Corrective Measures Effectiveness Report
September 2019 to March 2020 Monitoring Events
Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

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TABLE OF CONTENTS

LIST OF TABLES ..... **II**

LIST OF FIGURES ..... **II**

LIST OF APPENDICES ..... **III**

LIST OF ACRONYMS ..... **IV**

EXECUTIVE SUMMARY **1**

1.0 INTRODUCTION **1-1**

1.1 REPORT ORGANIZATION 1-1

2.0 SITE CHARACTERIZATION **2-1**

2.1 SITE DESCRIPTION AND PHYSICAL SETTING SUMMARY 2-1
2.2 LAND USE AND LAND USE CONTROLS 2-1
2.3 SUMMARY OF PREVIOUS INVESTIGATIONS 2-2
2.4 CORRECTIVE MEASURES 2-2

3.0 SUMMARY OF TENTH YEAR ACTIVITIES **3-1**

3.1 GROUNDWATER SAMPLING 3-1
3.2 MANAGEMENT OF INVESTIGATION DERIVED WASTE 3-2
3.3 DATA QUALITY REVIEW 3-2

4.0 RESULTS OF TENTH YEAR SAMPLING **4-1**

4.1 GROUNDWATER SAMPLING 4-1
4.1.1 Groundwater Levels *4-1*
4.1.2 Groundwater Field Parameter Results *4-1*
4.1.3 Analytical Data and Data Quality Review *4-1*
4.1.4 Summary of Groundwater Analytical Results *4-1*
4.2 CONCENTRATION TRENDS OVER TIME 4-2
4.3 DISTRIBUTION OF CORRECTIVE ACTION COCS IN GROUNDWATER 4-2

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS **5-1**

5.1 SUMMARY OF ACTIVITIES 5-1
5.2 SUMMARY OF RESULTS 5-1
5.3 CONCLUSIONS AND RECOMMENDATIONS 5-2

6.0 REFERENCES **6-1**

LIST OF TABLES

4-1 Groundwater Elevations, September 2019, and March 2020
4-2 Horizontal Hydraulic Gradients, September 2019, and March 2020
4-3 Vertical Hydraulic Gradients, September 2019 and March 2020
4-4 Groundwater Field Parameters, September 2019 and March 2020
4-5 Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Wells

LIST OF FIGURES

1-1 Site Location Map
1-2 Parcel Location Map
3-1 Long-Term Groundwater Monitoring Well Locations
4-1 Estimated Residuum Groundwater Potentiometric Contours, September 2019
4-2 Estimated Bedrock Groundwater Potentiometric Contours, September 2019
4-3 Estimated Residuum Groundwater Potentiometric Contours, March 2020
4-4 Estimated Bedrock Groundwater Potentiometric Contours, March 2020
4-5 Groundwater VOC Concentrations in Residuum Well CWM-183-MW04
4-6 Groundwater VOC Concentrations in Residuum Well CWM-183-MW06
4-7 Groundwater VOC Concentrations in Residuum Well CWM-183-MW07
4-8 Groundwater VOC Concentrations in Residuum Well CWM-183-MW08
4-9 Groundwater VOC Concentrations in Residuum Well CWM-183-MW09
4-10 Groundwater VOC Concentrations in Bedrock Well CWM-183-MW11
4-11 Groundwater VOC Concentrations in Bedrock Well CWM-183-MW13
4-12 Groundwater VOC Concentrations in Bedrock Well CWM-183-MW16
4-13 Groundwater VOC Concentrations in Bedrock Well CWM-183-MW19
4-14 Groundwater VOC Concentrations in Bedrock Well CWM-183-MW20
4-15 Groundwater VOC Concentrations in Residuum Well CWM-183-MW21
4-16 Groundwater VOC Concentrations in Bedrock Well CWM-183-MW22
4-17 Groundwater VOC Concentrations in Residuum Well CWM-183-MW23
4-18 Groundwater VOC Concentrations in Residuum Well CWM-183-MW25
4-19 Estimated Lateral Extent of Corrective Action COC Concentrations in Residuum LTM Wells Exceeding Groundwater RBTLs, September 2019
4-20 Estimated Lateral Extent of Corrective Action COC Concentrations in Bedrock LTM Wells Exceeding Groundwater RBTLs, September 2019
4-21 Estimated Lateral Extent of Corrective Action COC Concentrations in Residuum LTM Wells Exceeding Groundwater RBTLs, March 2020
4-22 Estimated Lateral Extent of Corrective Action COC Concentrations in Bedrock LTM Wells Exceeding Groundwater RBTLs, March 2020

LIST OF APPENDICES

Appendix A Groundwater Levels and Sample Collection Logs
Appendix B Laboratory Data Packages
Appendix C Chain of Custody
Appendix D Data Quality Summary
Appendix E Additional Analytical Data

LIST OF ACRONYMS

ADEM	Alabama Department of Environmental Management
AS	Air sparge
CA	Cleanup Agreement
CMER	Corrective Measures Effectiveness Report
CMIP	Corrective Measures Implementation Report
COC	Constituent of concern
CWM	Chemical Weapons Material
DCA	Dichloroethane
DCE	Dichloroethene
DO	Dissolved oxygen
DPT	Direct Push Technology
DQS	Data Quality Summary
EBS	Environmental Baseline Study
EE/CA	Engineering Evaluation and Cost Analysis
ESE	Environmental Science & Engineering, Inc.
Final RFI	Final Resource Conservation Recovery Act Facility Investigation Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7) (Final RFI) (MES, 2007)
IDW	Investigation Derived Waste
ISB	Insitu bioremediation
IT	IT Corporation
LTM	Long-term monitoring
LUC	Land use control
McClellan	Former Fort McClellan
MDA	McClellan Development Authority
MES	Matrix Environmental Services, LLC
ORP	Oxidation-reduction potential
O&M	Operation and maintenance
Parsons	Parsons Engineering Science, Inc.
PCA	Tetrachloroethane
PCE	Tetrachloroethene
PCMP	Performance Compliance and Monitoring Plan
QA	Quality Assurance
QAP	Quality Assurance Plan (MES, 2004)
RBTL	Risk-Based Target Level
RCRA	Resource Conservation Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SAP	Sampling and Analysis Plan
Shaw	Shaw Environmental, Inc.
SI	Site Investigation
Site	Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
SVE	Soil vapor extraction

SVOC	Semivolatile organic compound
TCA	Trichloroethane
TCE	Trichloroethene
TDS	Total dissolved solids
UIC	Underground Injection Control
VOC	Volatile organic compound

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EXECUTIVE SUMMARY

This Corrective Measures Effectiveness Report (CMER) presents information regarding groundwater remediation at Training Area T-6 (Naylor Field), Parcel 183(6) (Training Area T-6) and Cane Creek Training Area, Parcel 510(7) (Cane Creek Training Area) (collectively referred to as the Site) located at the former Fort McClellan (McClellan) in Anniston, Alabama. Figure 1-1 shows a site map of McClellan and Figure 1-2 shows a parcel location map of the Site. This report was prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA). The purpose of this CMER is to document the effectiveness of the remedial action for contaminated groundwater at the Site during the reporting period from September 2019 to March 2020.

On November 27th, 2013, MES notified the Alabama Department of Environmental Management (ADEM) of the decision to turn off the soil vapor extraction/air sparge system (SVE/AS) and transition to in-situ bioremediation (ISB) in accordance with the ADEM-approved Corrective Measures Implementation Plan (CMIP) for the site.

The remediation plan selected was described in a letter to the department dated February 23, 2015, *Remedy Selection Update/Addendum to Final Corrective Measures Implementation Plan (CMIP) Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 501(7), McClellan, Anniston, Alabama* dated August 2008.

Implementation of the ISB at T-6 was completed January 2015 and included (i) installation of four additional monitoring wells; (ii) using eight existing SVE wells as ISB injection wells; (iii) injection of ISB materials into the eight injection wells to establish a biologically active zone; and (iv) monitoring and reporting as required by the underground injection control (UIC) Permit Number ALSI9908664 and the Cleanup Agreement.

An additional round of ISB injection was performed in the vicinity of monitoring wells CWM-183-MW07, -MW09, and –MW23. This injection event was performed in July/August 2017 as described in the *Remedy Selection Update / Addendum to Final Corrective Measures Implementation Plan Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 501(7), McClellan, Anniston, Alabama* dated June 2017 (MES, 2017).

Groundwater samples were collected during two rounds of sampling in September/October 2019, and in March 2020. The groundwater samples were analyzed for the Corrective Action constituents of concern (COCs) and their degradation products using Environmental Protection Agency (EPA) Methods SW8260B.

The analytical results for the groundwater samples collected were compared to the historical analytical results from previous sampling events, and to the groundskeeper risk-based target levels (RBTLs). Four of the five Corrective Action COCs 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), tetrachloroethene (PCE), and trichloroethene (TCE), and six degradation products, 1,2-dichloroethane (1,2-DCA), chloroethane, chloromethane, cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, and vinyl chloride, exceeded the groundskeeper RBTLs in groundwater collected at the Site during the semi-annual sampling events of this reporting period. In wells CWM-183-MW04, CWM-183-MW16, CWM-183-

MW20, CWM-183-MW21 and CWM-183-MW22 only the vinyl chloride RBTL was exceeded. One or more of the Corrective Action COCs or degradation products RBTLs were exceeded in wells CWM-183-MW09, CWM-183-MW13 and CWM-183-MW23.

MDA has implemented three rounds of groundwater remediation (SVE/AS followed by two rounds of ISB) at the site with some improvement observed after each round. Although RBTLs are exceeded, many of the exceedances represent decomposition products of the initial chlorinated compound contaminants indicating the remediation process has been effective in decreasing the concentrations of Corrective Action COCs.

1.0 INTRODUCTION

This Corrective Measures Effectiveness Report (CMER) presents information regarding groundwater remediation at Training Area T-6 (Naylor Field), Parcel 183(6) (Training Area T-6) and Cane Creek Training Area, Parcel 510(7) (Cane Creek Training Area) (collectively referred to as the Site) located at the former Fort McClellan (McClellan) in Anniston, Alabama. Figure 1-1 shows a site map of McClellan and Figure 1-2 shows a parcel location map of the Site. This report was prepared by Matrix Environmental Services, LLC (MES) on behalf of the McClellan Development Authority (MDA). The purpose of this CMER is to document the effectiveness of the remedial action for contaminated groundwater at the Site during the reporting period from September 2019 to March 2020.

1.1 Report Organization

This CMER is organized as follows:

- Section 1.0 - summarizes the project background, purpose of the CMER, and report organization.
- Section 2.0 - presents a summary of the Site characterization.
- Section 3.0 - describes the activities conducted during this reporting period.
- Section 4.0 - presents the results during this reporting period.
- Section 5.0 - presents the summary, conclusions, and recommendations.
- Section 6.0 - provides the references cited in this report.
- Tables that support the CMER.
- Figures that support the CMER.
- Appendix A contains the Groundwater Levels and Sample Collection Logs.
- Appendix B contains the Laboratory Data Packages.
- Appendix C contains the Chain-of-Custody Records.
- Appendix D contains the Data Quality Summary and Lab Data Sheets.
- Appendix E contains Additional Analytical Data.

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2.0 SITE CHARACTERIZATION

This section summarizes the Site description and physical setting, geology, soil, hydrogeology, previous investigations, land use, and contaminant conditions at the Site.

2.1 Site Description and Physical Setting Summary

Training Area T-6, historically known as the Howitzer Hill Decontamination Area or the Former Agent Decontamination Training Area, is a wooded area approximately 10 acres in size, located at the base of the northeastern slope of Howitzer Hill, west of Fox Road and the South Branch of Cane Creek in the west central area of McClellan (Figure 1-2). Training Area T-6 was used by the Army for training exercises sometime prior to 1954 until 1973. Decontamination of chemical weapons material (CWM) was performed at Training Area T-6 during routine military training exercises. The training sites consisted of concrete pads and a network of drainage ditches and trenches, where the decontamination agents and CWM were rinsed and collected and may have drained to a shallow pond.

The Cane Creek Training Area is currently a vacant, wooded parcel located adjacent to and northeast of Training Area T-6 across Fox Road and south of Derby Street, in the west central portion of McClellan (Figure 1-2). The Cane Creek Training Area is approximately 2 acres in size and straddles the South Branch of Cane Creek. In 1958, this area was reportedly used for training in decontamination procedures of military equipment, but it is unknown if toxic agents were used (Shaw, 2004). Historical aerial photographs indicated an abundance of activity at Cane Creek Training Area from the early 1940s until approximately 1969. A majority of the activities in the photographs appear to be related to the clearing of trails within the area, especially in the north/northwestern portion of the parcel.

2.2 Land Use and Land Use Controls

Proposed future land use for Training Area T-6 is an adult educational campus and the proposed future land use for the Cane Creek Training Area is as passive recreation to be included as part of the McClellan Park System, as proposed in the Re-Use Plan (November 1997 [EDAW Inc., 1997]), amended in June 2005.

Land use controls (LUCs) at the Site include a prohibition on consumptive use or direct contact with groundwater and installation of any well for extraction of groundwater for purposes of consumptive or other uses. LUCs also prohibit public access and use of the property for any purpose until the remedy is completed. In accordance with the Cleanup Agreement (CA) and Alabama Uniform Environmental Covenants Act, Code of Alabama 1975, §§ 35-19-14, and the Alabama Department of Environmental Management (ADEM) Admin Code 335-5, effective May 26, 2009, MDA filed Environmental Covenant No. FY-12-06.00 in Calhoun County Probate on March 07, 2013 which documents the LUCs.

2.3 Summary of Previous Investigations

Investigative activities at the Site were conducted in multiple phases from 1998 to 2005 by several contractors to the Army and the MDA, including Environmental Science & Engineering, Inc. (ESE), Parsons Engineering Science, Inc. (Parsons), Shaw Environmental, Inc. (Shaw), and MES. Previous investigations include:

- 1998 Environmental Baseline Study (EBS) (ESE, 1998)
- Army Soil Sampling (1973 and 1992) (Shaw, 2004)
- Engineering Evaluation and Cost Analysis (EE/CA) (Parsons, 2002)
- Site Investigation (SI) and Remedial Investigation (RI) (Shaw, 2004)
- 2004/2005 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) (MES, 2007)

2.4 Corrective Measures

Based on the data assessment and risk analysis screening performed in the *Final CMIP*, VOCs 1,1,2,2-tetrachloroethane (1,1,2,2-PCA), 1,1,2-trichloroethane (1,1,2-TCA), chloroform, tetrachloroethene (PCE), and trichloroethene (TCE) in groundwater are considered human health Corrective Action Constituents of Concern (COCs) at the Site. Based on the data assessment presented in the *Final CMIP (MES, 2008),* no ecological Corrective Action COCs were identified in media at the Site.

In late 2009, soil vapor extraction and air sparging (SVE/AS) corrective measures were initiated at the Site as outlined in the *Final CMIP* (MES, 2008) to reduce concentrations of VOCs in groundwater at the Site to levels acceptable for industrial use. Details of the corrective measures activities are documented in the *Final Corrective Measures Implementation Report (CMIR), Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)* (*CMIR*) (MES, 2012).

On November 27, 2013, MES notified the Alabama Department of Environmental Management (ADEM) of the decision to turn off the SVE/AS system and transition to in-situ bioremediation (ISB) in accordance with the ADEM-approved CMIP for the site. The remediation involved injection of emulsified vegetable oil and a bioaugmentation culture (bacteria) into the eight existing SVE wells and was implemented in January 2015 in accordance with UIC Permit ALSI9908664. An additional round of ISB injection was performed in the vicinity of monitoring wells CWM-183-MW07, -MW09, and –MW23 in July/August 2017.

3.0 SUMMARY OF TENTH YEAR ACTIVITIES

The following activities were performed during the September 2019 and March 2020 monitoring events:

- Collected groundwater samples and groundwater level measurements from the long-term monitoring (LTM) network wells during two semi-annual sampling events in September/October 2019 and March 2020.
- Samples from monitoring wells CWM-183-MW04, CWM-183-MW06, CWM-183-MW11, CWM-183-MW13, and CWM-183-MW23 were analyzed for Corrective Action COCs and degradation products, Ethane, Ethene, and Methane, and total organic carbon during the two sampling events and CWM-183-MW07 and CWM-183-MW09 were analyzed for the same constituents during the March 2020 event only as these wells were either dry or did not have sufficient water for sample collection in September/October 2019.
- Samples from monitoring wells CWM-183-MW08, CWM-183-MW16, CWM-183-MW17, CWM-183-MW19, CWM-183-MW20, CWM-183-MW21, CWM-183-MW22, CWM-183-MW25, CWM-183-MW28, and CWM-183-MW31 were analyzed for Corrective Action COCs and degradation products during the two sampling events.
- Samples from monitoring well CWM-183-MW03 were analyzed for anions Ammonia, Nitrate and Sulfate during September/October 2019 and samples from CWM-183-MW15 were analyzed for Corrective Action COCs and degradation products during the two sampling events and anions Ammonia, Nitrate and Sulfate during the September/October 2019.

3.1 Groundwater Sampling

Groundwater samples were collected from the LTM wells during the two semi-annual sampling events in September/October 2019 and March 2020. Figure 3-1 shows the locations of the LTM groundwater wells.

The groundwater samples were collected in accordance with methodology presented in the *Final, Revision 2 Installation-Wide Sampling and Analysis Plan* (MES, 2016) (SAP). Before groundwater samples were collected, groundwater levels were measured to the nearest hundredth of a foot using a Solinst™ water level indicator and recorded. The groundwater samples were collected using low-flow sampling procedures, i.e., using an adjustable rate pump to remove water from the screened interval of a monitoring well at a rate that produces minimal drawdown of the groundwater in the well, as well as turbidity in the sample. Polyethylene tubing leading from the discharge side of the submersible pump was connected to a flow-through cell equipped with a YSI Model 556 MPS Multiprobe Water Quality Meter to measure chemical and physical parameters within the groundwater. Measurements of chemical and physical parameters were used to indicate when groundwater quality stabilized and sampling could begin. Chemical and physical field screening parameters included pH, conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS), turbidity, and temperature.

Groundwater levels, pumping rate, and volume of groundwater removed were also recorded. The monitoring well sample collection logs are provided in Appendix A.

Groundwater samples were collected from the polyethylene tubing after field screening data stabilized. Laboratory-supplied sample bottles were filled, labeled, placed in a chilled cooler, and shipped under chain-of-custody procedures to TestAmerica Laboratories Inc., Savannah, Georgia. The chain-of-custody forms for the groundwater samples collected during the sampling events are provided in Appendix C. The groundwater samples were analyzed for Corrective Action COCs 1,1,2,2-PCA, 1,1,2-TCA, chloroform, PCE, and TCE and the degradation products of the Corrective Action COCs, i.e., 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), chloroethane, chloromethane, cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), methylene chloride, and vinyl chloride using Method SW8260B.

3.2 Management of Investigation Derived Waste

Investigative derived waste (IDW) was managed as described in the *SAP* (MES, 2016). The aqueous IDW generated during the groundwater sampling was collected and containerized in a 55-gallon drum stored on a wooden pallet adjacent to the remediation system shelter.

3.3 Data Quality Review

MES reviewed the analytical data for the groundwater samples in accordance with the *Quality Assurance Plan (QAP)* (MES, 2004) to assess compliance with the Quality Assurance (QA) objectives, and to assess hard copy and electronic deliverable consistency and integrity. Appendix B presents the analytical data collected during the semi-annual sampling events. The Data Quality Summary (DQS) for the groundwater is included in Appendix D.

4.0 RESULTS OF TENTH YEAR SAMPLING

This section discusses the results of the groundwater samples collected at the Site during this reporting period.

4.1 Groundwater Sampling

This section discusses the results of the groundwater sampling events at the Site.

4.1.1 Groundwater Levels

Groundwater elevations measured during the groundwater sampling events are presented in Table 4-1. The depth to water in the residuum wells was on average 11.5 feet higher in March 2020 compared to September/October 2019 and reflects the 30.6 inch rainfall record received in Anniston during the first three months of 2020. The depth to water in the bedrock wells was somewhat dampened and on average was 6.3 feet higher in March 2020 compared to September/October 2019. Figures 4-1 to 4-4 show groundwater elevations and potentiometric surface contour lines for the LTM wells for the September/October 2019 and March 2020 sampling events.

Groundwater flow within the residuum wells generally conformed to surface topography and flowed predominately to the northeast towards South Branch of Cane Creek. To further aid in assessing groundwater flow at the Site, horizontal and vertical hydraulic gradients were calculated and are presented in Tables 4-2 and 4-3, respectively.

4.1.2 Groundwater Field Parameter Results

Measurements of field screening parameters, including pH, conductivity, DO, ORP, TDS, turbidity, and temperature, were measured. The field parameters for the groundwater samples are summarized in Table 4-4.

