC concentration through time at 228 ft bgs for borehole 50-603061**



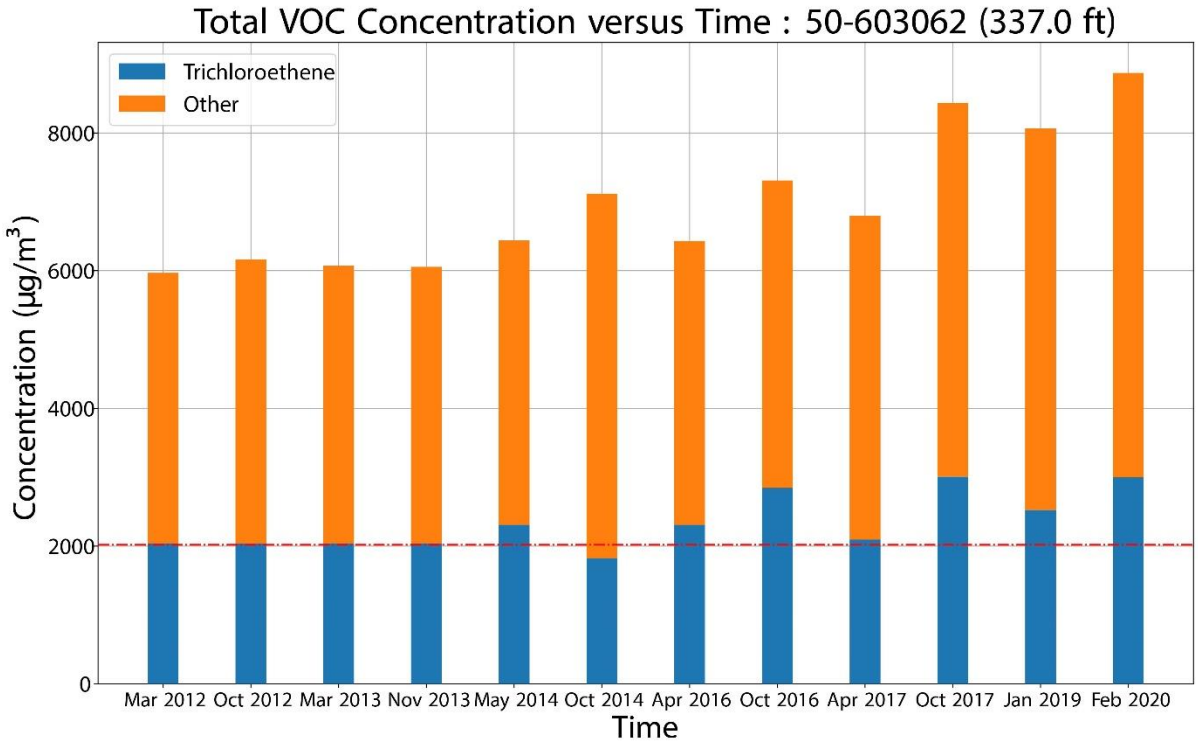

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-6 Total VOC concentration through time at 450 ft bgs for borehole 50-603061**