4.1.3 Analytical Data and Data Quality Review

The analytical data for the two semi-annual sampling events are provided in Appendix B. Appendix D provides the data quality summary. MES reviewed the analytical data in accordance with the *QAP* (MES, 2004). Based on the data quality review, the analytical data generated for these monitoring events are adequate to fulfill program objectives and are suitable for preparation of this report. A more detailed discussion of the analytical results can be found in the DQS provided in Appendix D.

4.1.4 Summary of Groundwater Analytical Results

The analytical results for the groundwater samples collected from September/October 2019 to March 2020 are included with the historical analytical results from previous sampling events in Table 4-5. In addition, the VOC concentrations detected in the groundwater samples were compared to the groundskeeper RBTLs in Table 4-5. Four of the five Corrective Action COCs 1,1,2,2-PCA, 1,1,2-TCA, PCE, and TCE, and six degradation products, 1,2-DCA, chloroethane,

chloromethane, cis-1,2-DCE, methylene chloride, and vinyl chloride, exceeded the groundskeeper RBTLs in groundwater collected at the Site during the semi-annual sampling events of this reporting period. In wells CWM-183-MW04, CWM-183-MW16, CWM-183-MW20, CWM-183-MW21 and CWM-183-MW22 only the Vinyl Chloride RBTL was exceeded. One or more of the Corrective Action COCs or degradation products RBTLs were exceeded in wells CWM-183-MW09, CWM-183-MW13 and CWM-183-MW23.

4.2 Concentration Trends Over Time

With few exceptions, the Corrective Action COC concentrations have generally shown decreasing concentrations with concomitant increases in daughter product concentrations over time from the February 2010 to the March 2020 sampling event with notable changes following ISB implementation in 2015 and 2017. A slight uptick in constituent concentrations observed in some wells during the March 2020 sampling event might be attributed to the above normal rainfall prior to sampling which may have served to flush the underlying soils of contaminants. Figures 4-5 to 4-18 show the trends and changes in concentration over time for the Corrective Action COCs and the degradation product vinyl chloride in the LTM groundwater wells.

Figure E-1 in Appendix E depicts the chlorinated ethene and chlorinated ethane degradation pathways occurring at the Site. Biological degradation products of PCE and TCE include cis-1,2-DCE, vinyl chloride, and the fully dechlorinated end product ethene. Biological reductive dechlorination breakdown products of 1,1,2,2-PCA include 1,1,2-TCA, 1,2-DCA, and chloroethane, although the more common pathway for 1,1,2,2-PCA degradation is by dehaloelimination to trans-1,2-DCE and by the elimination reaction of 1,1,2,2-PCA to TCE. Both TCE and trans-1,2-DCE follow the reductive dechlorination pathway to ethene (SiREM, 2014). Figure E-1 shows some fluctuations, but overall decreases in Corrective Action COCs and increases in degradation products were observed and indicates reductive dechlorination is occurring in the monitoring wells.

4.3 Distribution of Corrective Action COCs in Groundwater

Figures 4-19 to 4-22 present the estimated lateral extent of 1,1,2,2-PCA, PCE and TCE concentrations exceeding the groundskeeper RBTLs in groundwater at the Site for the September/October 2019 and March 2020 sampling events. These plume maps show the area exceeding the groundskeeper RBTLs for three of the five Corrective Action COCs, with the exception of 1,1,2-TCA and chloroform. 1,1,2-TCA was only detected above groundskeeper RBTL in monitoring well CWM-183-MW23 and Chloroform was not detected above the groundskeeper RBTL in any wells during the tenth year of monitoring.

The concentrations of 1,1,2,2-PCA, 1,1,2-TCA, PCE, and TCE exceeding the groundskeeper RBTLs in groundwater occurred in wells CWM-183-MW09, CWM-183-MW13 and CWM-183-MW23. The degradation Corrective Action COC Vinyl Chloride was detected above the RBTL in CWM-183-04, CWM-183-MW09, CWM-183-MW13, CWM-183-MW16, CWM-183-MW20, CWM-183-MW21, CWM-183-MW22 and CWM-183-MW23.

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This section summarizes the activities performed during the reporting period from September/October 2019 to March 2020 and presents the results, conclusions, and recommendations. The groundwater monitoring events were performed to meet the recommendations of the *Final CMI Plan* (MES, 2008). The purpose of this CMER is to demonstrate the effectiveness of the selected remedy for groundwater contamination at the Site.

5.1 Summary of Activities

Activities conducted at the Site included:

- Collected groundwater samples and groundwater level measurements from the long-term monitoring (LTM) network wells during two semi-annual sampling events in September/October 2019 and March 2020.
- Samples from monitoring wells CWM-183-MW04, CWM-183-MW06, CWM-183-MW11, CWM-183-MW13, and CWM-183-MW23 were analyzed for Corrective Action COCs and degradation products, Ethane, Ethene, and Methane, and total organic carbon during the two sampling events and CWM-183-MW07 and CWM-183-MW09 were analyzed for the same constituents during the March 2020 event only as these wells were either dry or did not have sufficient water for sample collection in September/October 2019.
- Samples from monitoring wells CWM-183-MW08, CWM-183-MW16, CWM-183-MW17, CWM-183-MW19, CWM-183-MW20, CWM-183-MW21, CWM-183-MW22, CWM-183-MW25, CWM-183-MW28, and CWM-183-MW31 were analyzed for Corrective Action COCs and degradation products during the two sampling events.
- Samples from monitoring well CWM-183-MW03 were analyzed for anions Ammonia, Nitrate and Sulfate during September/October 2019 and samples from CWM-183-MW15 were analyzed for Corrective Action COCs and degradation products during the two sampling events and anions Ammonia, Nitrate and Sulfate during the September/October 2019.

5.2 Summary of Results

Of the five Corrective Action COCs and eight degradation products, detections for four of the Corrective Action COCs (1,1,2,2-PCA, 1,1,2-TCA, PCE, and TCE) and six degradation products (1,2-DCA, chloroethane, chloromethane, cis-1,2-DCE, methylene chloride, and vinyl chloride) exceeded the groundskeeper RBTLs in groundwater collected at the Site during this reporting period. Figures 4-19 to 4-22 show the estimated horizontal extent of 1,1,2,2-PCA, PCE, and TCE concentrations exceeding RBTLs in groundwater. Chloroform was not detected above the groundskeeper RBTL in any wells and 1,1,2-TCA was only detected above the RBTL in CWM-183-MW23. The concentrations of 1,1,2,2-PCA, PCE, and TCE exceeding the groundskeeper RBTLs in groundwater occurred in wells CWM-183-MW09, CWM-183-MW13 and CWM-183-MW23 as indicated in Figures 4-19 to 4-22.

5.3 Conclusions and Recommendations

This CMER presents results from continued groundwater monitoring at the Site. SVE/AS remediation was implemented at the Site between 2010 and 2013 and was followed up by two rounds of ISB in January 2015 and August 2017 in accordance with UIC permit Number ALSI9908664. Remediation has been effective in decreasing the concentrations of Corrective Action COCs as demonstrated by the increases in daughter products. Elevated concentrations of Corrective Action COCs are still present in CWM-183-MW23, however conditions are favorable for continued reductive dichlorination as indicated by negative ORP and elevated concentrations of methane. MDA proposes to continue groundwater monitoring.

6.0 REFERENCES

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TABLES

Table 4-1: Groundwater Elevations, September 2019 and March 2020 Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7) McClellan, Anniston, Alabama

Well Location	Well Type	Ground Elevation (feet msl)	Top of Casing Elevation (feet msl)	Date Measured	Well Depth (feet BTOC)	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
September 2019							
CC-510-MW01	residuum	782.35	784.46	9/23/19	8.18	Dry	Dry
CC-510-MW02	residuum	783.18	785.5	9/23/19	12.58	8.56	776.94
CC-510-MW04	residuum	787.36	789.6	9/23/19	16.89	10.03	779.57
CWM-183-MW01	residuum	853.77	855.91	9/23/19	51.71	33.50	822.41
CWM-183-MW02	residuum	827.94	829.71	9/23/19	38.50	17.57	812.14
CWM-183-MW03	residuum	788.81	790.81	9/23/19	18.11	10.71	780.10
CWM-183-MW04	residuum	798.34	800.51	9/23/19	22.31	18.19	782.32
CWM-183-MW05	residuum	796.48	798.55	9/23/19	13.00	12.88	785.67
CWM-183-MW06	residuum	808.91	810.92	9/23/19	31.89	25.60	785.32
CWM-183-MW07	residuum	798.83	800.93	9/23/19	19.35	18.43	782.50
CWM-183-MW08	residuum	796.74	798.76	9/23/19	20.00	16.84	781.92
CWM-183-MW09	residuum	806.95	809.18	9/23/19	27.80	27.05	782.13
CWM-183-MW10	residuum	799.96	802.01	9/23/19	22.83	19.93	782.08
CWM-183-MW11	bedrock	807.07	809.25	9/23/19	102.00	27.25	782.00
CWM-183-MW12	residuum	813.03	815.36	9/23/19	46.85	33.16	782.20
CWM-183-MW13	bedrock	799.60	801.81	9/23/19	57.95	20.18	781.63
CWM-183-MW14	residuum	792.11	794.43	9/23/19	22.70	13.41	781.02
CWM-183-MW15	residuum	790.82	793.21	9/23/19	25.45	11.64	781.57
CWM-183-MW16	bedrock	790.88	793.13	9/23/19	86.40	11.51	781.62
CWM-183-MW17	bedrock	788.60	790.78	9/23/19	46.60	10.67	780.11
CWM-183-MW18	residuum	787.08	786.93	9/23/19	14.35	6.29	780.64
CWM-183-MW19	bedrock	787.17	787.06	9/23/19	99.56	8.62	778.44
CWM-183-MW20	bedrock	796.41	798.81	9/23/19	77.79	16.88	781.93
CWM-183-MW21	residuum	811.70	813.92	9/23/19	41.58	30.81	783.11
CWM-183-MW22	bedrock	812.28	814.59	9/23/19	65.73	31.50	783.09
CWM-183-MW23	residuum	819.93	822.28	9/23/19	50.50	32.58	789.70
CWM-183-MW24	residuum	804.89	807.23	9/23/19	31.24	25.28	781.95
CWM-183-MW25	residuum	798.38	798.08	9/23/19	26.45	16.40	781.68
CWM-183-MW26	residuum	791.05	793.47	9/23/19	22.68	12.41	781.06
CWM-183-MW27	bedrock	788.29	790.87	9/23/19	67.86	10.94	779.93
CWM-183-MW28	bedrock	799.40	802.34	9/23/19	200.80	20.67	781.67
CWM-183-MW29	bedrock	800.73	803.16	9/23/19	98.95	21.51	781.65
CWM-183-MW30	bedrock	788.70	791.29	9/23/19	190.11	9.35	781.94
CWM-183-MW31	bedrock	786.73	789.22	9/23/19	204.80	8.55	780.67
CWM-183-MW32	bedrock	808.37	810.53	9/23/19	43.00	25.38	785.15
CWM-183-MW33	bedrock	798.14	800.58	9/23/19	30.26	18.92	781.66
CWM-183-MW34	bedrock	807.71	809.78	9/23/19	59.00	27.27	782.51
CWM-183-MW35	bedrock	798.04	800.4	9/23/19	41.76	18.75	781.65
T6-SVE-01	residuum	806.40	809.7	9/23/19	33.00	21.31	788.39
T6-SVE-02	residuum	795.60	799	9/23/19	24.50	17.36	781.64
T6-SVE-03	residuum	812.70	816.3	9/23/19	38.00	31.39	784.91
T6-SVE-04	residuum	797.50	800.9	9/23/19	28.81	18.87	782.03
T6-SVE-05	residuum	814.60	817.9	9/23/19	42.37	31.46	786.44
T6-SVE-06	residuum	800.00	803.2	9/23/19	19.38	20.34	782.86
T6-SVE-07	residuum	811.90	815.4	9/23/19	36.95	31.89	783.51
T6-SVE-08	residuum	798.60	801.7	9/23/19	14.88	15.59	786.11

Table 4-1: Groundwater Elevations,
September 2019 and March 2020
Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Well Location	Well Type	Ground Elevation (feet msl)	Top of Casing Elevation (feet msl)	Date Measured	Well Depth (feet BTOC)	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
T6-AS-01	bedrock	800.00	803.3	9/23/19	85.90	21.28	782.02
T6-AS-02	bedrock	800.80	804.3	9/23/19	86.80	22.58	781.72
T6-AS-03	bedrock	803.00	806.3	9/23/19	80.00	24.53	781.77
T6-AS-04	bedrock	805.30	808.7	9/23/19	80.60	26.89	781.81
T6-AS-05	bedrock	805.30	808.9	9/23/19	80.00	27.20	781.70
T6-AS-06	bedrock	804.30	807.4	9/23/19	83.50	25.76	781.64
T6-AS-07	bedrock	804.00	807.3	9/23/19	75.00	25.95	781.35
T6-AS-08	bedrock	805.20	808.5	9/23/19	76.40	27.19	781.31
March 2020							
CC-510-MW01	residuum	782.35	784.46	3/16/20	8.18	5.14	779.32
CC-510-MW02	residuum	783.18	785.5	3/16/20	12.58	5.61	779.89
CC-510-MW04	residuum	787.36	789.6	3/16/20	16.89	8.62	780.98
CWM-183-MW01	residuum	853.77	855.91	3/16/20	51.71	6.90	849.01
CWM-183-MW02	residuum	827.94	829.71	3/16/20	38.50	0.19	829.52
CWM-183-MW03	residuum	788.81	790.81	3/16/20	18.11	2.97	787.84
CWM-183-MW04	residuum	798.34	800.51	3/16/20	22.31	15.01	785.50
CWM-183-MW05	residuum	796.48	798.55	3/16/20	13.00	9.61	788.94
CWM-183-MW06	residuum	808.91	810.92	3/16/20	31.89	3.23	807.69
CWM-183-MW07	residuum	798.83	800.93	3/16/20	19.35	8.43	792.50
CWM-183-MW08	residuum	796.74	798.76	3/16/20	20.00	4.71	794.05
CWM-183-MW09	residuum	806.95	809.18	3/16/20	27.80	8.99	800.19
CWM-183-MW10	residuum	799.96	802.01	3/16/20	22.83	10.03	791.98
CWM-183-MW11	bedrock	807.07	809.25	3/16/20	102.00	21.85	787.40
CWM-183-MW12	residuum	813.03	815.36	3/16/20	46.85	22.49	792.87
CWM-183-MW13	bedrock	799.60	801.81	3/16/20	57.95	16.96	784.85
CWM-183-MW14	residuum	792.11	794.43	3/16/20	22.70	11.12	783.31
CWM-183-MW15	residuum	790.82	793.21	3/16/20	25.45	7.90	785.31
CWM-183-MW16	bedrock	790.88	793.13	3/16/20	86.40	8.15	784.98
CWM-183-MW17	bedrock	788.60	790.78	3/16/20	46.60	6.71	784.07
CWM-183-MW18	residuum	787.08	786.93	3/16/20	14.35	0.45	786.48
CWM-183-MW19	bedrock	787.17	787.06	3/16/20	99.56	4.73	782.33
CWM-183-MW20	bedrock	796.41	798.81	3/16/20	77.79	11.07	787.74
CWM-183-MW21	residuum	811.70	813.92	3/16/20	41.58	10.22	803.70
CWM-183-MW22	bedrock	812.28	814.59	3/16/20	65.73	11.35	803.24
CWM-183-MW23	residuum	819.93	822.28	3/16/20	50.50	14.26	808.02
CWM-183-MW24	residuum	804.89	807.23	3/16/20	31.24	8.93	798.30
CWM-183-MW25	residuum	798.38	798.08	3/16/20	26.45	1.59	796.49
CWM-183-MW26	residuum	791.05	793.47	3/16/20	22.68	9.65	783.82
CWM-183-MW27	bedrock	788.29	790.87	3/16/20	67.86	9.61	781.26
CWM-183-MW28	bedrock	799.40	802.34	3/16/20	200.80	15.81	786.53
CWM-183-MW29	bedrock	800.73	803.16	3/16/20	98.95	18.31	784.85
CWM-183-MW30	bedrock	788.70	791.29	3/16/20	190.11	4.89	786.40
CWM-183-MW31	bedrock	786.73	789.22	3/16/20	204.80	4.43	784.79
CWM-183-MW32	bedrock	808.37	810.53	3/16/20	43.00	6.82	803.71
CWM-183-MW33	bedrock	798.14	800.58	3/16/20	30.26	15.33	785.25
CWM-183-MW34	bedrock	807.71	809.78	3/16/20	59.00	18.77	791.01
CWM-183-MW35	bedrock	798.04	800.4	3/16/20	41.76	15.26	785.14

Table 4-1: Groundwater Elevations,
September 2019 and March 2020
Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Well Location	Well Type	Ground Elevation (feet msl)	Top of Casing Elevation (feet msl)	Date Measured	Well Depth (feet BTOC)	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
T6-SVE-01	residuum	806.40	809.7	3/16/20	33.00	6.27	803.43
T6-SVE-02	residuum	795.60	799	3/16/20	24.50	5.86	793.14
T6-SVE-03	residuum	812.70	816.3	3/16/20	38.00	12.38	803.92
T6-SVE-04	residuum	797.50	800.9	3/16/20	28.81	7.58	793.32
T6-SVE-05	residuum	814.60	817.9	3/16/20	42.37	3.31	814.59
T6-SVE-06	residuum	800.00	803.2	3/16/20	19.38	15.37	787.83
T6-SVE-07	residuum	811.90	815.4	3/16/20	36.95	20.41	794.99
T6-SVE-08	residuum	798.60	801.7	3/16/20	14.88	14.14	787.56
T6-AS-01	bedrock	800.00	803.3	3/16/20	85.90	6.86	796.44
T6-AS-02	bedrock	800.80	804.3	3/16/20	86.80	16.66	787.64
T6-AS-03	bedrock	803.00	806.3	3/16/20	80.00	18.84	787.46
T6-AS-04	bedrock	805.30	808.7	3/16/20	80.60	18.72	789.98
T6-AS-05	bedrock	805.30	808.9	3/16/20	80.00	20.36	788.54
T6-AS-06	bedrock	804.30	807.4	3/16/20	83.50	20.84	786.56
T6-AS-07	bedrock	804.00	807.3	3/16/20	75.00	21.86	785.44
T6-AS-08	bedrock	805.20	808.5	3/16/20	76.40	23.99	784.51

Notes:
BTOC = Below top of casing
msl = Mean sea level
NM = Not measured
SVE= Soil Vapor Extraction

Table 4-2: Horizontal Hydraulic Gradients,
September 2019 and March 2020
Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Upgradient Monitoring Well	Well Type	Groundwater Elevation	Downgradient Monitoring Well	Well Type	Groundwater Elevation	Estimated Groundwater Flow Direction	Horizontal Distance	Groundwater Elevation Difference (feet)	Horizontal Gradient (feet per foot)
September 2019									
CWM-183-MW07	Residuum	782.50	CWM-183-MW15	Residuum	781.57	Northeast	214	0.93	0.004
CWM-183-MW04	Residuum	782.32	CWM-183-MW15	Residuum	781.57	Northeast	217	Dry	Dry
CWM-183-MW06	Residuum	785.32	CWM-183-MW04	Residuum	782.32	East	147	Dry	Dry
CWM-183-MW21	Residuum	783.11	CWM-183-MW09	Residuum	782.13	East	79	0.98	0.012
CWM-183-MW25	Residuum	781.68	CWM-183-MW03	Residuum	780.1	East	130	1.58	0.012
CWM-183-MW23	Residuum	789.70	CWM-183-MW06	Residuum	785.32	Northeast	72	4.38	0.061
CWM-183-MW17	Bedrock	780.11	CWM-183-MW19	Bedrock	778.44	North	132	1.67	0.013
CWM-183-MW16	Bedrock	781.62	CWM-183-MW27	Bedrock	779.93	North-northeast	89	1.69	0.019
CWM-183-MW22	Bedrock	783.09	CWM-183-MW28	Bedrock	781.67	East	156	1.42	0.009
March 2020									
CWM-183-MW06	Residuum	807.69	CWM-183-MW04	Residuum	785.50	East	147	22.19	0.151
CWM-183-MW06	Residuum	807.69	CWM-183-MW07	Residuum	792.50	Northeast	124	15.19	0.122
CWM-183-MW09	Residuum	800.19	CWM-183-MW07	Residuum	792.50	East	106	7.69	0.072
CWM-183-MW21	Residuum	803.70	CWM-183-MW09	Residuum	800.19	East	79	3.51	0.044
CWM-183-MW23	Residuum	808.02	CWM-183-MW04	Residuum	785.50	Northeast	193	22.52	0.116
CWM-183-MW24	Residuum	798.30	CWM-183-MW08	Residuum	794.05	Southeast	88	4.25	0.049
CWM-183-MW05	Residuum	788.94	CWM-183-MW14	Residuum	783.31	North	128	5.63	0.044
CWM-183-MW25	Residuum	796.49	CWM-183-MW03	Residuum	787.84	East	130	8.65	0.066
CWM-183-MW17	Bedrock	784.07	CWM-183-MW19	Bedrock	782.33	North	132	1.74	0.013
CWM-183-MW16	Bedrock	784.98	CWM-183-MW27	Bedrock	781.26	North-northeast	89	3.72	0.042
CWM-183-MW22	Bedrock	803.24	CWM-183-MW28	Bedrock	786.53	East	156	16.71	0.107

Notes:
Elevations in feet above mean sea level.

Horizontal gradients have been calculated based on site-wide data suggesting that the groundwater in the residuum and bedrock zones are hydraulically connected.

Table 4-3: Vertical Hydraulic Gradients, September 2019 and March 2020 Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7) McClellan, Anniston, Alabama

Well Cluster IDs	Well Completion Zone	Midpoint of Screen (Elevation)	Groundwater Elevation		dH		dL	Vertical Hydraulic Gradient (ft/ft)	
			Sep 19	Mar 20	Sep 19	Mar 20		Sep 19	Mar 20
CWM-183-MW06	residuum	786.41	785.32	807.69	3.32	20.29	69.34	0.048	0.293
CWM-183-MW11	bedrock	717.07	782	787.4					
CWM-183-MW15	residuum	772.82	781.57	785.31	-0.05	0.33	60.94	-0.001	0.0054
CWM-183-MW16	bedrock	711.88	781.62	784.98					
CWM-183-MW08	residuum	783.74	781.92	794.05	-0.01	6.31	58.33	0.000	0.1082
CWM-183-MW20	bedrock	725.41	781.93	787.74					
CWM-183-MW21	residuum	780.2	783.11	803.7	0.02	0.46	25.92	0.001	0.0177
CWM-183-MW22	bedrock	754.28	783.09	803.24					
CWM-183-MW04	residuum	781.34	782.32	785.50	NA	0.65	30.24	NA	0.021
CWM-183-MW13	bedrock	751.1	781.63	784.85					

Notes:

Elevations in feet above mean sea level.

ft bgs = feet below ground surface

dH = Difference in groundwater elevation (feet) for surface water samples, groundwater elevation is considered surface water elevation

dL = Difference in midscreen elevation (feet) for surface water samples, midscreen elevation is considered surface water elevation

ft/ft = feet per foot (a negative value indicates an upward vertical gradient)

NA = not applicable

Table 4-4: Groundwater Field Parameters,
September 2019 and March 2020
Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Sample Location	Well Type	Sample Date	Temperature (^{o}C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
September 2019									
CWM-183-MW03	residuum	9/23/19	21.1	511	0.8	-141	0.33	15	6.9
CWM-183-MW04	residuum	9/26/19	25.3	650	0.2	-83	0.42	9	6.5
CWM-183-MW06	residuum	9/25/19	23.1	451	0.1	-73	0.29	22	6.3
CWM-183-MW08	residuum	9/25/19	27.8	556	2.2	-122	0.36	5	6.6
CWM-183-MW11	bedrock	9/18/18	24.2	506	0.8	-147	0.33	8	7.4
CWM-183-MW13	bedrock	9/26/19	19.4	362	2.9	-113	0.24	4	7.0
CWM-183-MW15	residuum	9/23/19	23.8	373	0.2	-115	0.24	8	7.5
CWM-183-MW16	bedrock	9/24/19	23.7	347	2.4	-131	0.23	5	7.5
CWM-183-MW17	bedrock	9/23/19	19.7	502	0.2	-210	0.33	7	8.2
CWM-183-MW19	bedrock	9/25/19	21.4	415	3.2	-112	0.27	1	7.5
CWM-183-MW20	bedrock	9/25/19	24.9	403	1.3	-162	0.26	17	7.4
CWM-183-MW21	residuum	10/2/19	20.1	363	1.0	-141	0.24	19	7.3
CWM-183-MW22	bedrock	10/2/19	23.1	329	0.3	-132	0.21	6	7.3
CWM-183-MW23	residuum	9/26/19	20.6	1024	1.4	-99	0.66	20	6.6
CWM-183-MW25	residuum	9/25/19	23.2	275	0.8	23	0.18	21	6.1
CWM-183-MW28	bedrock	9/24/19	19.9	374	0.6	-245	0.24	16	8.7
CWM-183-MW31	bedrock	9/24/19	20.3	389	0.8	-228	0.25	1	8.1
March 2019									
CWM-183-MW06	residuum	3/19/20	17.4	92	0.3	-12	0.06	14	5.5
CWM-183-MW07	residuum	3/19/20	17.0	281	3.6	62	0.18	20	6.4
CWM-183-MW08	residuum	3/19/20	16.3	332	0.6	-153	0.22	20	6.4
CWM-183-MW09	residuum	3/19/20	19.0	102	0.4	-67	0.07	19	5.7
CWM-183-MW11	bedrock	3/19/20	18.1	286	0.9	-150	0.19	3	7.7
CWM-183-MW13	bedrock	3/18/20	19.4	331	0.2	-197	0.22	7	6.9
CWM-183-MW15	residuum	3/18/20	17.1	353	3.4	2	0.23	22	7.1
CWM-183-MW16	bedrock	3/18/20	17.1	358	0.7	-138	0.23	8	7.7
CWM-183-MW17	bedrock	3/18/20	16.6	25	1.2	-107	0.02	6	7.3
CWM-183-MW19	bedrock	3/12/19	16.0	419	3.0	3	0.27	13	8.0
CWM-183-MW20	bedrock	3/18/20	18.8	400	1.0	-201	0.26	45	7.7

Table 4-4: Groundwater Field Parameters,
September 2019 and March 2020
Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Sample Location	Well Type	Sample Date	Temperature (^{o}C)	Conductivity (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH
CWM-183-MW21	residuum	3/18./20	17.2	233	0.9	-108	0.15	15	6.9
CWM-183-MW22	bedrock	3/18/20	18.2	256	0.3	-160	0.17	5	7.5
CWM-183-MW23	residuum	3/19/20	21.0	1069	0.6	-124	0.70	20	6.7
CWM-183-MW25	residuum	3/17/20	17.4	96	0.8	23	0.06	69	5.7
CWM-183-MW28	bedrock	3/17/20	17.3	374	0.5	-273	0.24	13	9.3
CWM-183-MW31	bedrock	3/17/20	17.2	382	2.1	-260	0.25	3	8.5

Notes:

^{o}C = Degrees Celsius
mg/L = Milligrams per liter
µs/cm = Microsiemens per centimeter
mV = Millivolts
NM = Not measured
NTU = Nephelometric turbidity units
ORP = Oxidation-reduction potential
TDS = Total Dissolved Solids

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW04 (Residuum)																	
		12/11/01	1/24/03	5/28/04	10/10/05	11/6/07	2/3/10	4/1/10	6/7/10	9/7/10	12/7/10	3/8/11	9/14/11	3/20/12	6/21/12	9/19/12	12/12/12	3/28/13	6/12/13	9/25/13
COCs		Historical					Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)	
1,1,2,2-Tetrachloroethane	13.6	25	0.95 J (J)	3.1	0.69 J	< 1	0.42 J	20	22	22	200	37	180	72	62	62	54	7.1	10	41
1,1,2-Trichloroethane	50.2	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1	1.3	2.3	4.2	0.5 J	2.1	1.2	1.8	0.69 J	1.1	0.47 J	0.34 J	0.83 J
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	0.9 J	0.26 J	0.54 J	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4.43	0.43 J (J)	< 1.0	0.22 J	< 1.0	< 1.0	< 1.0	0.26 J	0.2 J	< 1.0	0.3 J	0.39 J	< 1.0	0.47 J	0.27 J	< 1.0	< 1.0	0.69 J	0.22 J	< 1.0
Trichloroethene	205	9	16	7.9	8.5	1.3	1.4	27	12	10	23	12	16	72	31	9.2	12	43	22	16
Degradation Products																				
1,1-Dichloroethene	4800	< 1.0	0.22 J (J)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0
1,2-Dichloroethane	30.8	0.8 J (J)	0.75 J (J)	0.45 J	0.59 J	< 1	< 1.0	< 1.0	< 1.0	0.33 J	0.81 J	< 1.0	1.1	0.64 J	1.3	0.26 J	0.58 J	0.2 J	0.34 J	0.4 J
Chloroethane	955	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	6	19	5.8	5.9	7.5	1.1	4.8	2.9	16	8.2	1.5	7.6	6.5	12	2.3	4.3	10	9.3	6.3
Methylene chloride	375	< 2 (UJ)	0.61 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	2.5	5.3	0.96 J	0.96 J	1.1	0.31 J	0.89 J	0.76 J	6.6	3.7	0.33 J	3.1	3.3	6.4	1.4	2.4	3.4	3.4	3.4
Vinyl chloride	3.86	0.82 J (J)	1.6	0.39 J	1.7	7.1	0.29 J	0.21 J	< 0.8	2.8	1.9	< 0.8	1.3	1.2	3.3	0.45 J	0.59 J	1.8	1.8	0.88

VOCs (µg/L)	GS RBTL	CWM-183-MW04 (Residuum)																	
		12/16/13	3/25/14	6/11/14	9/10/14	12/12/14	2/24/15	6/1/15	8/26/15	12/1/15	3/2/16	9/26/16	3/15/17	9/14/17	3/15/18	9/17/18	03/12/19	9/26/19	3/18/20
COCs		4th Year O&M (SVE)		5th Year O&M (SVE)				6th Year O&M (ISB)				7th Year O & M (ISB)		8th Year O & M (ISB)		9th Year O & M (ISB)		10th Year O & M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	3.5	7.7	1.7	0.49 J	13	1.7	0.85 J	0.75 J	1.0	0.73 J	< 1.0	0.95 J	17	0.46 J	dry	22	< 1	1.6
1,1,2-Trichloroethane	50.2	< 1.0	0.26 J	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1	dry	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	dry	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	dry	< 1	1.8 B (UB)	< 1
Trichloroethene	205	33	37	13	9.0	12	1.4	0.67 J	1.0 J	0.58 J	0.50 J	0.28 J	1.4	5.3	4.7	dry	9.7	1	1
Degradation Products																			
1,1-Dichloroethene	4800	0.32 J	0.48 J	0.21 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.2 J	< 1	0.27 J	dry	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	0.59 J	0.22 J	0.24 J	0.74 J	1.2	0.38 J	< 1.0	0.32 J	0.37 J	0.32 J	0.75 J	dry	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	dry	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	dry	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	14	20	17	21	4.0	20	8.2	5.3	1.6	1.8	1.3	8.1	4.5	10	dry	6.1	1.8 B (UB)	4.2
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	dry	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	4.3	7.6	5.3	5.4	1.6	4.5	3.3	1.8	1.8	0.80 J	0.63 J	2.2	1.7	3.3	dry	1.6	0.58 J	1.7
Vinyl chloride	3.86	2	2.3	1.5	9.5	0.38 J	11	27 (JM)	8.7	8.3	3.7	3.1	12	5.7	13	dry	4.1	3.6	4.00

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW06 (Residuum)																		
		12/18/01	1/29/03	10/10/05	11/5/07	2/3/10	4/1/10	6/7/10	9/7/10	12/6/10	3/8/11	9/14/11	3/20/12	6/20/12	9/20/12	12/13/12	3/28/13	6/13/13	9/25/13	12/17/13	3/26/14
COCs		Historical				Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	17	50	32	5.1	140	81	89	dry	39	130	58	39	dry	18	15	7.2	11	79	6.7	94
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	0.31 J	2.5	dry	1	< 1.0	0.23 J	< 1.0	dry	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	600 (J)	570	1100 (JA)	630	3.2	2.2	2	dry	3.3	0.54 J	41	0.74 J	dry	18	62	< 1.0	0.32 J	14	0.53 J	0.24 J
Tetrachloroethene	4.43	0.34 J (J)	1.1	0.76 J	0.31 J	1	0.94 J	0.42 J	dry	0.44 J	0.29 J	0.3 J	< 1.0	dry	0.27 J	0.25 J	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0
Trichloroethene	205	18	45	35	21	48	33	22	dry	32	16	36	8.5	dry	13	24	1.5	4.2	29 (JM)	3.3	7.8
Degradation Products																					
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	dry	< 1.0	< 1.0	< 1.0	< 1.0	dry	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.8	dry	0.73 J	< 1.0	< 1.0	< 1.0	dry	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	< 1.0	0.22 J (J)	< 1.0	< 1.0	4	4.8	27	dry	35	0.51 J	0.69 J	< 1.0	dry	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J
Methylene chloride	375	0.43 J (B)	0.52 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	dry	2.8	< 1.0	< 1.0	< 1.0	dry	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	dry	0.25 J	< 0.8	< 0.8	< 0.8	dry	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW06 (Residuum)															
		6/11/14	9/9/14	12/15/14	3/2/15	6/2/15	8/31/15	12/3/15	3/2/16	9/23/16	3/16/17	9/13/17	3/15/18	09/17/18	03/12/19	9/25/19	3/19/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		9th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	3.3	28	11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	4.2	< 1	< 1	< 1 *	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
Chloroform	986	< 1.0	29	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
Trichloroethene	205	2.3	20	15	< 1.0	0.2 J	0.84 J	< 1.0	0.31 J	< 1.0	< 1.0	< 1	0.23 J	< 1	< 1	< 1 *	< 1
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5 *	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1 *	< 1
Cis-1,2-Dichloroethene	991	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	2.2	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.57 J	2 U^ (UB)	< 2	< 2	< 2	< 5	< 5	< 5 *	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 *	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW07 (Residuum)																
		1/29/03	2/4/10	4/1/10	6/7/10	9/7/10	12/7/10	3/10/11	9/14/11	3/20/12	6/20/12	9/20/12	12/12/12	4/4/13	6/12/13	9/25/13	12/19/13	3/27/14
COCs		**Historical**	**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	8,600	2,200	2,800	dry	dry	dry	750	dry	dry	dry	dry	dry	550	dry	dry	680	1200
1,1,2-Trichloroethane	50.2	64	17	25(JS)	dry	dry	dry	14	dry	dry	dry	dry	dry	7.4	dry	dry	8.8	13
Chloroform	986	140	60	72 (JS)	dry	dry	dry	42	dry	dry	dry	dry	dry	20	dry	dry	26	38
Tetrachloroethene	4.43	57	13	15 (JS)	dry	dry	dry	23	dry	dry	dry	dry	dry	13	dry	dry	7.5	21
Trichloroethene	205	5,500	1,900	2,300	dry	dry	dry	2100	dry	dry	dry	dry	dry	1100	dry	dry	1100	2000
Degradation Products																		
1,1-Dichloroethene	4800	1.3	0.22 J	0.28 J (JS)	dry	dry	dry	0.51 J	dry	dry	dry	dry	dry	< 1.0	dry	dry	< 1.0	0.32 J
1,2-Dichloroethane	30.8	0.49 J (J)	< 1	< 1.0 (UJS)	dry	dry	dry	< 1	dry	dry	dry	dry	dry	< 1.0	dry	dry	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0 (UJS)	dry	dry	dry	< 2.0	dry	dry	dry	dry	dry	< 2.0	dry	dry	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0 (UJS)	dry	dry	dry	< 2.0	dry	dry	dry	dry	dry	< 2.0	dry	dry	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	180	27	42 (JS)	dry	dry	dry	53	dry	dry	dry	dry	dry	9.5	dry	dry	8.7	15
Methylene chloride	375	2.7 (B)	< 2.0	< 2.0 (UJS)	dry	dry	dry	< 2.0	dry	dry	dry	dry	dry	2.0 U^ (UB)	dry	dry	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	42	3.8	5.9 (JS)	dry	dry	dry	8.4	dry	dry	dry	dry	dry	1.4	dry	dry	1.3	2.2
Vinyl chloride	3.86	1.2	< 0.8	< 0.8 (UJS)	dry	dry	dry	0.91	dry	dry	dry	dry	dry	0.22 J	dry	dry	0.68 J	0.64 J

VOCs (µg/L)	GS RBTL	CWM-183-MW07 (Residuum)																
		6/12/14	9/9/14	12/11/14	2/25/15	6/4/15	9/1/15	12/7/15	3/8/16	9/28/16	3/20/17	9/18/17	3/15/18	06/11/18	9/17/18	03/13/19	9/25/19	03/19/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year (ISB)**		**8th Year (ISB)**		**9th Year (ISB)**			**10th Year (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	430	dry	dry	470	630	340	370	130	dry	260	45	4.2	1.5	WC	2.9	dry	1.3
1,1,2-Trichloroethane	50.2	7.1	dry	dry	9.3	6.7	5.1	6.0	1.9	dry	4.2	0.48 J	< 1	< 1	WC	< 1	dry	< 1
Chloroform	986	18	dry	dry	22	19	15	13	4.4	dry	9.9	3.7	0.41 J	< 1	WC	< 1	dry	< 1
Tetrachloroethene	4.43	9.2	dry	dry	10	8.9	2.8	4.7	3.2	dry	7.1	2.1	0.33 J	< 1	WC	< 1	dry	< 1
Trichloroethene	205	1000	dry	dry	1100	990	550	670	290	dry	490	170	7.4	4.7	WC	7.9	dry	5.6
Degradation Products																		
1,1-Dichloroethene	4800	0.21 J	dry	dry	0.26 J	< 1.0	< 1.0	1.7	0.34 J	dry	0.75 J	< 1	< 1	< 1	WC	< 1	dry	< 1
1,2-Dichloroethane	30.8	< 1	dry	dry	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	dry	< 1.0	< 1	< 1	< 1	WC	< 1	dry	< 1
Chloroethane	955	< 2	dry	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2	< 2	< 2	< 5	WC	< 5	dry	< 5
Chloromethane	216	< 2	dry	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2	< 2	< 2	< 1	WC	< 1	dry	< 1
Cis-1,2-Dichloroethene	991	12	dry	dry	24	13	4.8	15	6.6	dry	7.1	5	33	2.1	WC	0.84 J	dry	1.5
Methylene chloride	375	< 2	dry	dry	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2.0	dry	< 2	< 2	< 2	< 5	WC	< 5	dry	< 5
Trans-1,2-Dichloroethene	1,950	1.9	dry	dry	1.4	0.72 J	0.29 J	0.89 J	0.51 J	dry	0.45 J	< 1	3.9	0.68 J *	WC	< 1	dry	< 1
Vinyl chloride	3.86	1	dry	dry	0.52 J	0.35 J	< 0.8	1.4	0.92	dry	0.2 J	< 0.8	21	1.2	WC	< 1	dry	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW08 (Residuum)																	
		12/13/01	1/23/03	11/6/07	2/4/10	4/1/10	6/8/10	9/8/10	12/7/10	3/8/11	9/13/11	3/20/12	6/20/12	9/19/12	12/12/12	3/28/13	6/12/13	9/24/13	12/17/13	3/27/14
COCs		Historical			Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	22	75	3	8.3	18	14	11	5.8	2.7	3.6	26	11	4.9	6.8	12	13	16	2.1	13
1,1,2-Trichloroethane	50.2	0.73 J (J)	0.66 J (J)	0.35 J	0.65 J	2	1.9	0.64 J	0.57 J	< 1	0.5 J	2	1.2	0.39 J	0.77 J	0.68 J	0.85 J	0.9 J	< 1.0	0.54 J
Chloroform	986	1.8 (B)	1.8	0.66 J	0.77 J	2.2	2.3	0.71 J	0.66 J	0.32 J	0.81 J	1.7	0.89 J	0.62 J	0.71 J	0.81 J	0.84 J	0.79 J	0.23 J	0.57 J
Tetrachloroethene	4.43	2.9	2.3	2.1	7	22	24	3.6	4.5	3.3	5.8	21	7.1	4.2	4.9	6.6	7.9	8.4	1.8	3.6
Trichloroethene	205	220	150	200	630	1,800	1,800	390	380	260	530	1700	1100	260	620	560	580	620	130	370
Degradation Products																				
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	7.2	5.2	9.4	2.2	6.0	7.1	4.1	3.4	1	3.3	6.4	6.6	1.7	7.3	2.5	2.9	4.4	1.7	2.2
Methylene chloride	375	0.35 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	0.24 J (J)	0.59 J (J)	0.51 J	0.27 J	0.63 J	0.69 J	0.31 J	< 1.0	< 1.0	< 1.0	0.74 J	0.38 J	< 1.0	0.23 J	0.28 J	0.29 J	0.36 J	< 1	0.2 J
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.35 J	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW08 (Residuum)															
		6/12/14	9/9/14	12/11/14	2/26/15	6/2/15	8/25/15	12/7/15	3/7/16	9/27/16	3/16/17	9/14/17	3/14/18	9/18/18	3/18/19	9/25/19	3/19/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		9th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	3.2	6.6	4.5	2.0	0.38 J	< 1.0	0.53 J	0.41 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	0.68 J	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	0.68 J	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	2.9	3.9	3.6	0.6 J	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	170	550	210	9.0	3.8	1.2	1.8	2.1	17	1.1	0.49 J	0.39 J	< 1	0.5 J	< 1	3.8
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	0.66 J	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	0.44 J	0.27 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	0.86 J	7.0	1.6	100	12	0.98 J	1.0	2.1	18	1.7	2.5	1.1	1.7	0.6 J	1 U^ (UB)	3.2
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	0.31 J	< 1.0	0.2 J	0.9 J	0.98 J	0.29 J	0.37 J	1.3	< 1.0	1.1	0.3 J	5.7	< 1	2.2 B	0.92 J
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	1.7	170	3.7	1.6	1.9	13	0.66 J	5	0.77 J	3.1	0.59 J	2.4	2.9