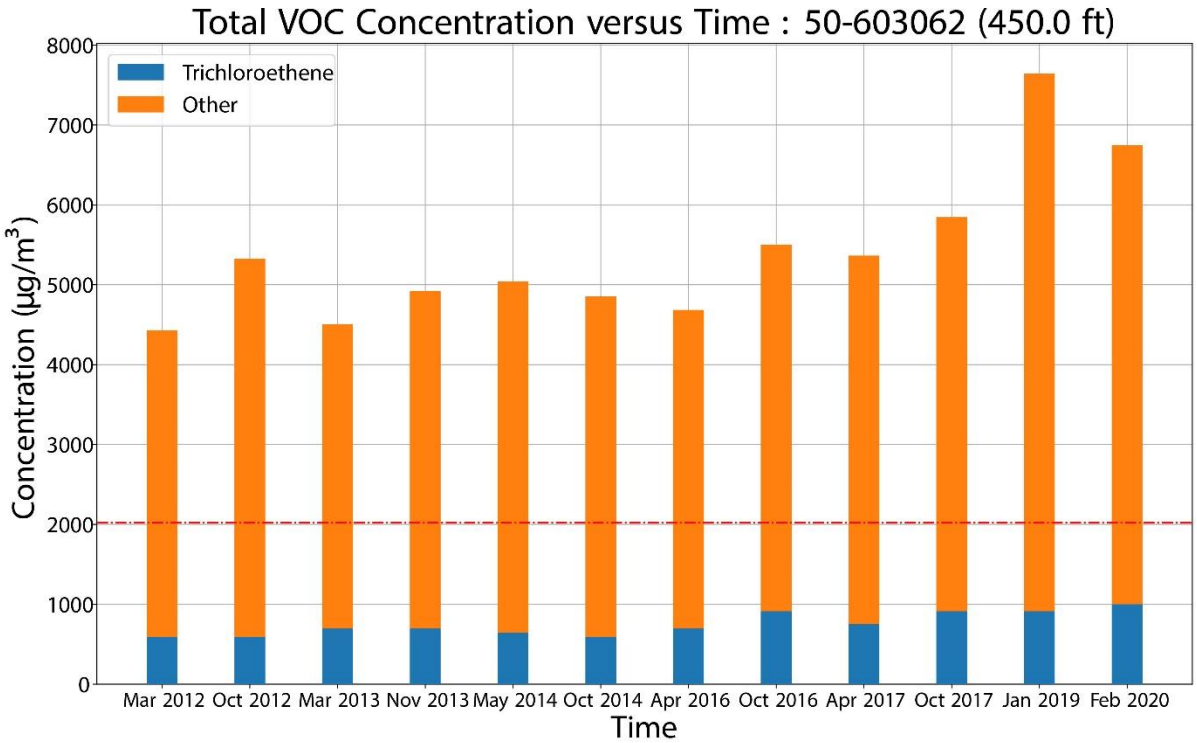

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-7 TCE concentration versus depth and time for borehole 50-603062**



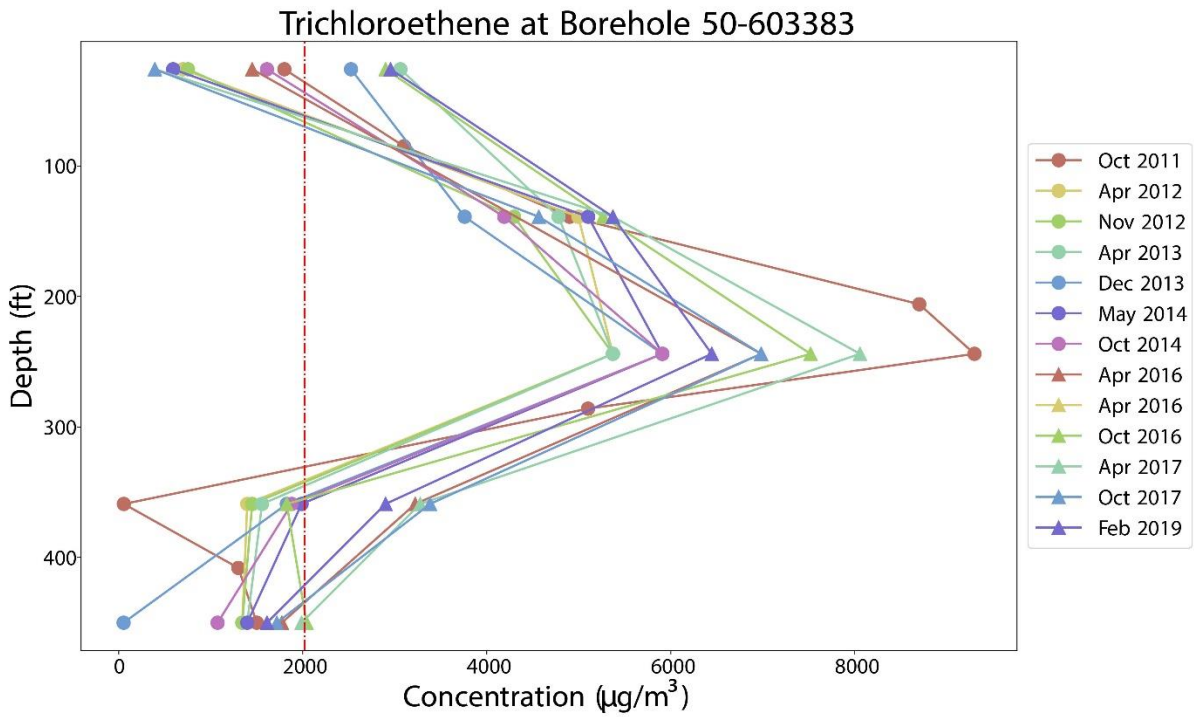

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-8 Total VOC concentration through time at 337 ft bgs for borehole 50-603062**