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW09 (Residuum)																	
		1/28/03	5/27/04	2/4/10	3/31/10	6/7/10	9/7/10	12/7/10	3/10/11	9/14/11	3/20/12	6/20/12	9/20/12	12/12/12	4/4/13	6/12/13	9/25/13	12/19/13	3/27/14
COCs		**Historical**		**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	460	390	18	6.8	dry	dry	dry	39	dry	dry	dry	dry	dry	33	dry	dry	89	94
1,1,2-Trichloroethane	50.2	0.8 J (J)	1.4	0.7 J	0.33 J	dry	dry	dry	0.83 J	dry	dry	dry	dry	dry	0.71 J	dry	dry	1.2	0.99 J
Chloroform	986	1.8	1.6	0.37 J	< 1	dry	dry	dry	0.58 J	dry	dry	dry	dry	dry	0.5 J	dry	dry	1.1	0.8 J
Tetrachloroethene	4.43	4.3 (J)	7.1	0.57 J	0.26 J	dry	dry	dry	1.6	dry	dry	dry	dry	dry	1.6	dry	dry	2.6	2.4
Trichloroethene	205	280	510	51	27	dry	dry	dry	150	dry	dry	dry	dry	dry	140	dry	dry	320	180
Degradation Products																			
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	dry	dry	dry	< 1.0	dry	dry	dry	dry	dry	< 1.0	dry	dry	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	dry	dry	dry	< 1.0	dry	dry	dry	dry	dry	< 1.0	dry	dry	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	dry	dry	dry	< 2.0	dry	dry	dry	dry	dry	< 2.0	dry	dry	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	dry	dry	dry	< 2.0	dry	dry	dry	dry	dry	< 2.0	dry	dry	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	1.3	3.9	3	1.9	dry	dry	dry	7	dry	dry	dry	dry	dry	4.9	dry	dry	4.8	5.1
Methylene chloride	375	0.56 J (B)	< 2.0	< 2.0	< 2.0	dry	dry	dry	< 2.0	dry	dry	dry	dry	dry	2.0 U^ (UB)	dry	dry	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	0.24 J (J)	1.7	< 1.0	< 1.0	dry	dry	dry	< 1.0	dry	dry	dry	dry	dry	< 1.0	dry	dry	0.22 J	0.21 J
Vinyl chloride	3.86	< 1.0	< 1.0	< 0.8	< 0.8	dry	dry	dry	< 0.8	dry	dry	dry	dry	dry	< 0.8	dry	dry	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW09 (Residuum)																
		6/12/14	9/9/14	12/11/14	3/3/15	6/4/15	9/1/15	12/9/15	3/8/16	9/28/16	3/20/17	9/18/17	3/15/18	06/11/18	09/19/18	03/18/19	9/25/19	3/19/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year (ISB)**		**8th Year (ISB)**		**9th Year (ISB) O&M (ISB)**			**10th Year**	
1,1,2,2-Tetrachloroethane	13.6	41	dry	dry	120	630	22	360	950	dry	350	0.21 J	24	< 1	< 1	2.2	dry	20
1,1,2-Trichloroethane	50.2	0.69 J	dry	dry	2.1	2.1	< 1.0	2.0	3.2	dry	2.7	1.5	10	< 1	< 1	0.79 J	dry	8.3
Chloroform	986	0.68 J	dry	dry	1.2	2.0	0.26 J	0.73 J	1.3	dry	0.43 J	0.21 J	< 1	< 1	< 1	< 1	dry	< 1
Tetrachloroethene	4.43	1.2	dry	dry	0.76 J	2.7	0.6 J	0.74 J	2.3	dry	1.2	< 1	< 1	< 1	< 1	< 1	dry	< 1
Trichloroethene	205	130	dry	dry	86	230	47	47	180	dry	51	0.83 J	7.5	< 1	< 1	< 1	dry	3.4
Degradation Products																		
1,1-Dichloroethene	4800	< 1.0	dry	dry	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	dry	< 1.0	0.22 J	< 1	< 1	< 1	< 1	dry	< 1
1,2-Dichloroethane	30.8	< 1.0	dry	dry	< 1.0	< 1.0	< 1.0	0.82 J	< 1.0	dry	< 1.0	1.4	22	3 *	0.81 J	4.3	dry	0.94 J
Chloroethane	955	< 2.0	dry	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2	< 2	0.71 J	< 5	< 5	< 5	dry	< 5 *
Chloromethane	216	< 2.0	dry	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2	< 2	< 2	< 1	< 1	< 1	dry	< 1
Cis-1,2-Dichloroethene	991	5.5	dry	dry	17	400	59	38	6	dry	12	280	9.9	< 1	< 1	5.3	dry	3.5
Methylene chloride	375	< 2.0	dry	dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	dry	< 2	0.6 J	< 2	< 5	< 5	< 5	dry	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	dry	dry	< 1.0	6.7	14	26	0.50 J	dry	3.9	10	5.1	3.1 *	5.8	33	dry	4.4
Vinyl chloride	3.86	< 0.8	dry	dry	< 0.8	1.9	10	14	0.33 J	dry	3	94	5.7	< 1	< 1	14	dry	4

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW11 (Bedrock)																	
		2/14/03	10/10/05	11/5/07	2/3/10	4/1/10	6/7/10	9/7/10	12/6/10	3/8/11	9/14/11	3/20/12	6/20/12	9/20/12	12/13/12	3/28/13	6/13/13	9/25/13	12/17/13	3/26/14
COCs		Historical			Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	11	0.37 J	< 1.0	75	11	1.1	2	7.8	5.9	2.5	3.4	0.85 J	3.7	0.26 J	25	9.4	11	2.6	2.8
1,1,2-Trichloroethane	50.2	0.75 J (J)	0.45 J	< 1.0	0.98 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.3 J	0.41 J	< 1.0	< 1.0
Chloroform	986	1.3	0.56 J	0.3 J	8.4	1.5	0.4 J	0.28 J	0.39 J	0.62 J	0.53 J	0.96 J	0.38 J	0.34 J	< 1.0	1.8	0.76 J	1.1	0.47 J	0.34 J
Tetrachloroethene	4.43	27	0.93 J	< 1.0	2.1	0.7 J	0.26 J	< 1.0	0.8 J	0.53 J	0.34 J	0.47 J	0.28 J	0.38 J	< 1.0	0.7 J	0.41 J	0.44 J	0.25 J	0.34 J
Trichloroethene	205	290	83	19	280	75	25	17	37	98	26	39	23	19	10	76	46	59	25	29
Degradation Products																				
1,1-Dichloroethene	4800	0.24 J (J)	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	0.2 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	5.4	3.9	0.47 J	8.1	2.1	0.57 J	0.36 J	0.58 J	1.7	2.2	2.4	1.2	< 1.0	< 1.0	3.3	1.2	1.6	0.6 J	0.47 J
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	0.3 J (J)	< 1.0	< 1.0	1.3	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.49 J	0.57 J	0.24 J	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.7 J	14	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW11 (Bedrock)															
		6/11/14	9/9/14	12/15/14	3/2/15	6/2/15	8/31/15	12/3/15	3/2/16	9/23/16	3/16/17	9/13/17	3/15/18	09/18/18	03/12/19	10/2/19	3/19/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		8th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	4.0	2.5	1.8	6.0	1.5	0.85 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1	0.61 J	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	0.35 J	0.4 J	0.38 J	1.2	0.71 J	0.62 J	< 1.0	0.28 J	< 1.0	< 1.0	< 1	0.56 J	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	0.41 J	0.26 J	0.27 J	0.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	30	30	24	71	16	15	3.6	22	11	2.3	0.58 J	1.1	0.71 J	11	< 1	43
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	0.21 J	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	0.84 J	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	0.47 J	0.49 J	0.42 J	2.5	8.4	7.9	4.5	6.1	2.3	1.7	2.2	9	< 1	2.2	< 1	6.9
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	0.22 J	< 1.0	< 1.0	0.75 J	0.22 J	< 1.0	< 1.0	< 1.0	0.64 J	0.93 J	4.7	1.9	0.97 J	< 1	< 1	< 1
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	5.1	< 0.8	6.8	11	10	22	< 1	2.8	< 1	2.5

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW13 (Bedrock)																			
		2/26/03	5/27/04	10/10/05	11/6/07	2/3/10	4/1/10	6/7/10	9/7/10	12/7/10	3/8/11	9/14/11	3/20/12	6/21/12	9/18/12	12/12/12	3/27/13	6/12/13	9/25/13	12/16/13	3/25/14
COCs		**Historical**				**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	47	15	9	25	15	53	46	51	51	53	74	120	61	80	43	63	66	89	55	46
1,1,2-Trichloroethane	50.2	0.31 E (J)	0.23 J	< 1.0	1	0.23 J	0.68 J	0.83 J	1.2	1.4	1.1	1.4	1.2	0.82 J	1.3	1.7	0.76 J	0.99 J	0.64 J	0.76 J	0.53 J
Chloroform	986	0.96 J (J)	0.97 J	0.7 J	4.7	0.71 J	2.8	3	4.2	5.5	3.1	4.1	3.1	1.3	3.1	0.97 J	2.7	3.2	2	2.1	1.9
Tetrachloroethene	4.43	5.1	1.4	1.2	3.9	1.1	3.6	2	2.5	3.8	4.3	4	6.3	2.5	6	6.7	5.4	8.1	5	4.1	4.9
Trichloroethene	205	390	150	120	430	110	340	250	320	480	610	500	810	920	800	820	530	840	520	460	510
Degradation Products																					
1,1-Dichloroethene	4800	1.9	< 1.0	< 1.0	0.28 J	< 1.0	0.5 J	0.26 J	0.36 J	0.41 J	0.81 J	0.62 J	1.8	0.38 J	1.6	0.59 J	0.72 J	1.5	0.61 J	0.54 J	0.65 J
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	10	4.4	2.5	8.4	5.7	9.2	9.2	10	23	13	12	11	7.3	15	11	7.6	11	7.3	9.1	6.5
Methylene chloride	375	0.49 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	4.6	0.77 J	0.73 J	0.98 J	0.78 J	1.7	1.1	1.1	1	3.1	2.1	4	1.2	3.5	2.2	2.2	3	1.6	2.1	1.6
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.24 J	< 0.8	< 0.8	< 0.8	< 0.8	0.22 J	< 0.8	< 0.8	0.31 J	0.22 J	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW13 (Bedrock)															
		6/11/14	9/10/14	12/11/14	2/24/15	6/1/15	8/26/15	12/1/15	3/1/16	9/26/16	3/15/17	9/14/17	3/14/18	09/19/18	03/12/19	9/26/19	3/18/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	52	62	40	13	0.76 J	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	2	2.2	< 5	5.0	< 5	7.7
1,1,2-Trichloroethane	50.2	0.84 J	1.1	1.5	0.44 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 5	< 5	< 5	< 5
Chloroform	986	2.1	0.97 J	0.91 J	1.3	0.83 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	0.28 J	< 5	< 5	< 5	< 5
Tetrachloroethene	4.43	4.7	4.1	4.7	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.9	2.3	< 5	4.4 J	7.2 B	12
Trichloroethene	205	530	300	460	98	12	2.2	0.42 J	14	0.96 J	110	1700	390	310 F1 (JM)	860 F1 (JM)	38	850
Degradation Products																	
1,1-Dichloroethene	4800	0.84 J	0.33 J	0.46 J	1.2	1.5	< 1.0	< 1.0	< 1.0	< 1.0	8.2	27	8.4	9 (JS)	8.4	1.9 J	15
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 5	< 5	< 5	< 5
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 25	< 25	< 25	< 25 *
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Cis-1,2-Dichloroethene	991	7.3	7.7	9.2	310	490	0.88 J	0.62 J	15	1.3	110	570	200	370 (JS)	290 F1 (JM)	92 B	180
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 25	< 25	< 25	< 25
Trans-1,2-Dichloroethene	1,950	1.8	1.8	1.8	2.4	3.9	0.82 J	1.5	1.9	2.1	9	24	8.6	17 (JS)	12	6.2	15
Vinyl chloride	3.86	< 0.8	0.28 J	0.29 J	2.4	50	80	3.8	6.2	4.1	38	32	31	76 (JS)	36	56	30

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW15 (Residuum)																	
		3/4/03	11/6/07	2/3/10	4/1/10	6/8/10	9/7/10	12/8/10	3/8/11	9/14/11	3/20/12	6/21/12	9/18/12	12/12/12	3/27/13	6/12/13	9/26/13	12/17/13	3/25/14
COCs		**Historical**		**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	1.2	< 1.0	< 1.0	2.1	1.9	< 1.0	< 1.0	1.9	< 1.0	3.6	0.32 J	< 1.0	0.5 J	< 1.0	3.9	0.52 J	< 1.0
1,1,2-Trichloroethane	50.2	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	0.22 J	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	2.6	1.9	0.55 J	0.45 J	0.59 J	1.5	1.5	0.8 J	1.6	0.69 J	1.4	0.69 J	0.81 J	0.5 J	0.46 J	0.83 J	0.62 J	0.37 J
Tetrachloroethene	4.43	< 1.0	0.74 J	< 1.0	< 1.0	0.37 J	0.44 J	0.27 J	< 1.0	0.38 J	< 1.0	0.5 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	205	25	120	8.1	10	14	63	59	15	56	16	87	24	30	8.4	7.7	23	15	7.8
Degradation Products																			
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0 (UJ)	< 2.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	0.23 J (J)	1.3	< 1.0	< 1.0	< 1.0	1	1.1	< 1.0	< 1.0	< 1.0	0.91 J	0.35 J	0.81 J	< 1.0	< 1.0	0.33 J	0.22 J	< 1.0
Methylene chloride	375	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW15 (Residuum)																
		6/10/14	9/8/14	12/11/14	3/2/15	5/29/15	8/27/15	12/9/15	3/1/16	9/27/16	3/20/17	9/13/17	3/13/18	6/12/18	09/18/18	03/13/19	9/23/19	3/18/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**			**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	< 1.0	6.2	2.8	0.33 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1 *	< 1
1,1,2-Trichloroethane	50.2	< 1.0	0.23 J	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	0.31 J	1.4	1.3	0.54 J	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	0.4 J	0.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	6.9	71	52	16	15	2.2	6.9	4.6	4.4	2.8	42	2.1	2.0	3.0	2.7	1.8	0.80 J
Degradation Products																		
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	0.44 J	0.34 J	< 1.0	< 1.0	< 1.0	0.32 J	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	0.36 J	< 2	< 2	< 5	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	< 1.0	1.3	1.2	0.34 J	270	23	26	9.9	2.9	1.6	20	1.2	0.8 J	1.8	0.81 J	1.7	0.71 J
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	1.6	1.0	0.69 J	< 1.0	2.3	0.93 J	1.8	0.56 J	1.4 *	2.6	0.37 J	4.3	0.47 J
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	7.1	27	22	1.6	2.7	2.1	11	0.68 J	1.2	2.2	< 1	1.4	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW16 (Bedrock)																	
		3/3/03	5/27/04	11/6/07	2/3/10	4/1/10	6/8/10	9/7/10	12/8/10	3/8/11	9/14/11	3/20/12	6/21/12	9/18/12	12/12/12	3/27/13	6/12/13	9/26/13	12/17/13	3/25/14
COCs		Historical			Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	< 1.0	0.65 J	0.52 J	4.6	0.53 J	0.82 J	0.24 J	0.34 J	< 1.0	1.1	< 1.0	0.24 J	0.22 J	< 1.0	0.37 J	0.86 J	0.73 J
1,1,2-Trichloroethane	50.2	0.6 J (J)	0.42 J	< 1.0	0.45 J	0.44 J	0.51 J	0.51 J	0.5 J	0.42 J	0.44 J	0.5 J	0.45 J	0.39 J	0.43 J	0.41 J	0.36 J	0.39 J	0.34 J	0.42 J
Chloroform	986	9.6	1.9	0.42 J	3.6	3.4	4.3	3.8	3.3	3.1	3.6	3.3	2.9	3.3	3.2	3.1	2.7	2.9	2.8	3.2
Tetrachloroethene	4.43	0.92 J (J)	0.53 J	0.37 J	0.71 J	0.56 J	0.72 J	0.41 J	0.58 J	0.31 J	0.49 J	0.78 J	0.66 J	0.57 J	0.68 J	0.7 J	0.5 J	0.39 J	0.65 J	0.46 J
Trichloroethene	205	180	170	150	150	140	140	79	160	87	130	170	190	170	170	140	93	110	120	130
Degradation Products																				
1,1-Dichloroethene	4800	0.42 J (J)	0.41 J	0.53 J	0.2 J	< 1.0	< 1.0	0.24 J	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1 (UJ)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	1.6 (J)	1.3	2	2	1.9	2.4	42	31	3.6	3.3	4.2	3.1	3.2	2.9	2.9	2.6	5.7	3.3	2.7
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	0.97	14	0.32 J	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW16 (Bedrock)															
		6/10/14	9/8/14	12/11/14	3/2/15	5/29/15	8/27/15	12/7/15	3/1/16	9/27/16	3/16/17	9/13/17	3/13/18	9/18/18	3/13/19	9/24/19	3/18/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		9th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	0.51 J	0.63 J	0.51 J	0.32 J	0.2 J	0.48 J	0.29 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	0.32 J	0.37 J	0.49 J	0.38 J	0.29 J	0.41 J	0.24 J	0.23 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	2.6	3.1	3.3	2.8	2.4	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	0.4 J	0.28 J	0.49 J	0.31 J	< 1.0	0.41 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	110	100	140	99	67	66	49	55	33	32	1.8	24	12	10	16	7.1
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	1 U^ (UB)	0.32 J	0.25 J	0.27 J	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	0.29 J	0.3 J	0.32 J	< 1	0.29 J	< 1	< 1	0.53 J	0.52 J
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	1.1 J	0.62 J	< 5	< 5	3.0 J	3.0 J *
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	1.9	3.8	4.0	4.6	9.4	130	140	82	38	28	0.97 J	20	8.7	7.8	9.1	7
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	0.61 J	0.74 J	0.9 J	1.1	3	2.4	2.2	2.2	6.3	4.2
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	7.4	9.6	16	24	35	2.3	8.7	8.9	6.2	9.4	10

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

	GS	CWM-183-MW17 (Bedrock)																	
VOCs (µg/L)	RBTL	2/27/03	5/25/04	11/6/07	2/3/10	3/31/10	6/9/10	9/8/10	12/8/10	3/10/11	9/15/11	3/19/12	6/21/12	9/19/12	12/14/12	3/26/13	6/13/13	9/26/13	12/16/13	3/26/14
COCs		**Historical**			**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	0.73 J	< 1.0	< 1.0	0.9 J	2.6	2.3	< 1.0	1.4	0.27 J	0.45 J	0.28 J	0.27 J	< 1.0	2.4	1.6	< 1.0	0.66 J
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	0.47 J	0.41 J	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	0.68 J (J)	0.56 J	1.3	< 1.0	0.37 J	0.75 J	1.7	1.5	0.27 J	1.7	0.52 J	< 1.0	0.43 J	0.34 J	0.2 J	< 1.0	< 1.0	< 1.0	0.45 J
Tetrachloroethene	4.43	0.32 J (J)	0.3 J	0.51 J	< 1.0	0.24 J	0.54 J	0.81 J	0.77 J	< 1.0	0.91 J	0.33 J	< 1.0	0.24 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	0.3 J
Trichloroethene	205	100	71	130	16	42	60	110	130	23	130	47	43	53	54	20	14	13	14	40
Degradation Products																				
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	1.2	0.61 J	9.6	1.2	2.3	3.9	4.2	7.8	7.6	5.3	4	12	17	19	8.8	10	17	16	3.3
Methylene chloride	375	0.49 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	0.44 J (J)	0.29 J	0.26 J	< 1.0	< 1.0	< 1.0	0.24 J	0.22 J	< 1.0	0.23 J	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.29 J	0.2 J	< 0.8

	GS	CWM-183-MW17 (Bedrock)															
VOCs (µg/L)	RBTL	6/10/14	9/9/14	12/10/14	2/27/15	5/29/15	9/1/15	12/7/15	3/1/16	9/27/16	3/16/17	9/13/17	3/13/18	09/18/18	03/13/19	9/23/19	3/18/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	1.3	< 1.0	2.2	1.7	< 1.0	< 1.0	0.29 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	0.25 J	< 1.0	0.24 J	0.3 J	< 1.0	< 1.0	0.2 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	0.5 J	< 1.0	1.1	1.1	0.26 J	0.22 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	< 1.0	0.21 J	< 1.0	0.53 J	0.6 J	< 1.0	< 1.0	0.23 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1 *
Trichloroethene	205	6.5	13	57	19	84	84	18	15	48	12	8	6.5	4.3	5.1	3.8	5
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	12	12	18	20	9.2	22	17	11	16	4.2	2.6	1.9	0.72 J	0.73 J	0.53 J	0.86 J
Methylene chloride	375	< 2.0	2 U^ (UB)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	0.36 J	0.27 J	0.36 J	0.49 J	0.31 J	0.26 J	0.44 J	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	3.86	0.91	3.4	2.5	0.88	3.6	9.1	7.7	4.8	12	5.2	1.8	0.47 J	< 1	11	2.4	2.9

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW19 (Bedrock)																	
		3/5/03	5/24/04	9/30/05	2/4/10	3/31/10	6/8/10	9/8/10	12/7/10	3/8/11	9/15/11	3/19/12	6/19/12	9/18/12	12/14/12	3/26/13	6/13/13	9/26/13	12/16/13	3/27/14
COCs		**Historical**			**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.4	1.3	0.41 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	22	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	205	< 1.0	< 1.0	< 1.0	0.69 J	< 1.0	11	2.7	2.7	0.37 J	0.71 J	< 1.0	< 1.0	0.7 J	0.85 J	< 1.0	4.8	0.21 J	0.47 J	< 1.0
Degradation Products																				
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1 (UJ)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	< 1 (UJ)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW19 (Bedrock)															
		6/10/14	9/9/14	12/9/14	2/27/15	5/28/15	8/25/15	12/3/15	2/29/16	9/28/16	3/16/17	9/15/18	3/13/18	09/17/18	03/12/19	9/25/19	3/17/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW20 (Bedrock)																	
		3/7/03	11/6/07	2/4/10	3/31/10	6/8/10	9/8/10	12/7/10	3/8/11	9/13/11	3/20/12	6/20/12	9/19/12	12/12/12	3/28/13	6/12/13	9/24/13	12/17/13	3/27/14
COCs		**Historical**		**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	18	< 1.0	0.45 J	0.21 J	< 1.0	1.1	< 1.0	< 1.0	1.1	0.91 J	< 1.0	< 1.0	< 1.0	1.2	0.73 J	0.64 J	2.7	0.85 J
1,1,2-Trichloroethane	50.2	2.4	0.89 J	1.1	1.6	1.3	1.1	1.3	1.3	1.2	1.3	1.2	1.4	1.1	0.85 J	0.66 J	0.86 J	0.63 J	0.66 J
Chloroform	986	4.4	1.3	1.1	1.9	1.2	1.2	1.4	1.6	1.9	1.3	0.98 J	1.3	1.2	0.52 J	0.43 J	0.47 J	0.39 J	0.4 J
Tetrachloroethene	4.43	28	6.6	4	10	3.9	2.6	4.7	7.6	10	7.4	4.4	6.1	5.1	1	1.1	1.5	1.3	1.2
Trichloroethene	205	3700	940	610	1,400	630	530	810	1000	1300	940	1100	940	1300	270	180	220	170	170
Degradation Products																			
1,1-Dichloroethene	4800	0.85 J (J)	1	0.91 J	0.89 J	0.89 J	0.91 J	1.8	1.4	1.4	1.2	0.69 J	1.5	1.1	0.63 J	0.37 J	0.68 J	0.51 J	0.73 J
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	8.5	9.2	11	12	15	15	60	21	19	30	21	17	32	12	8.6	12	9.9	12
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	1.2	0.76 J	0.94 J	1	1	0.82 J	1.1	1	1.1	1.1	0.84 J	1.1	0.95 J	0.61 J	0.46 J	0.59 J	0.47 J	0.63 J
Vinyl chloride	3.86	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	2.5	26	< 0.8	1.1	0.34 J	0.39 J	2.3	3.1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW20 (Bedrock)															
		6/11/14	9/9/14	12/11/14	2/26/15	6/2/15	8/25/15	12/2/15	3/7/16	9/27/16	3/16/17	9/14/17	3/14/18	09/17/18	03/13/19	9/25/19	3/18/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	1.5	< 1.0	1.8	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	0.49 J	0.64 J	0.87 J	1.3	0.66 J	0.44 J	< 1.0	0.39 J	< 1.0	< 1.0	< 1	0.21 J	< 1	0.49 J	< 1	0.37 J
Chloroform	986	0.33 J	0.45 J	0.77 J	1.4	0.32 J	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1	< 1	< 1	0.56 J	< 1	< 1
Tetrachloroethene	4.43	1.1	1.4	2.3	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	0.32 J	< 1	1.5	< 1	2.2
Trichloroethene	205	150	210	370	12	0.29 J	< 1.0	4.8	1.3	0.59 J	7.8	0.88 J	33	< 1	150	0.90 J	120
Degradation Products																	
1,1-Dichloroethene	4800	0.42 J	0.73 J	1.0	2.7	0.51 J	0.94 J	0.71 J	0.69 J	< 1.0	0.44 J	0.52 J	1.3	< 1	4.1	< 1	3.8
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	0.34 J	0.26 J	< 1.0	< 1.0	< 1	0.24 J	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	5.2	< 5	2.7 J *
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	7.9	12	14	1300	170	600	240	140	2	69	99	290	36	530	1.4	250 *
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	0.43 J	0.63 J	0.76 J	3.9	1.2	3.6	4.0	1.9	0.68 J	4.1	3.3	2.7	< 1	4.1	0.90 J B	2.7
Vinyl chloride	3.86	< 0.8	2.7	1.2	3.1	210	560	320	100	1.6	88	130	84	36	140	1.7	98

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW21 (Residuum)																	
		2/10/03	10/4/05	11/5/07	2/4/10	3/31/10	6/7/10	9/8/10	12/6/10	3/8/11	9/13/11	3/21/12	6/20/12	9/20/12	12/12/12	3/27/13	6/13/13	9/25/13	12/17/13	3/26/14
COCs		Historical			Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	4.8	2.9	< 1.0	4.2	7.7	4.3	5	1.1	0.63 J	0.74 J	1.8	0.61 J	0.52 J	0.22 J	0.41 J	6.1	2.3	1.3	5
1,1,2-Trichloroethane	50.2	1.5	1.6	0.92 J	0.85 J	1.1	1.3	1	1.1	0.72 J	0.97 J	1.2	1.1	1.2	0.83 J	0.2 J	0.85 J	1.1	0.71 J	0.74 J
Chloroform	986	0.49 J (J)	0.55 J	0.37 J	0.3 J	0.33 J	0.43 J	0.35 J	0.39 J	0.29 J	0.38 J	0.42 J	0.31 J	0.43 J	0.3 J	< 1.0	0.28 J	0.31 J	0.28 J	0.26 J
Tetrachloroethene	4.43	3.3	3.3	2.9	1.7	2.4	2.6	2.4	2.8	2.4	2.4	1.9	2.4	2.9	2.3	1.3	1.5	2.1	1.9	2
Trichloroethene	205	410	430	390	190	260	280	250	330	310	260	230	360	330	340	140	200	240	190	220
Degradation Products																				
1,1-Dichloroethene	4800	1.2	1.1	1.4	0.47 J	0.51 J	0.71 J	0.8 J	1.0	0.78 J	0.94 J	0.58 J	0.73 J	1.1	1	0.57 J	0.36 J	0.41 J	0.44 J	0.4 J
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	69	40	40	22	25	32	30	41	24	34	18	37	42	43	16	16	22	17	20
Methylene chloride	375	0.53 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	8.1	4.3	3.6	1.8	2.1	3	2.7	3.7	2.2	2.7	1.6	2.3	2.9	2.8	1.9	1.2	1.6	1.4	1.6
Vinyl chloride	3.86	0.58 J (J)	< 1.0	0.23 J	0.27 J	1.7	0.27 J	0.92	1.1	0.33 J	0.61 J	< 0.8	0.46 J	0.35 J	0.99	< 0.8	0.25 J	0.64 J	< 0.8	0.25 J

VOCs (µg/L)	GS RBTL	CWM-183-MW21 (Residuum)															
		6/11/14	9/8/14	12/9/14	2/26/15	6/3/15	8/27/15	12/2/15	3/4/16	9/28/16	3/16/17	9/15/17	3/14/18	09/20/18	03/18/19	10/2/19	3/18/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		9th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	2.3	1.4	0.99 J	0.77 J	0.49 J	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1	< 1	0.70 J	0.7 J	< 1	< 1
1,1,2-Trichloroethane	50.2	0.59 J	0.86 J	0.88 J	0.72 J	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	0.23 J	0.3 J	0.28 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	1.5	1.0	1.5	0.59 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	150	150	180	46	3.0	3.0	12	3.7	1.4	11	0.99 J	2.8	1.1	2.2	2.9	12
Degradation Products																	
1,1-Dichloroethene	4800	0.34 J	0.36 J	0.47 J	0.69 J	0.55 J	0.25 J	0.24 J	0.22 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	0.36 J	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	17	20	22	180	180	55	37	29	0.7 J	8.7	2.6	7.2	1.5	3.4	4.5	4
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	1.3	1.5	1.6	2.2	2.3	1.7	1.9	2.3	1.2	1.6	1.5	1	1.6	1.0	1.4	0.69 J
Vinyl chloride	3.86	0.32 J	0.84	0.35 J	0.34 J	13	28	15	23	1.3	5.9	4.4	10	4.0	3.4	4.4	6.1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW22 (Bedrock)																	
		2/12/03	10/4/05	11/5/07	2/4/10	3/31/10	6/7/10	9/8/10	12/6/10	3/8/11	9/13/11	3/21/12	6/20/12	9/20/12	12/12/12	3/27/13	6/13/13	9/25/13	12/17/13	3/26/14
COCs		Historical			Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	42 J (J)	< 1.0	< 1.0	< 1.0	< 1.0	2.1	5.5	0.52 J	0.59 J	4.3	0.26 J	2.7	1.1	1.4	3.5	4.1	0.94 J	0.24 J	0.39 J
1,1,2-Trichloroethane	50.2	5.5	< 1.0	< 1.0	0.29 J	< 1.0	0.69 J	1.5	1.6	0.38 J	< 1.0	< 1.0	1.5	0.96 J	1.1	0.76 J	0.49 J	0.49 J	0.21 J	0.26 J
Chloroform	986	0.75 J (J)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4.43	8.7	1.2	1.3	1.1	1.9	1.8	2.3	1.5	1.9	1.7	1.5	2.4	2.3	2.5	1.8	1.1	0.9 J (JSA)	1.3	1.0
Trichloroethene	205	1100 (J)	170	240	160	190	210	280	300	250	200	190	420	350	510	170	150	140	140	140
Degradation Products																				
1,1-Dichloroethene	4800	1.7	0.6 J	1.2	0.74 J	0.87 J	0.8 J	0.91 J	0.83 J	0.91 J	0.87 J	0.82 J	0.8 J	1.2	1.2	0.36 J	0.44 J	0.48 J (JS)	0.59 J	0.45 J
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	0.39 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	77	35	41	25	24	25	32	37	28	24	22	40	48	54	18	13	20 (JS)	15	15
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	8.9	4.1	6.2	2.7	2.8	2.7	3.4	3.8	3.2	2.8	2.7	3	3.8	4.5	1.3	1.3	1.5 (JS)	1.6	1.4
Vinyl chloride	3.86	0.88 J (J)	< 1.0	0.69 J	0.23 J	< 0.8	0.23 J	0.47 J	0.45 J	0.44 J	0.25 J	< 0.8	0.36 J	0.65 J	1.3	< 0.8	< 0.8	0.29 J (JS)	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW22 (Bedrock)															
		6/11/14	9/8/14	12/9/14	2/26/15	6/3/15	8/27/15	12/2/15	3/4/16	9/26/16	3/15/17	9/15/17	3/14/18	09/20/18	03/18/19	10/2/19	3/18/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		9th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	0.21 J	1.7	0.25 J	0.49 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	0.29 J	0.66 J	0.2 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	0.94 J	0.94 J	0.67 J	< 1.0	< 1.0	< 1.0	0.23 J	0.20 J	< 1.0	0.27 J	0.5 J	0.3 J	< 1	< 1	< 1	< 1
Trichloroethene	205	110	150	130	17	3.9	6.0	29	26	27	26	35	23	32	19	19	9.5
Degradation Products																	
1,1-Dichloroethene	4800	0.36 J	0.41 J	0.4 J	0.69 J	0.66 J	0.25 J	0.42 J	0.30 J	0.24 J	0.35 J	0.26 J	< 1	< 1	< 1	0.64 J (B)	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1 *	< 1
Cis-1,2-Dichloroethene	991	12	18	16	130	140	47	51	44	35	40	24	20	14	14	96	11
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	1.1	1.5	1.5	1.5	2.5	2.7	2.4	1.4	1.3	1.9	1.6	0.97 J	1.5	0.63 J	3.1	0.58 J
Vinyl chloride	3.86	< 0.8	< 0.8	0.26 J	0.39 J	1.1	12	7.4	3.9	2.9	14	6.1	4	4.6	1.4	39	5.9

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

	GS	CWM-183-MW23 (Residuum)																	
VOCs (µg/L)	RBTL	2/5/03	10/5/05	11/7/07	2/4/10	4/1/10	6/8/10	9/7/10	12/6/10	3/10/11	9/13/11	3/21/12	6/20/12	9/20/12	12/13/12	3/27/13	6/13/13	9/25/13	12/17/13	3/27/14
COCs		**Historical**			**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	740	12,000	510	7,400	72,000	58,000	28,000	16,000	110	19000	580	19000	1800	1700	390	76,000	84,000	1100	86,000
1,1,2-Trichloroethane	50.2	0.35 J (J)	6.7	0.47 J	3.4	42	37 (JS)	17	8.8	< 1	11	0.29 J	7.6 (JS)	1.4 (JS)	1.1	0.24 J	27	31	0.37 J	43 (JS)
Chloroform	986	1.4	22	5.4	12	99	89 (JS)	46	25	0.32 J	28	0.53 J	17 (JS)	4.3 (JS)	4.9	0.51 J	23	44	0.53 J	49 (JS)
Tetrachloroethene	4.43	7.2	110 (JS)	31	130	700	550	280	120	1.6	120	7.4	100 (JS)	17 (JS)	13	2	61	110	12	120
Trichloroethene	205	270	3600 (JS)	1,000	2,000	19,000	17,000	8,900	4,200	81	4200	140	4000	630	620	120	3100	5300	230	5700
Degradation Products																				
1,1-Dichloroethene	4800	< 1.0	0.42 J	< 1.0	< 1.0	1.3	1.5 (JS)	< 1.0	0.29 J	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	0.39 J (JS)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 1.0	0.27 J (JS)
Chloroethane	955	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 2.0	< 2.0
Chloromethane	216	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	3.7	49	9.6	25	380	330	94	54	0.85 J	61	1.3	43 (JS)	7 (JS)	6.5	1.5	66	120	1.7	130
Methylene chloride	375	0.44 J (B)	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UJBS)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 2.0	0.63 J (JS)
Trans-1,2-Dichloroethene	1,950	0.57 J (J)	3.9	0.69 J	1.9	13	13 (JS)	14	3.2	< 1	3.7	< 1.0	1.9 (JS)	0.49 J (JS)	0.4 J	< 1.0	1.9	< 25	< 1.0	5.2 (JS)
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 20	< 0.8	< 0.8

	GS	CWM-183-MW23 (Residuum)															
VOCs (µg/L)	RBTL	6/12/14	9/10/14	12/16/14	3/3/15	6/4/15	9/1/15	12/9/15	3/8/16	9/28/16	3/21/17	9/18/17	3/15/18	09/20/18	03/18/19	9/26/19	3/19/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	680	54,000	18,000	560	79000	40000	3300	62,000	4200	2700	25000	21,000	26000	30000	< 500	< 500
1,1,2-Trichloroethane	50.2	0.34 J	27	12	0.27 J	55	22	1.3	34	20	1.5	120	120	< 500	< 500	< 500	< 500
Chloroform	986	0.53 J	45	20	0.4 J	62	32	2.2	43	23	1.8	42	28	< 500	< 500	< 500	< 500
Tetrachloroethene	4.43	13	86	64	8.5	130	65	19	73	65	8.5	6.2	32	< 500	< 500	780 B	< 500
Trichloroethene	205	350	4300	3,100	130	7000	3800	780	5,200	420	420	1900	3,200	1500	660	< 500	< 500
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 10	< 1.0	< 1.0	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5 J	3.9	< 500	< 500	< 500	< 500
1,2-Dichloroethane	30.8	< 1.0	< 10	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 5	0.33 J	< 500	< 500	< 500	< 500
Chloroethane	955	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 10	< 2	< 2500	< 2500	< 2500	< 2500
Chloromethane	216	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 10	< 2	< 500	< 500	< 500	< 500
Cis-1,2-Dichloroethene	991	1.6	120	48	1.2	190	77	6.8	130	62	20	160	170	5600	5300	10000 B	7600
Methylene chloride	375	< 2.0	< 20	< 2.0	< 2.0	2 U^ (UB)	2 U^ (UB)	< 2.0	< 2.0	0.55 J	< 2	2.8 J	0.83 J	< 2500	< 2500	< 2500	< 2500
Trans-1,2-Dichloroethene	1,950	< 1.0	3.8 J	1.9	< 1.0	6.8	2.6	0.51 J	2.7	4.1	2.2	17	28	< 500	< 500	440 J	510
Vinyl chloride	3.86	< 0.8	< 8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	15	11	< 500	< 500	680	1900

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW25 (Residuum)																	
		5/25/04	10/5/05	11/5/07	2/3/10	3/31/10	6/8/10	9/8/10	12/8/10	3/8/11	9/13/11	3/19/12	6/21/12	9/20/12	12/13/12	3/26/13	6/13/13	9/26/13	12/16/13	3/26/14
COCs		Historical			Baseline/1st Year O&M (SVE)						2nd Year O&M (SVE)		3rd Year O&M (SVE)				4th Year O&M (SVE)			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	38	0.49 J	< 1.0	< 1.0	0.3 J	< 1.0	0.89 J	< 1.0	0.39 J	< 1.0	1.4	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	205	< 1.0	< 1.0	0.26 J	0.24 J	0.37 J	52	2.9	< 1	0.38 J	1.9	< 1.0	2	0.57 J	1.4	< 1.0	0.59 J	0.26 J	< 1.0	< 1.0
Degradation Products																				
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.2 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 1.0	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW25 (Residuum)															
		6/10/14	9/9/14	12/9/14	2/26/15	5/28/15	8/25/15	12/2/15	2/29/16	9/22/16	3/15/17	9/15/17	3/13/18	09/17/18	03/12/19	9/25/19	3/17/20
COCs		5th Year O&M (SVE)		5th Year O&M (ISB)		6th Year O&M (ISB)				7th Year O&M (ISB)		8th Year O&M (ISB)		9th Year O&M (ISB)		10th Year O&M (ISB)	
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	< 1.0	1.2	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	0.77 J	< 1	< 1	< 1	< 1	< 1
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1 *
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1 *
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

VOCs (µg/L)	GS RBTL	CWM-183-MW28 (Bedrock)																
		10/7/05	2/3/10	4/1/10	6/9/10	9/8/10	12/7/10	3/10/11	9/15/11	3/19/12	6/19/12	9/21/12	12/13/12	3/28/13	6/11/13	9/24/13	12/16/13	3/26/14
COCs		**Historical**	**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	4.9	0.54 J	0.88 J	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4.43	< 1.0	< 1.0	0.78 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	205	0.28 J	0.35 J	13	1.5	1.5	1.7	0.93 J	0.7 J	< 1.0	< 1.0	< 1.0	0.72 J	1.3	< 1.0	1.2	0.22 J	0.5 J
Degradation Products																		
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.32 J	< 2.0
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