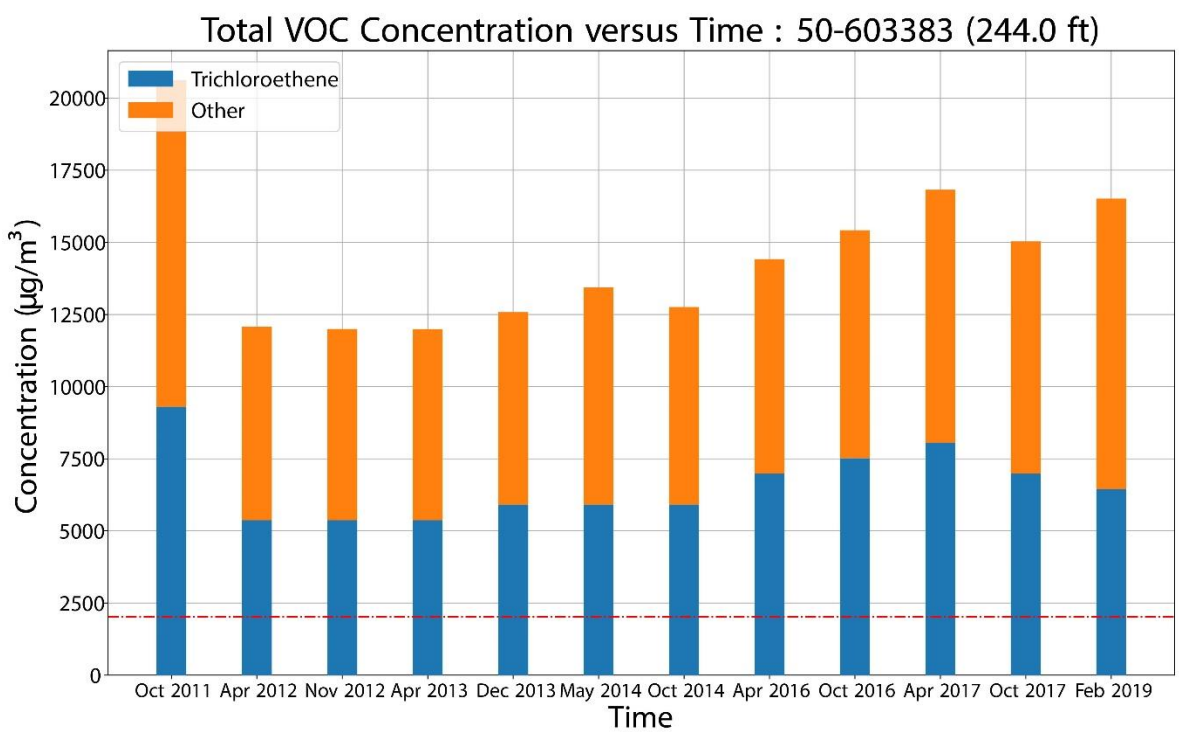

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-9 Total VOC concentration through time at 450 ft bgs for borehole 50-603062**



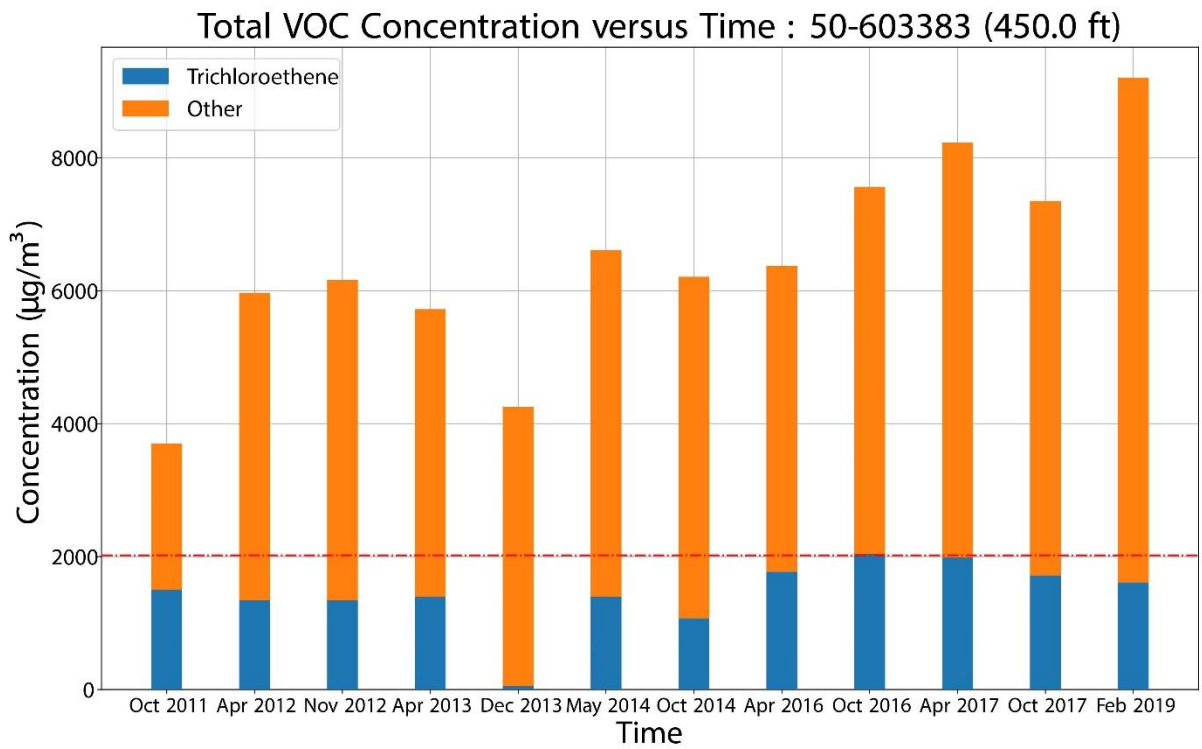

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-10 TCE concentration versus depth and time for borehole 50-603383**



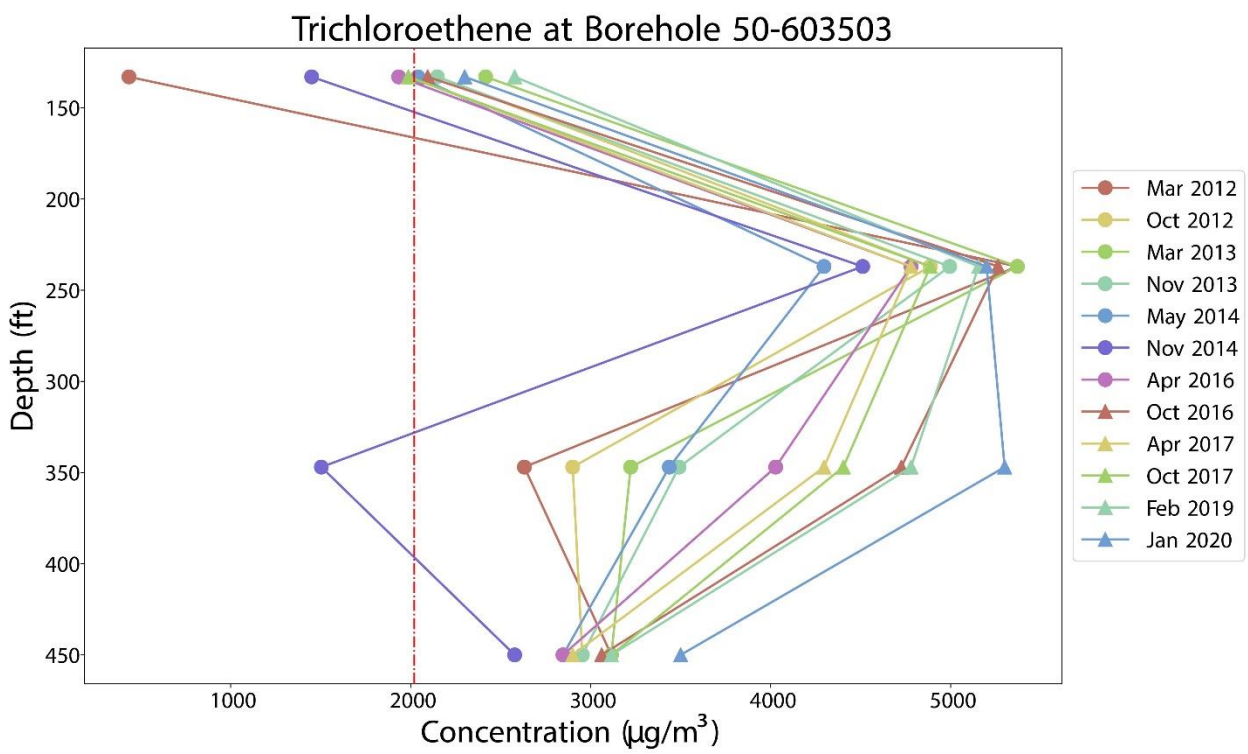

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-11 Total VOC concentration through time at 244 ft bgs for borehole 50-603383**