VOCs (µg/L)	GS RBTL	CWM-183-MW28 (Bedrock)															
		6/9/14	9/10/14	12/10/14	2/27/15	6/3/15	8/25/15	12/2/15	3/4/16	9/22/16	3/17/17	9/15/17	3/14/18	09/19/18	03/12/19	9/24/19	3/17/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1	< 1	< 1	< 1	< 1
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.42 J	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

	GS	CWM-183-MW31 (Bedrock)															
VOCs (µg/L)	RBTL	10/6/05	2/3/10	4/1/10	6/9/10	9/8/10	12/7/10	3/10/11	9/15/11	3/19/12	6/19/12	9/21/12	12/14/12	3/29/13	6/11/13	9/26/13	12/16/13	3/27/14
COCs		**Historical**	**Baseline/1st Year O&M (SVE)**						**2nd Year O&M (SVE)**		**3rd Year O&M (SVE)**				**4th Year O&M (SVE)**			
1,1,2,2-Tetrachloroethane	13.6	< 1.0	< 1.0	4.2	0.49 J	0.44 J	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	4.43	< 1.0	< 1.0	0.56 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	205	< 1.0	< 1.0	11	0.96 J	0.81 J	3.2	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	0.3 J	< 1.0	< 1.0	< 1.0	0.3 J	< 1.0
Degradation Products																		
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	3.86	< 1.0	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

	GS	CWM-183-MW31 (Bedrock)															
VOCs (µg/L)	RBTL	6/9/14	9/10/14	12/9/14	2/25/15	5/28/15	8/25/15	12/9/15	3/4/16	9/22/16	3/17/17	9/18/17	3/14/18	09/20/18	03/12/19	9/24/19	3/17/20
COCs		**5th Year O&M (SVE)**		**5th Year O&M (ISB)**		**6th Year O&M (ISB)**				**7th Year O&M (ISB)**		**8th Year O&M (ISB)**		**9th Year O&M (ISB)**		**10th Year O&M (ISB)**	
1,1,2,2-Tetrachloroethane	13.6	0.39 J	4.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	50.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	986	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	4.43	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	205	< 1.0	0.81 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.3 J	< 1	< 1	< 1	< 1	< 1
Degradation Products																	
1,1-Dichloroethene	4800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	30.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	955	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Chloromethane	216	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	991	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	375	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2	< 2	< 2	< 5	< 5	< 5	< 5
Trans-1,2-Dichloroethene	1,950	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	3.86	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1

Table 4-5: Groundwater Analytical Results for Corrective Action COCs and Degradation Products, LTM Compliance Wells
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Notes:
< = Indicates the analyte was not detected at the reported quantitation limit shown.
µg/L = micrograms per liter
COCs = Constituents of concern
GS = Groundskeeper
ISB = In situ bioremediation
NS = Not sampled
RBTL = Risk-Based Target Level
SVE = Soil vapor extraction remediation
VOCs = Volatile Organic Compounds
WC = too small of a water column, could not obtain sample

Lab Flags:
B = Compound was found in the blank and the sample.
F1 = MS and/or MSD Recovery is outside aceeptance limits.
J = Estimated detection. The analyte is positively identified and the concentration is less than the reporting limit (RL) but greater than the method detection limit (MDL).
U^ = Analyte is not detected above the RL; lab flag updated by MES data reviewer.
* = RPD for LCS and LCSD outside laboratory acceptance criteria.

Validation Flags:
(J) = The analyte was positively identified; reported value is an estimated concentration.
(UJ) = Analyte was analyzed for but was not detected; the reported quantitation limit is estimated.
(JA) = Estimated detection; internal standard area was outside method-specific control limits.
(JM) = Estimated detection; matrix spike and matrix spike duplicate recoveries were outside laboratory historical control limits
(JS) = Estimated detection; surrogate recovery was outside laboratory historical control limits
(UB) = Result was qualified as not detected based on blank contamination.
(UJA) = Reported quantitation limit is estimated; internal standard area was outside method-specific control limits.
(UJS) = Reported quantitation limit is estimated; surrogate recovery was outside laboratory historical control limits

Result exceeds GS RBTL

Figures

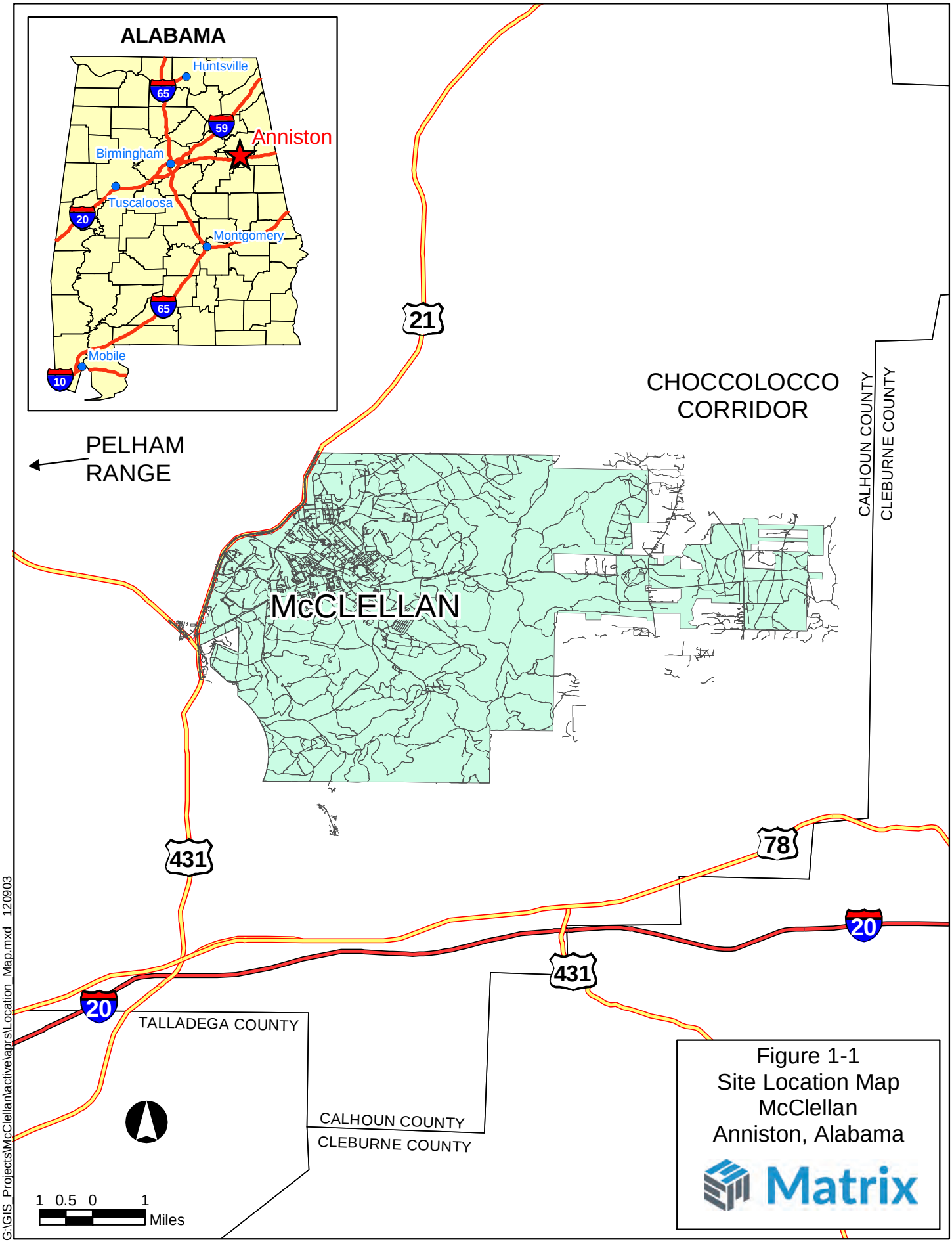
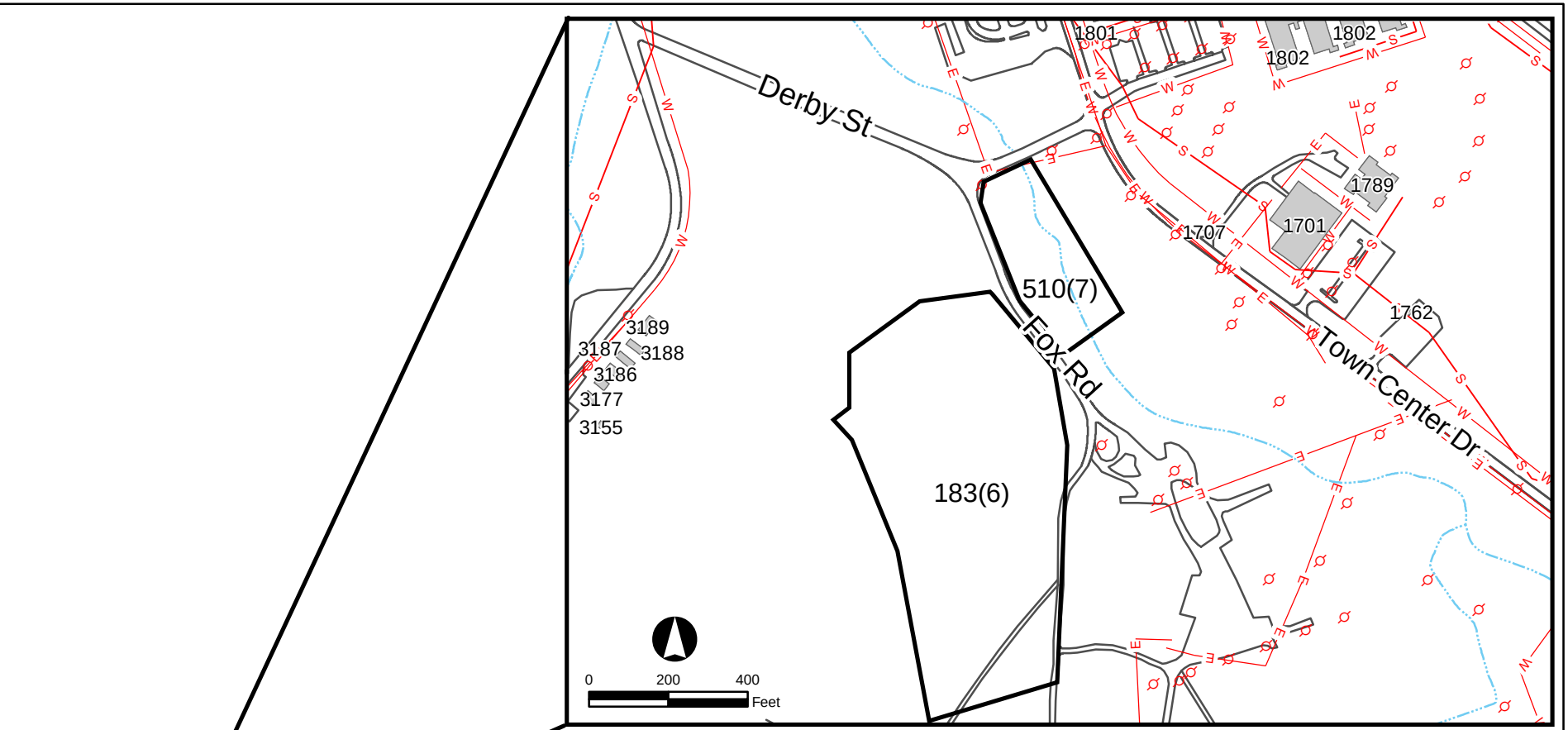


Figure 1-1
Site Location Map
McClellan
Anniston, Alabama

Matrix



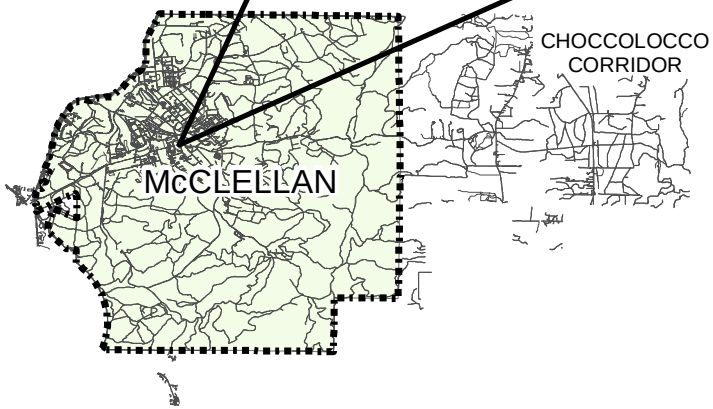


Figure 1-2
Parcel Location Map
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 510(7)
McClellan
Anniston, Alabama

Matrix

FILE: G:\gis_projects\Fort_McClellan\03.094.007\active\apps\TA_T6_183(6)\Sue\Figure1-2_Location_Map.mxd 7/17/2013 jeff_clonts

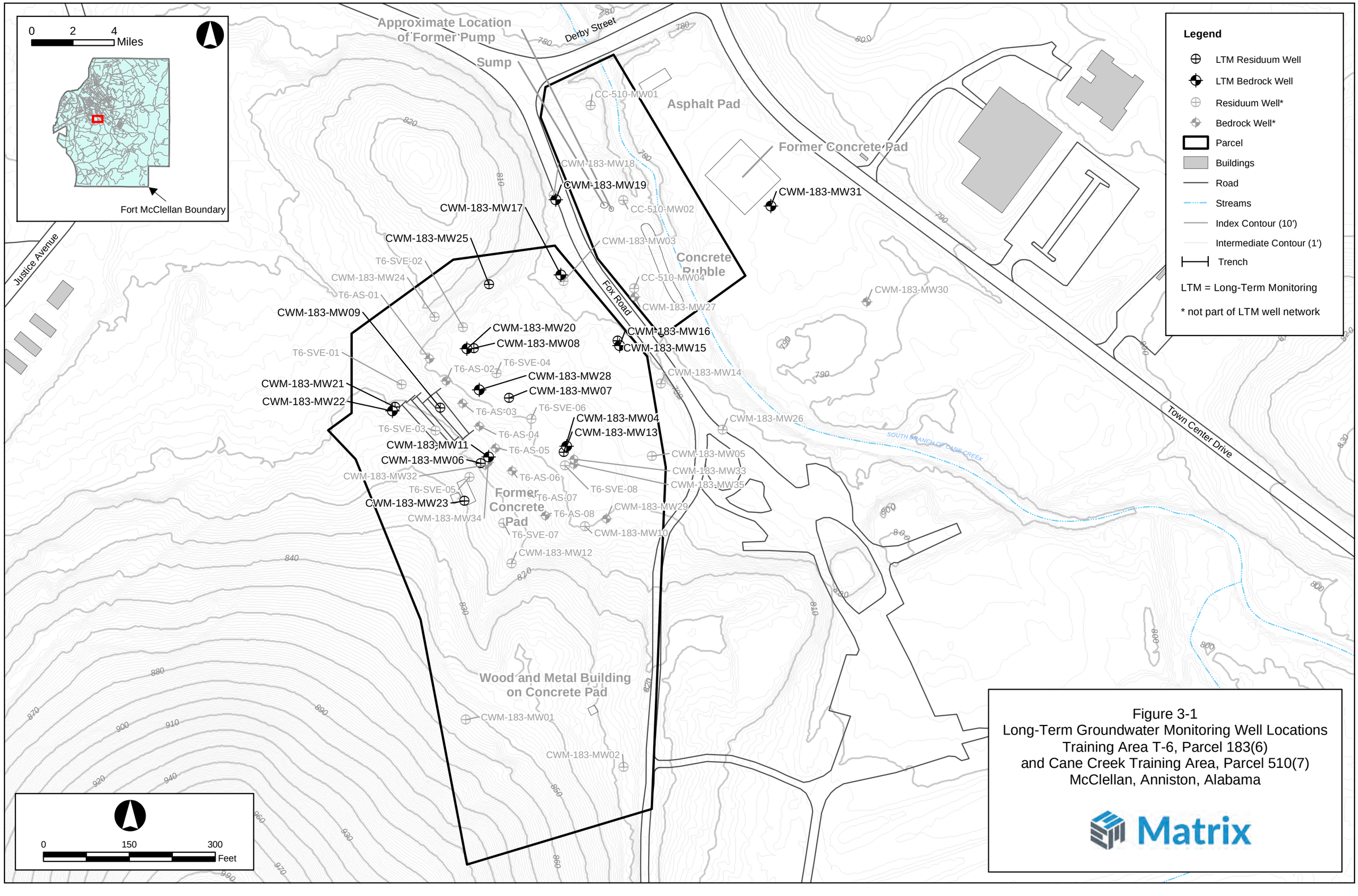


Figure 3-1
Long-Term Groundwater Monitoring Well Locations
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix

FILE: G:\gis_projects\Fort_McClellan\03.094.007\active\apps\TA_T6_183(6)\CMER_2015\Fig3-1_LTMWellLocation_March2015.mxd, 5/4/2015, jeff_clonts

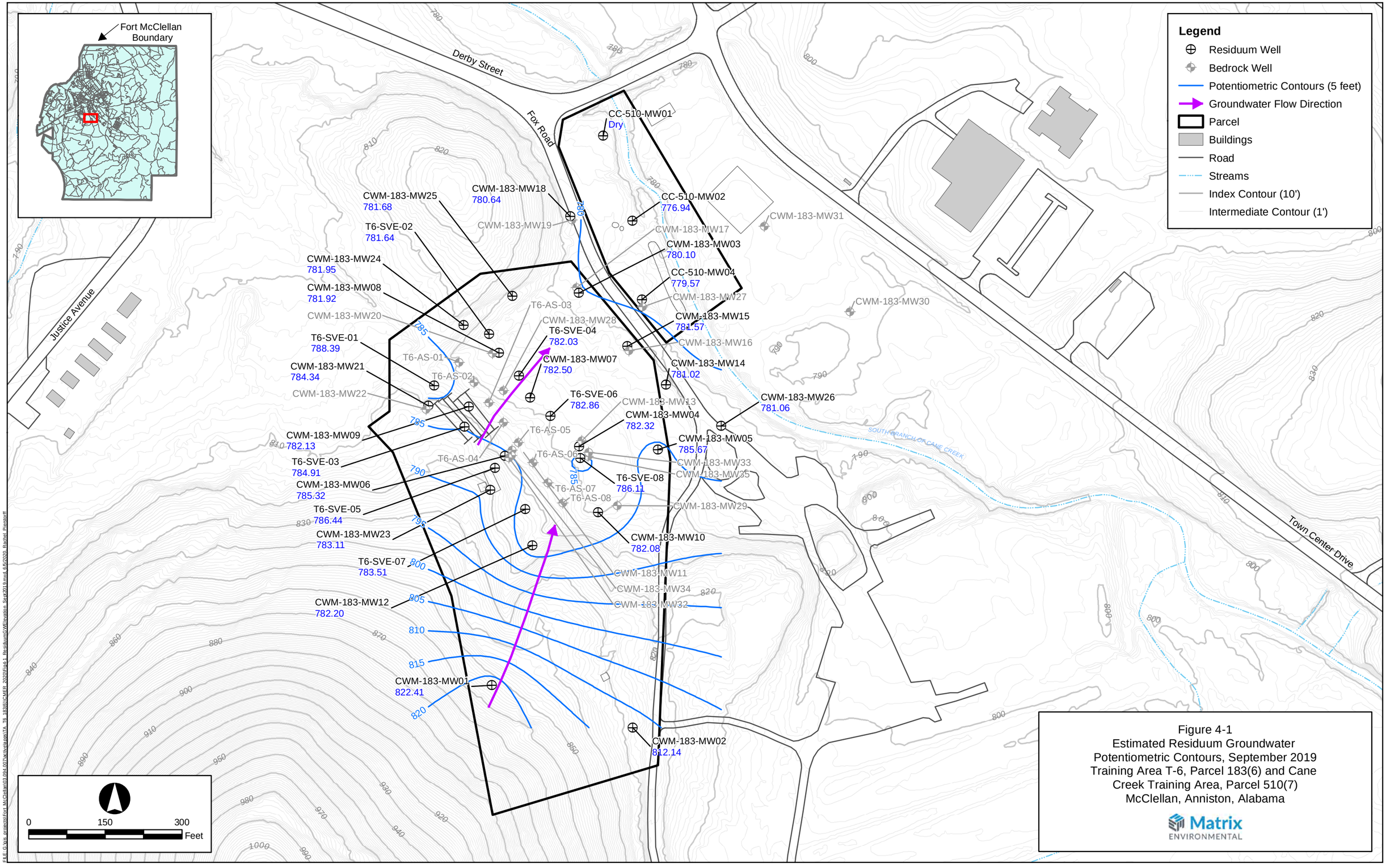


Figure 4-1
Estimated Residuum Groundwater
Potentiometric Contours, September 2019
Training Area T-6, Parcel 183(6) and Cane
Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