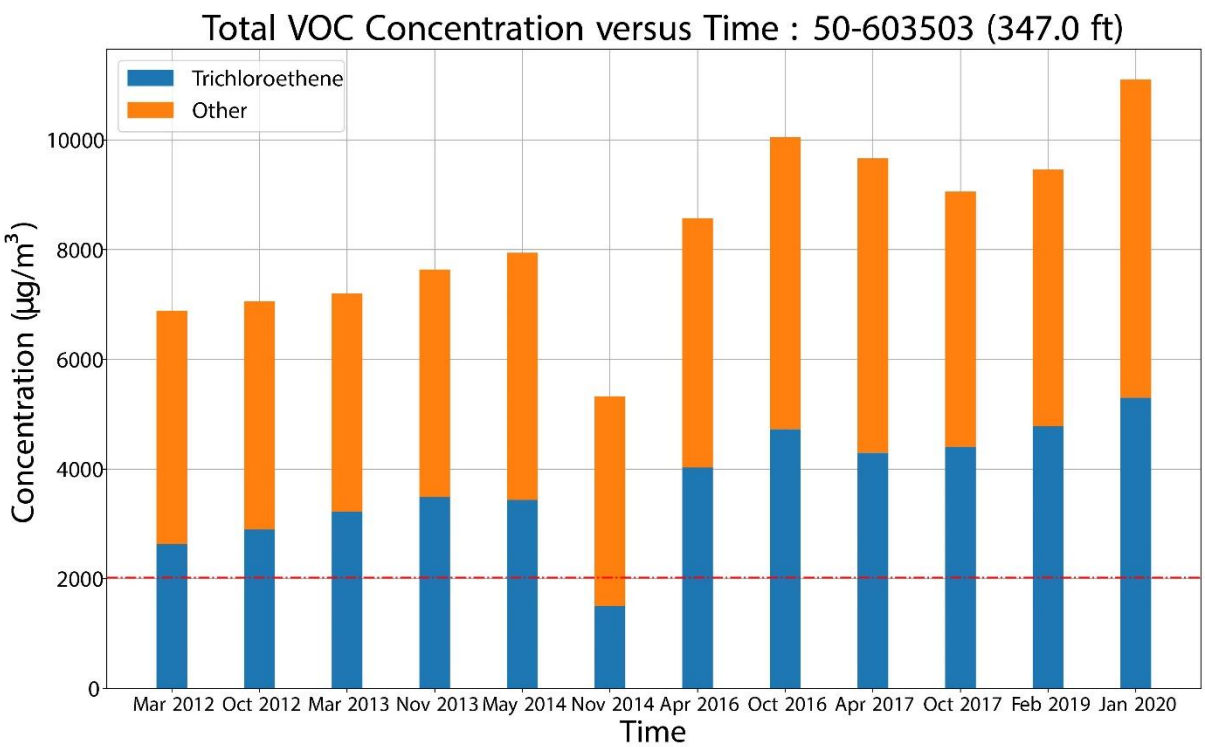

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-12 Total VOC concentration through time at 450 ft bgs for borehole 50-603383**



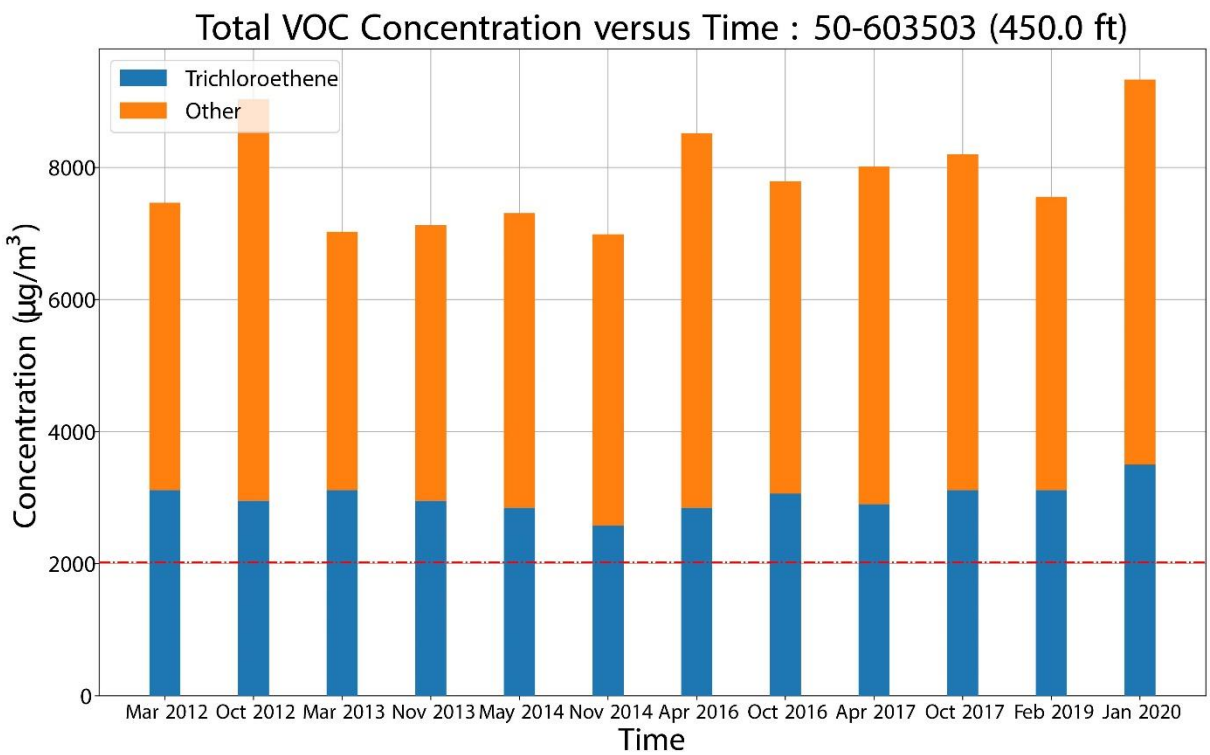

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-13 TCE concentration versus depth and time for borehole 50-603503**



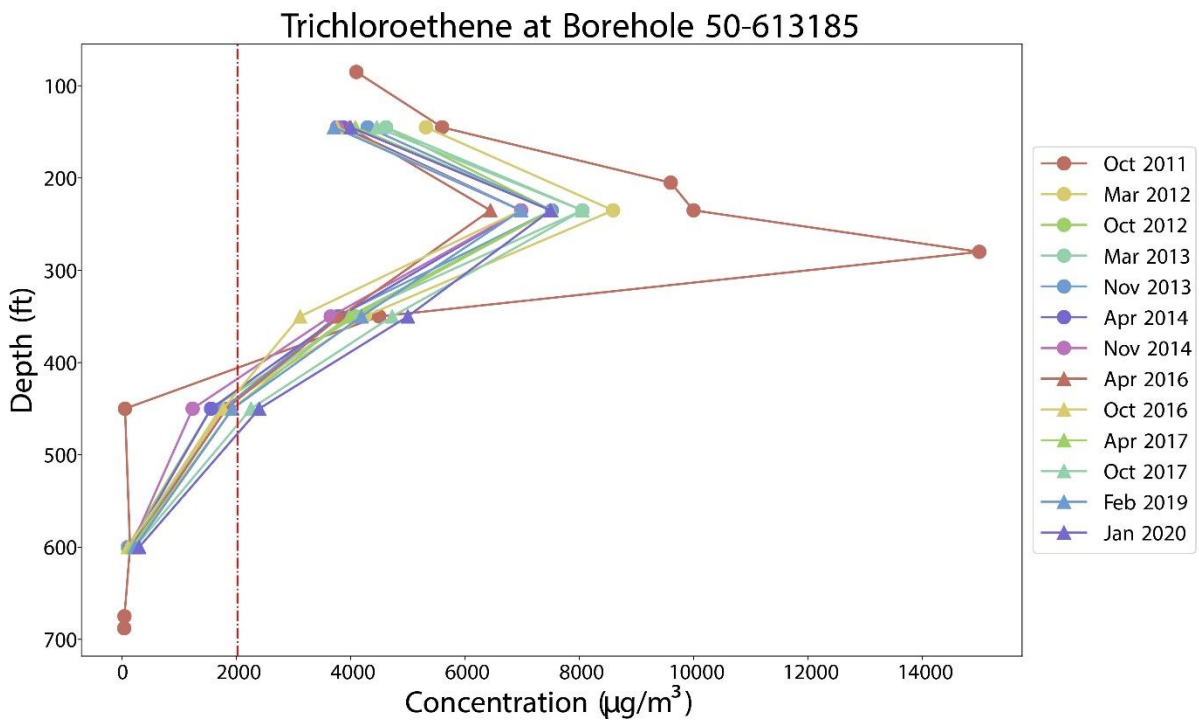

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-14 Total VOC concentration through time at 347 ft bgs for borehole 50-603503**



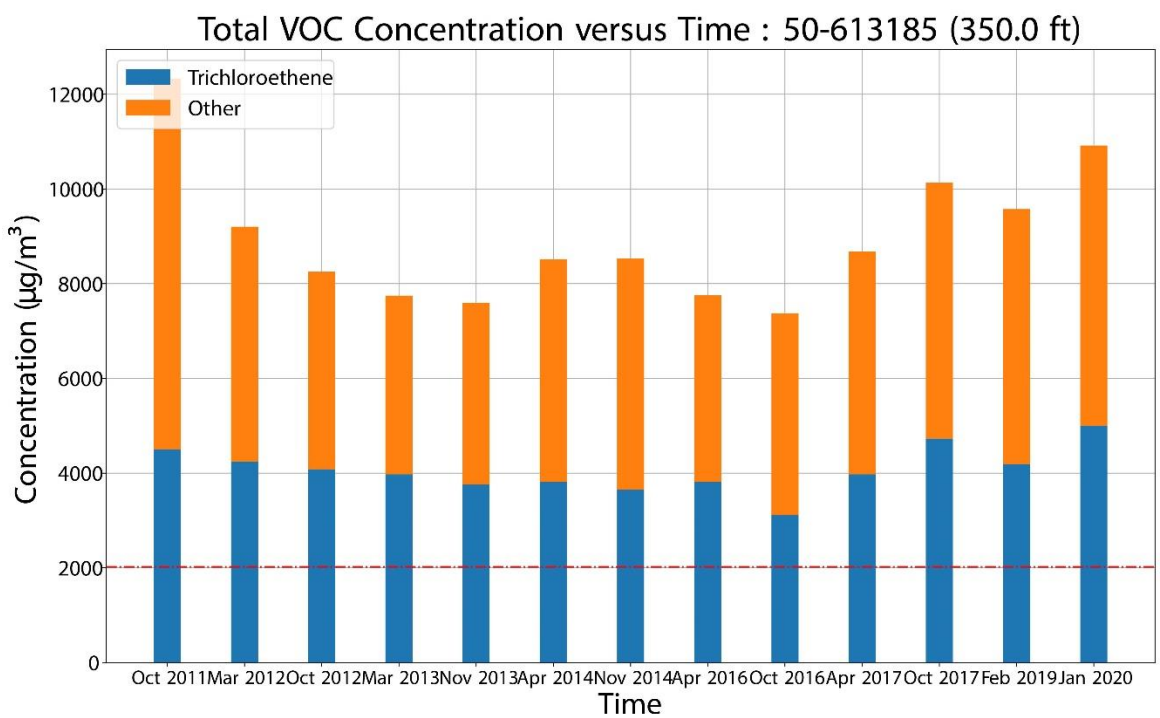

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-15 Total VOC concentration through time at 450 ft bgs for borehole 50-603503**