E:\E-G\gis projects\Fort McClellan\03-094.007\arcfiles\mxds\TA_T6_183(6)\CMER_2020\Fig4-1_ResiduumGWElevation_Sept2019.mxd 6/5/2020 Rachel Pinnell

Fort McClellan Boundary

Legend

- Bedrock Well
- Residuum Well
- Potentiometric Contours (1 foot)
- Groundwater Flow Direction
- Parcel
- Buildings
- Road
- Streams
- Index Contour (10')
- Intermediate Contour (1')

Derby Street

Town Center Drive

Justice Avenue

Fox Road

SOUTH BRANCH OF CANE CREEK

CC-510-MW01
CC-510-MW02
CC-510-MW04
CWM-183-MW01
CWM-183-MW02
CWM-183-MW03
CWM-183-MW04
CWM-183-MW05
CWM-183-MW06
CWM-183-MW07
CWM-183-MW08
CWM-183-MW09
CWM-183-MW10
CWM-183-MW11
CWM-183-MW12
CWM-183-MW13
CWM-183-MW14
CWM-183-MW15
CWM-183-MW16
CWM-183-MW17
CWM-183-MW18
CWM-183-MW19 778.44
CWM-183-MW20 781.93
CWM-183-MW21
CWM-183-MW22 783.09
CWM-183-MW23
CWM-183-MW24
CWM-183-MW25
CWM-183-MW26
CWM-183-MW27 779.93
CWM-183-MW28 781.67
CWM-183-MW29 781.65
CWM-183-MW30 781.94
CWM-183-MW31 780.67
CWM-183-MW32 785.15
CWM-183-MW33 781.66
CWM-183-MW34 782.51
CWM-183-MW35 781.65
T6-AS-01 782.02
T6-AS-02 781.72
T6-AS-03 781.77
T6-AS-04 781.81
T6-AS-05 781.70
T6-AS-06 781.64
T6-AS-07 781.35
T6-AS-08 781.31
T6-SVE-01
T6-SVE-02
T6-SVE-03
T6-SVE-04
T6-SVE-05
T6-SVE-06
T6-SVE-07
T6-SVE-08

0 150 300 Feet

Figure 4-2
Estimated Bedrock Groundwater
Potentiometric Contours, September 2019
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

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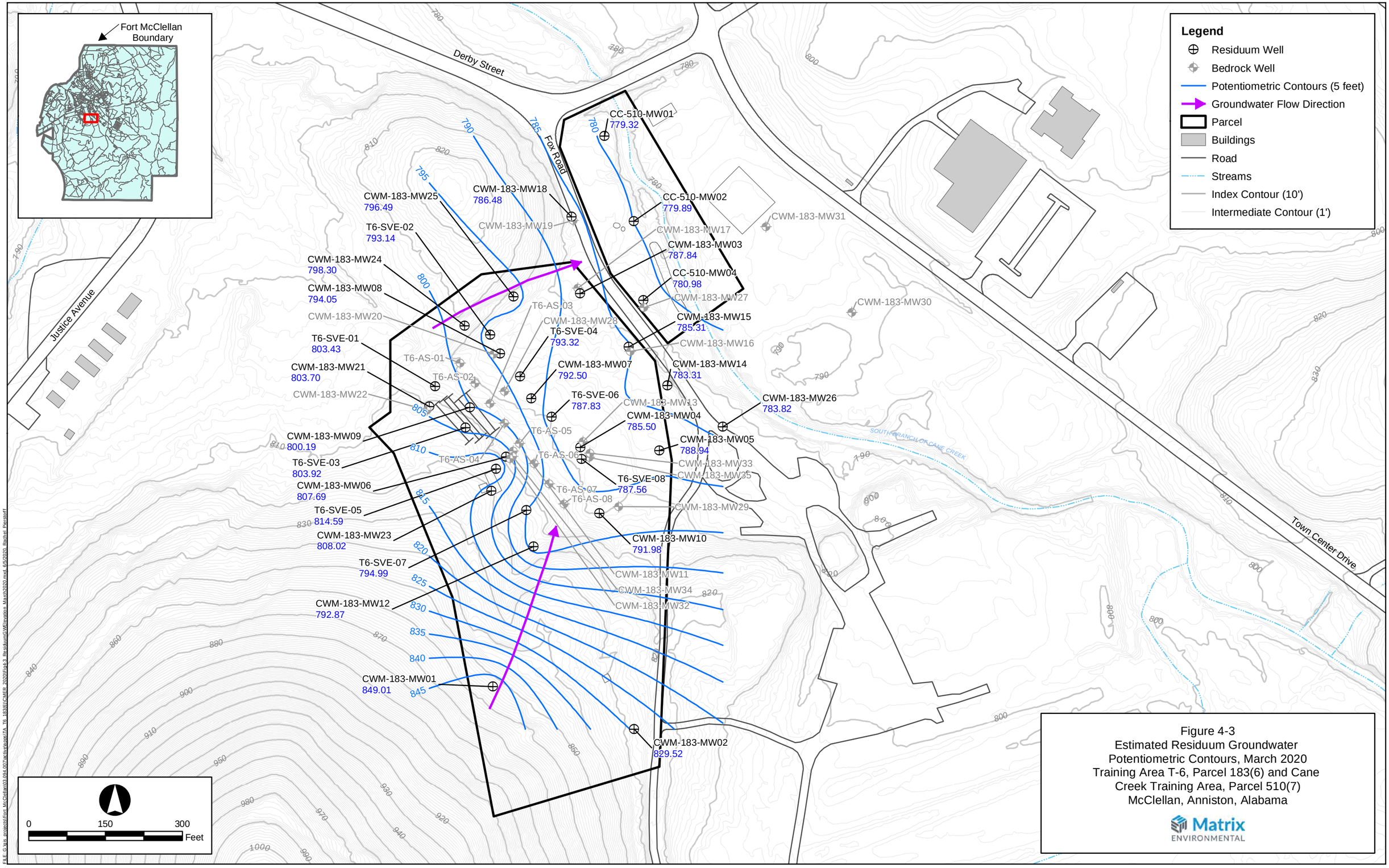


Figure 4-3
Estimated Residuum Groundwater
Potentiometric Contours, March 2020
Training Area T-6, Parcel 183(6) and Cane
Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

E:\E-G\gis projects\Fort McClellan\03-004.007\arcfiles\mxds\TA_T6_183(6)\CMER_2020\Fig4-3_ResiduumGWElevation_March2020.mxd 4/6/2020 Rachel Parsons

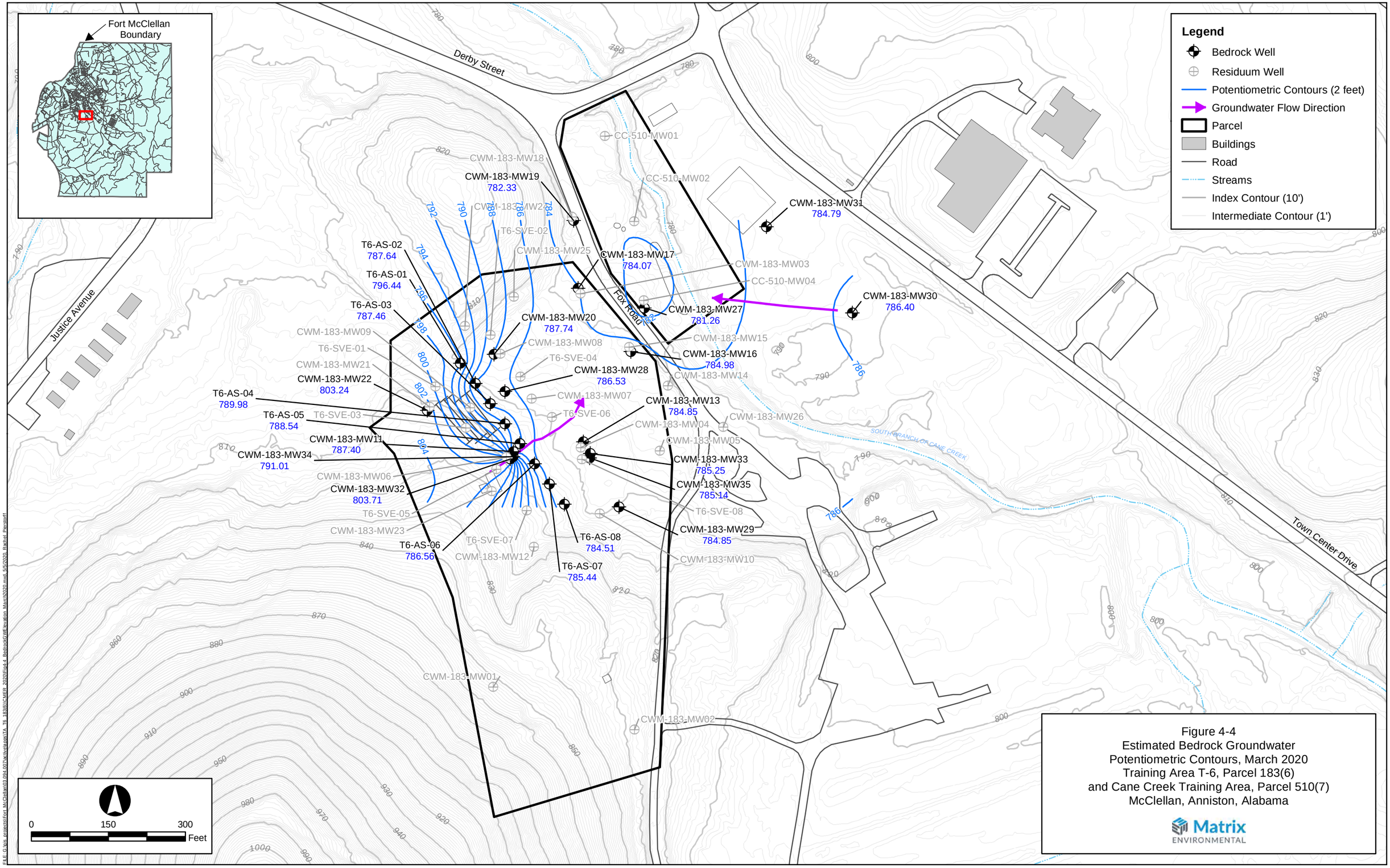
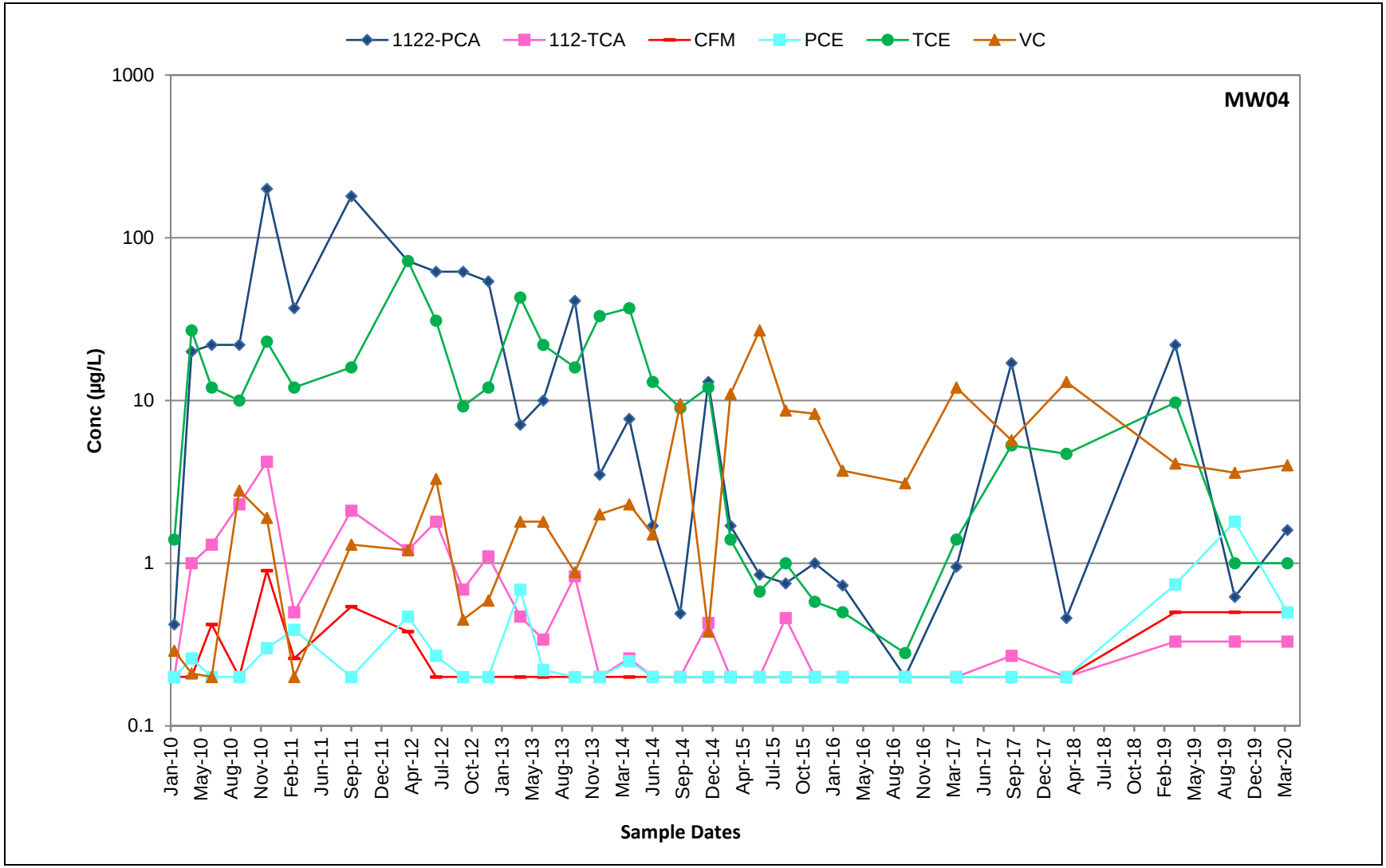


Figure 4-4
Estimated Bedrock Groundwater
Potentiometric Contours, March 2020
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

G:\gis_projects\Fort McClellan\2019\2019-014\07\ArcMap\mxd\TA T6 183(6)\CMER 2020\Fig4-4 Bedrock\GWElevation March2020.mxd, 5/5/2020, Rachel Pennorf



Matrix

Figure 4-5: Groundwater VOC Concentrations in Residuum Well CWM-183-MW04
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama

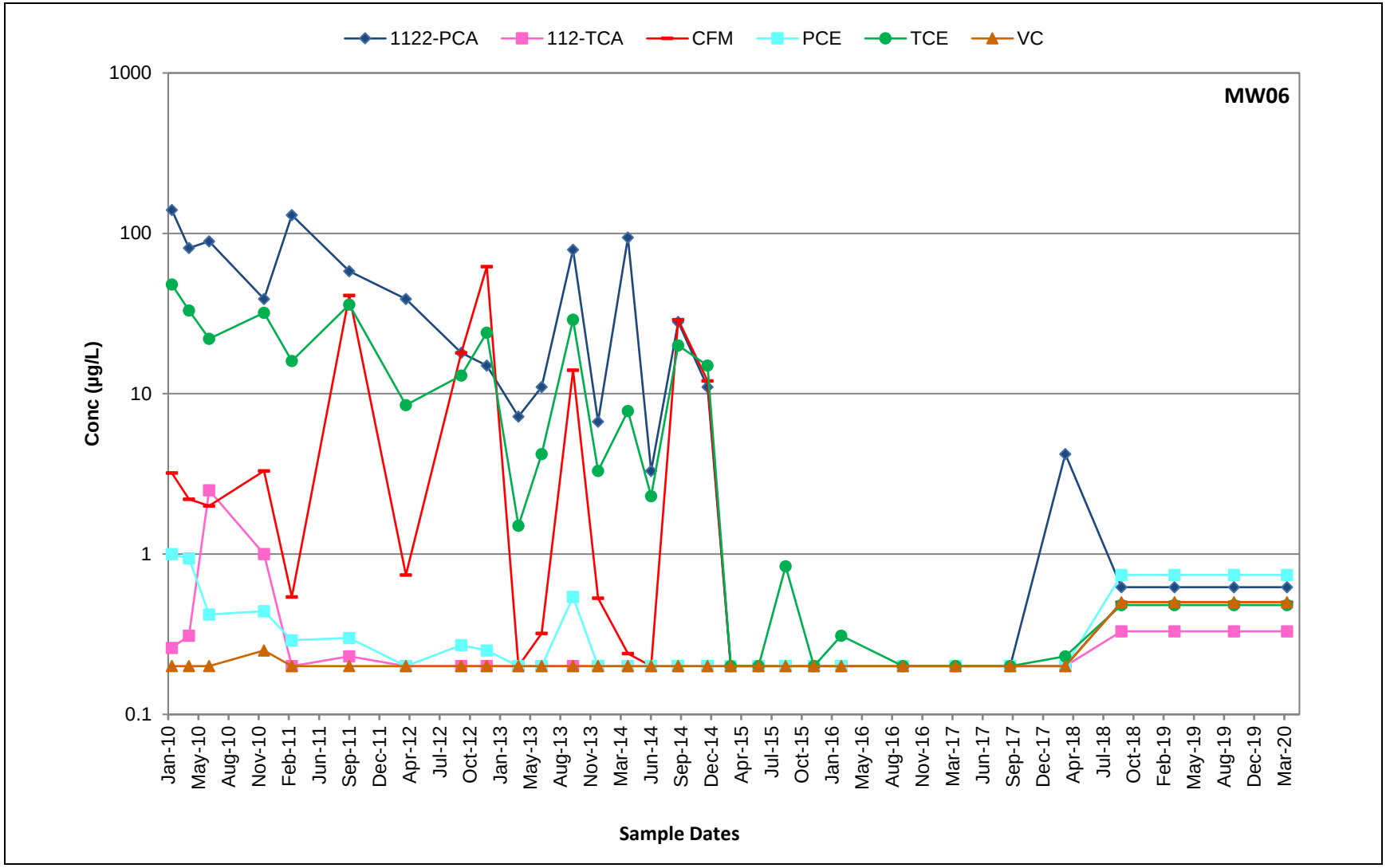
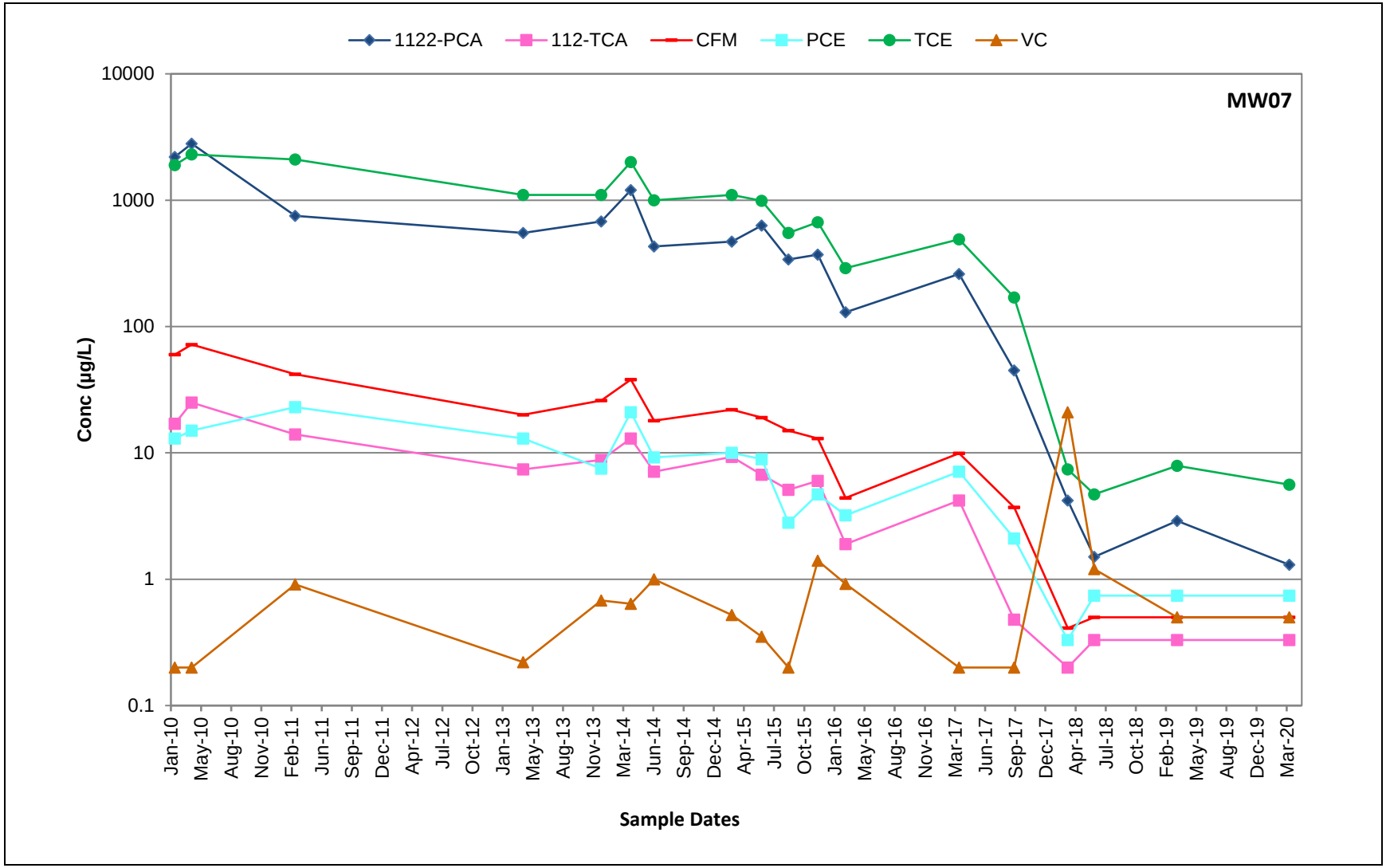
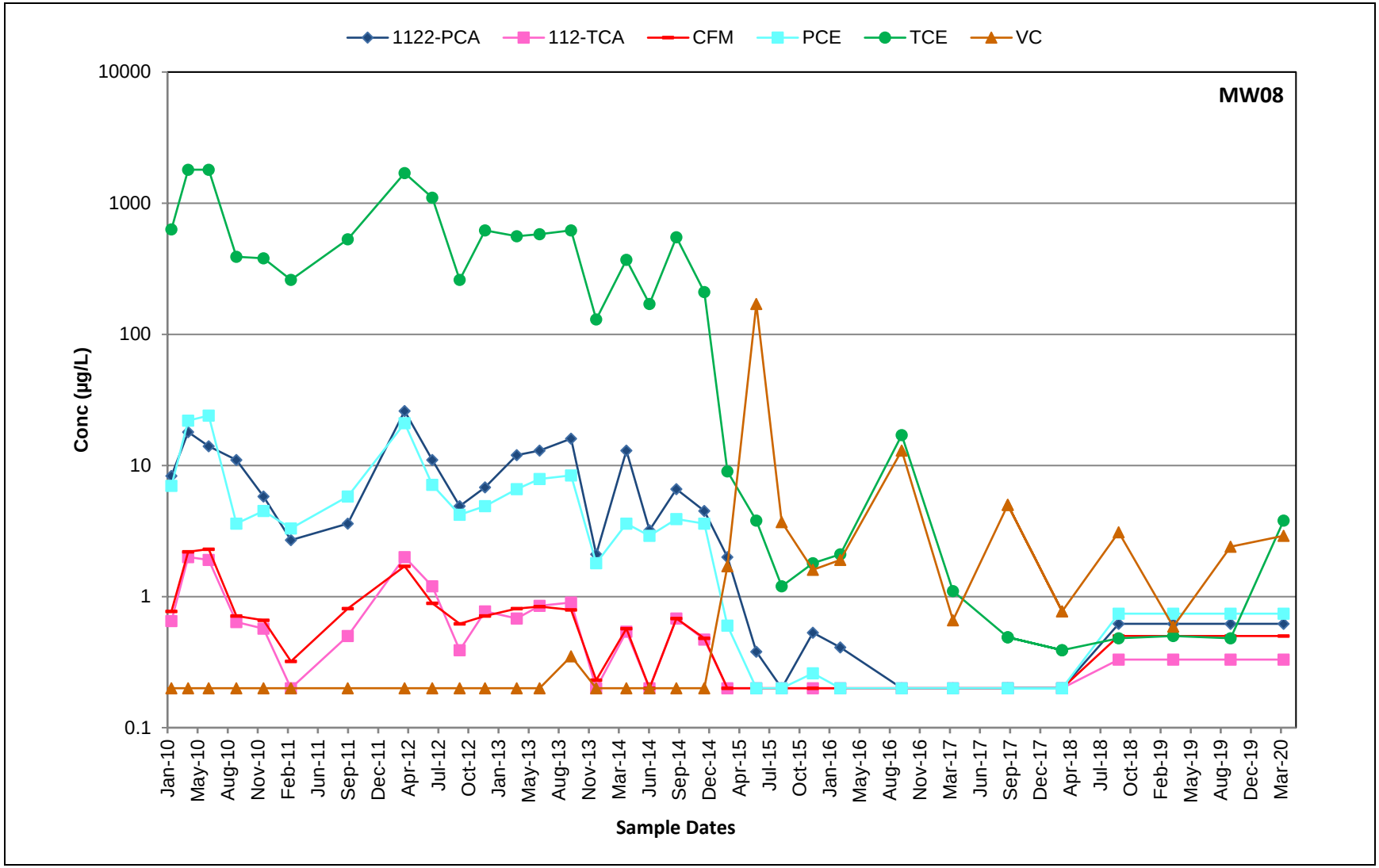