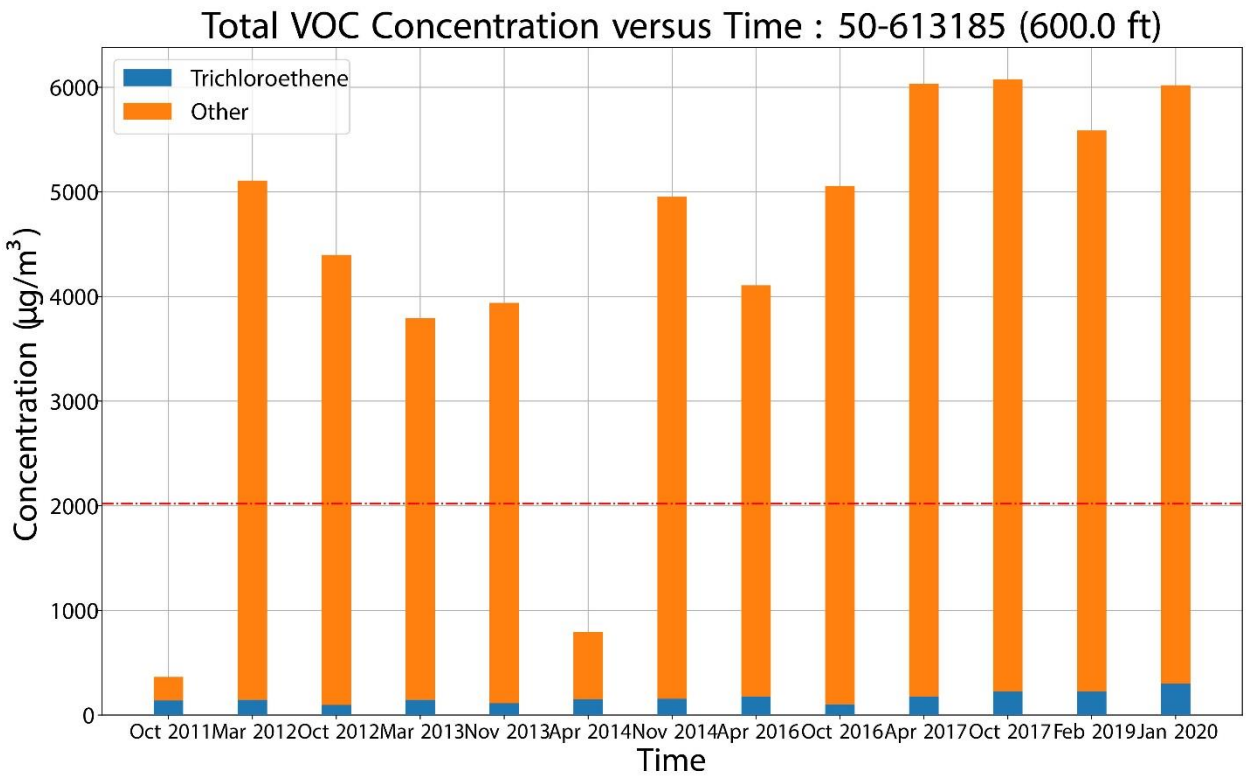

Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-16 TCE concentration versus depth and time for borehole 50-613185**




Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-17 Total VOC concentration through time at 350 ft bgs for borehole 50-613185**




Note: Red dashed line is the 2020-µg/m$^3$ TCE Tier I screening level.

**Figure D-4.0-18 Total VOC concentration through time at 600 ft bgs for borehole 50-613185**

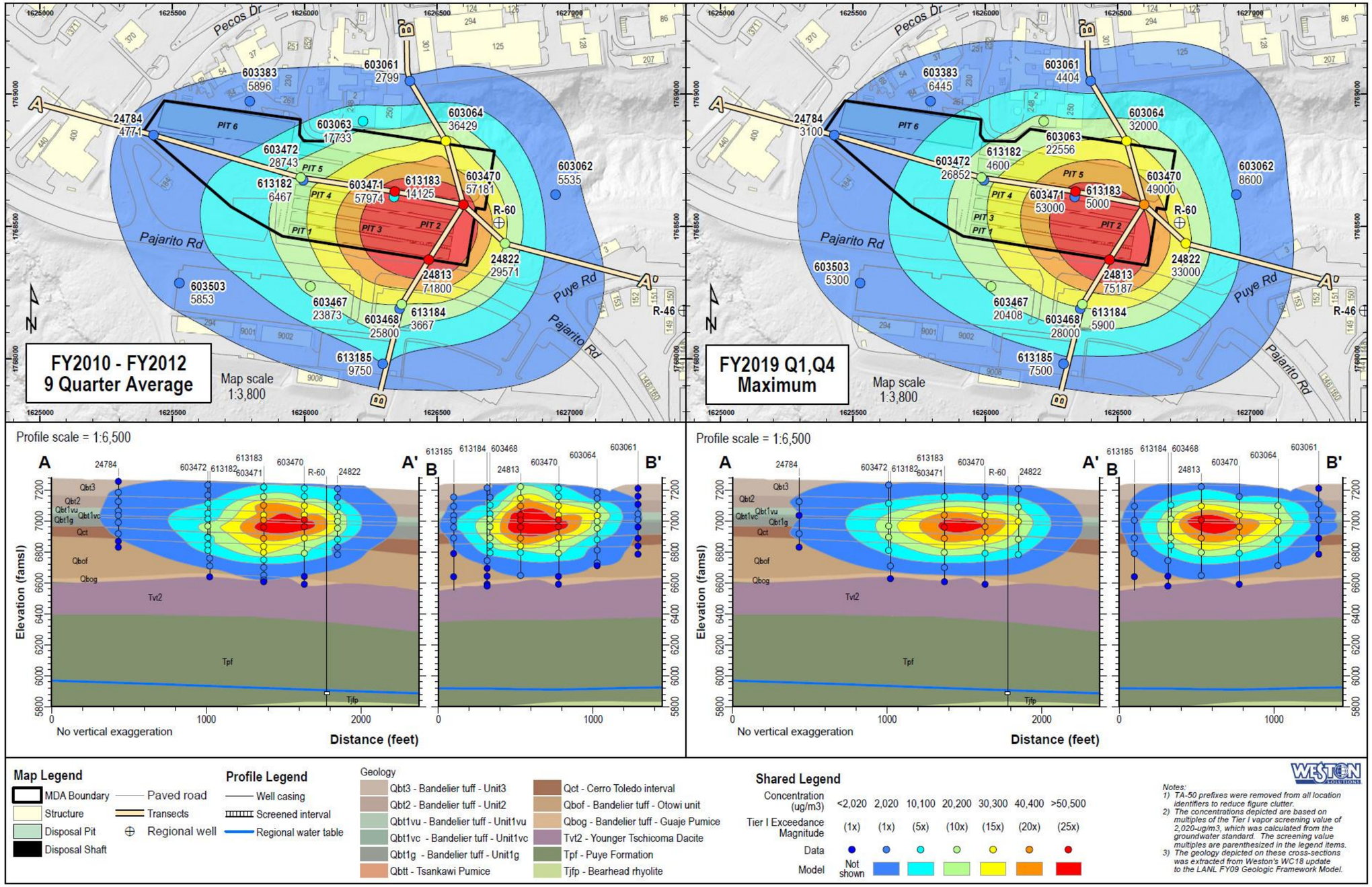



**Figure D-5.0-1** **Lateral and vertical extent of the MDA C TCE plume, baseline (2010-2012 average) vs 2019 maximum measured concentration at each sample port.**

**Table D-1.0-1**
**Boreholes at MDA C**

| Sentry Borehole | Deepest port (ft) | Plume Core/ Intermediate/Periphery |
|---|---|---|
| 50-24784 | 450 | Periphery |
| 50-24813 | 600 | Core |
| 50-24822 | 450 | Intermediate |
| 50-603061 | 450 | Periphery |
| 50-603062 | 450 | Periphery |
| 50-603063 | 450 | Intermediate |
| 50-603064 | 500 | Intermediate |
| 50-603383 | 450 | Periphery |
| 50-603467 | 600 | Intermediate |
| 50-603468/50-613184 | 664.5 | Intermediate |
| 50-603470 | 650 | Core |
| 50-603471/50-613183 | 642.5 | Core |
| 50-603472/50-613182 | 632.5 | Intermediate |
| 50-603503 | 450 | Periphery |
| 50-613185 | 600 | Periphery |

# Appendix E

*Analytical Suites and Results,*
*Analytical Reports, and Sample Collection Logs*
*(on DVD included with this document)*

## E-1.0 INTRODUCTION

This appendix summarizes detected volatile organic compound concentrations and tritium activities for vapor-phase monitoring during the two rounds of calendar year 2019 sampling at Material Disposal Area C.

Data qualifiers used in these tables are defined in Appendix A of this periodic monitoring report.

Notes:

1. The abbreviation ppbv is for parts per billion by volume (i.e., volume of gaseous pollutant per 109 volumes of ambient air).
2. The abbreviation $\mu g/m^3$ is for micrograms of gaseous pollutant per cubic meter of ambient air.