Figure 4-6: Groundwater VOC Concentrations in
Residuum Well CWM-183-MW06
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



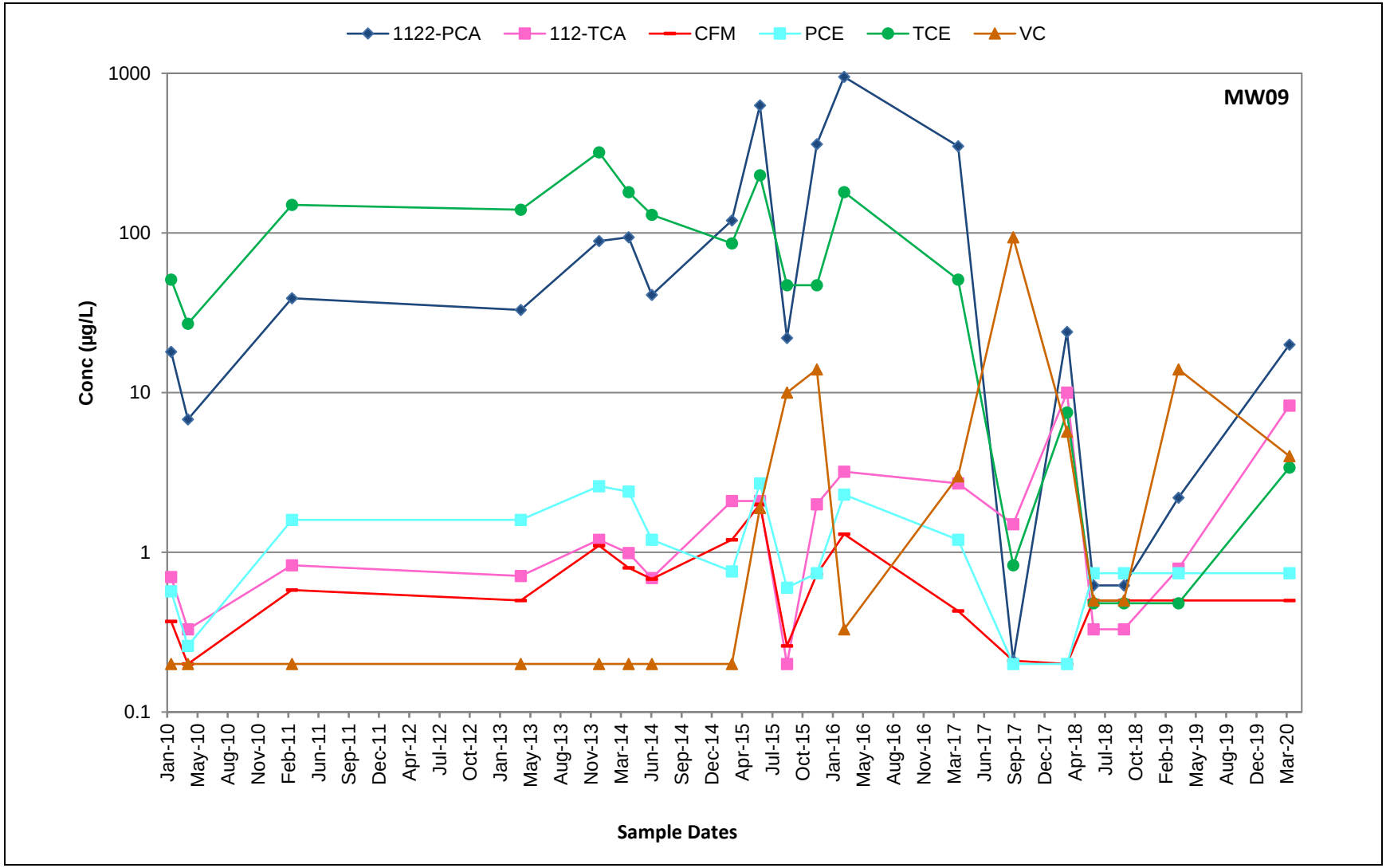
Matrix

Figure 4-7: Groundwater VOC Concentrations in
Residuum Well CWM-183-MW07
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



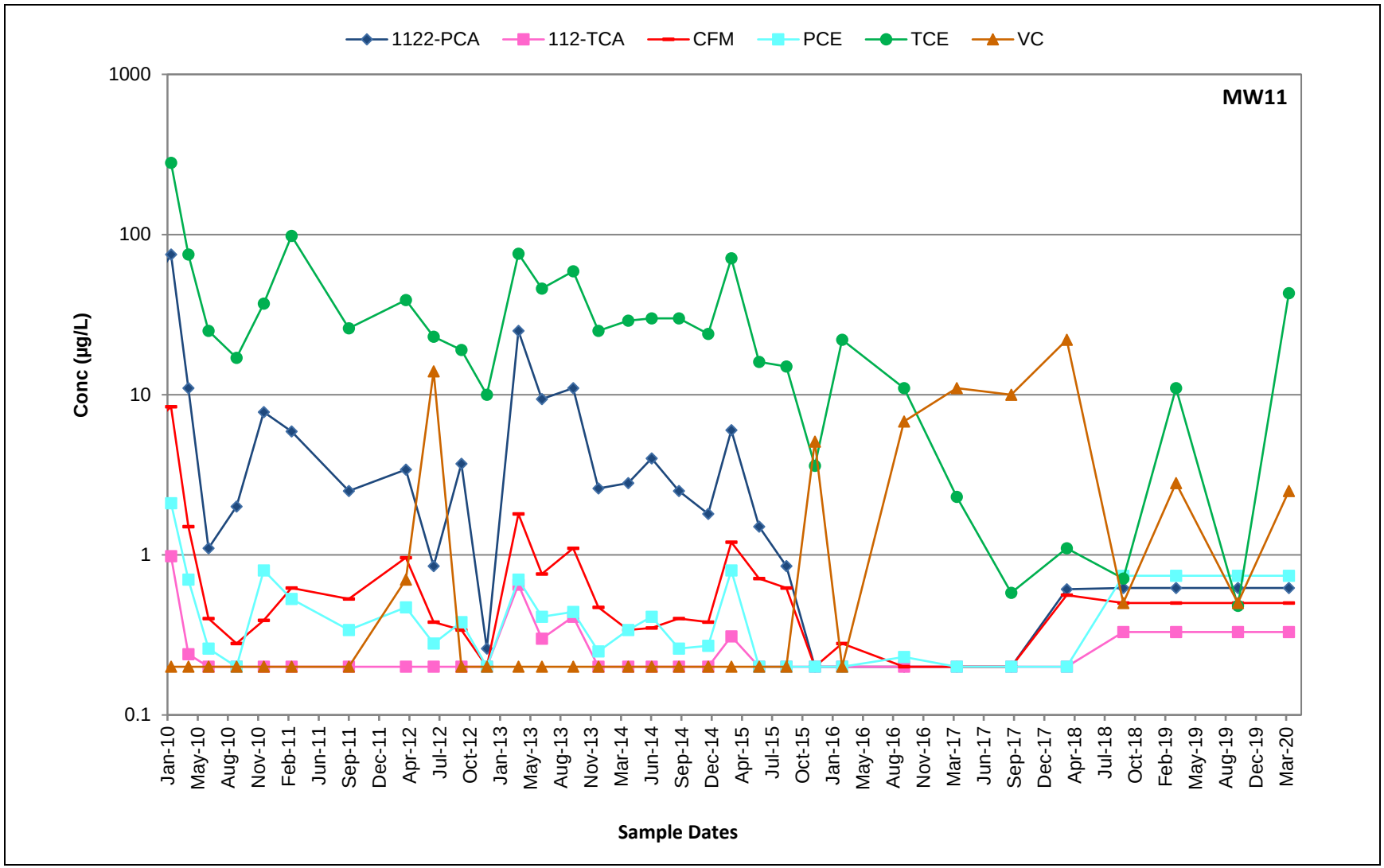
Matrix

Figure 4-8: Groundwater VOC Concentrations in
Residuum Well CWM-183-MW08
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



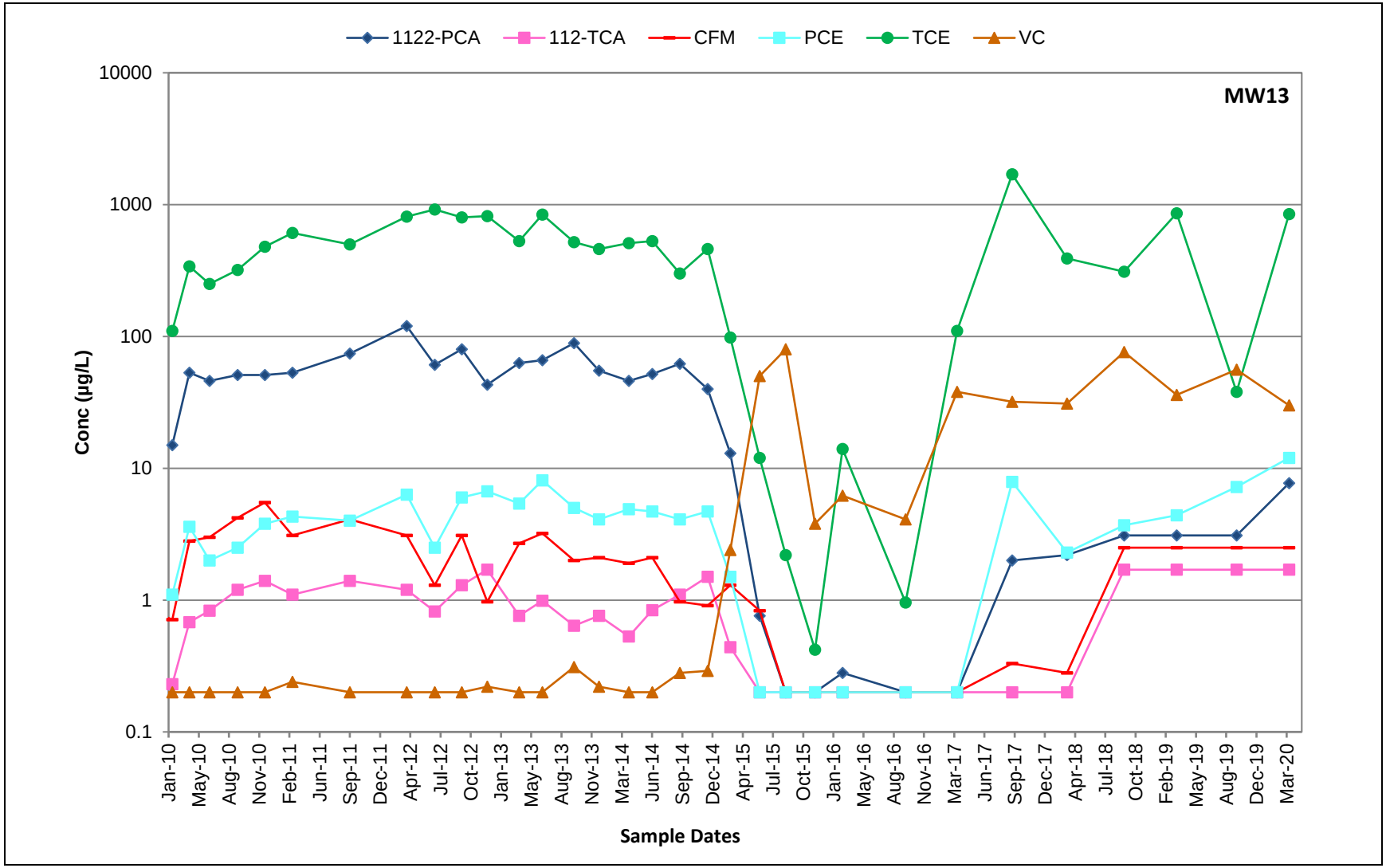
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Figure 4-9: Groundwater VOC Concentrations in
Residuum Well CWM-183-MW09
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



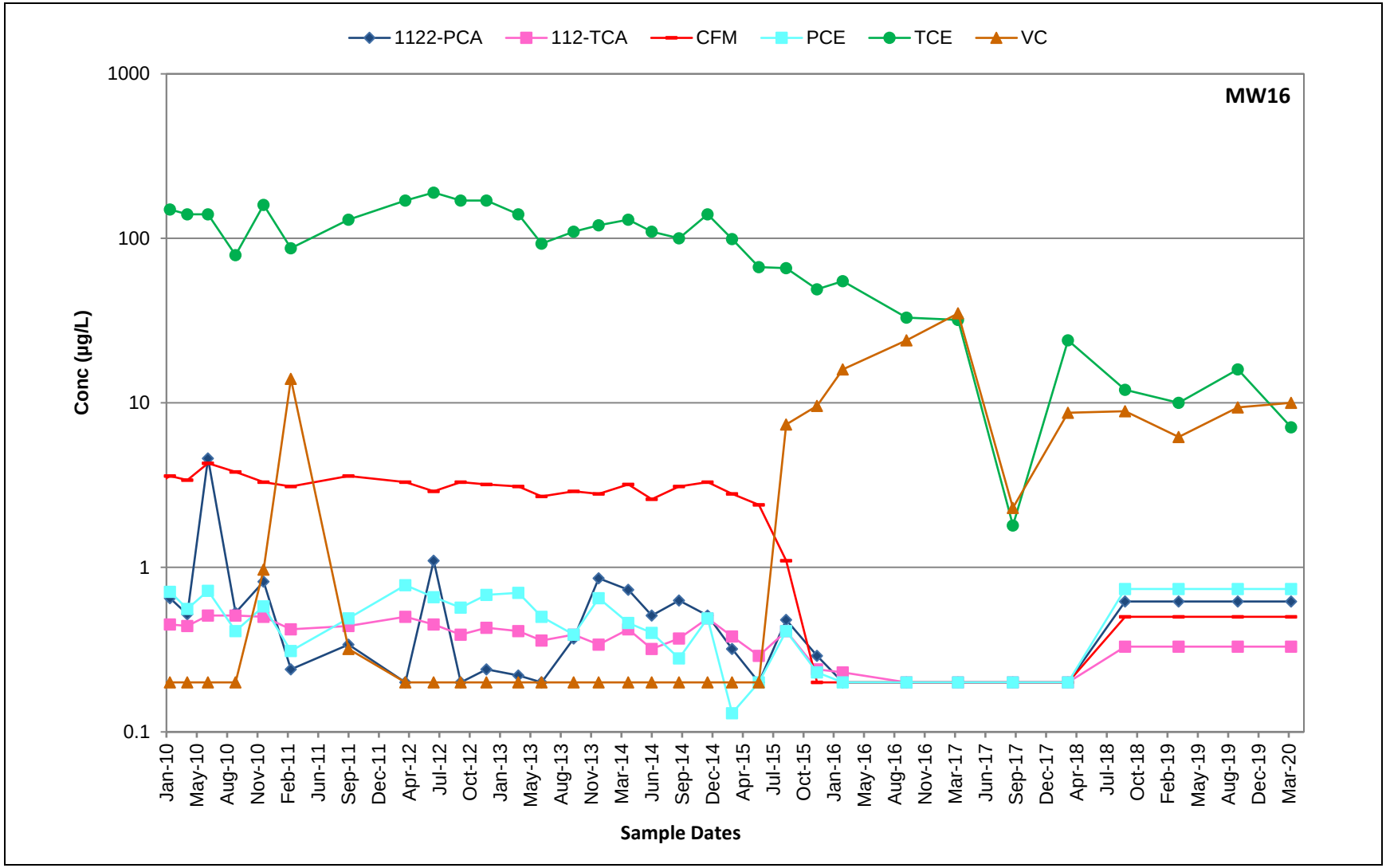
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Figure 4-10: Groundwater VOC Concentrations in
Bedrock Well CWM-183-MW11
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



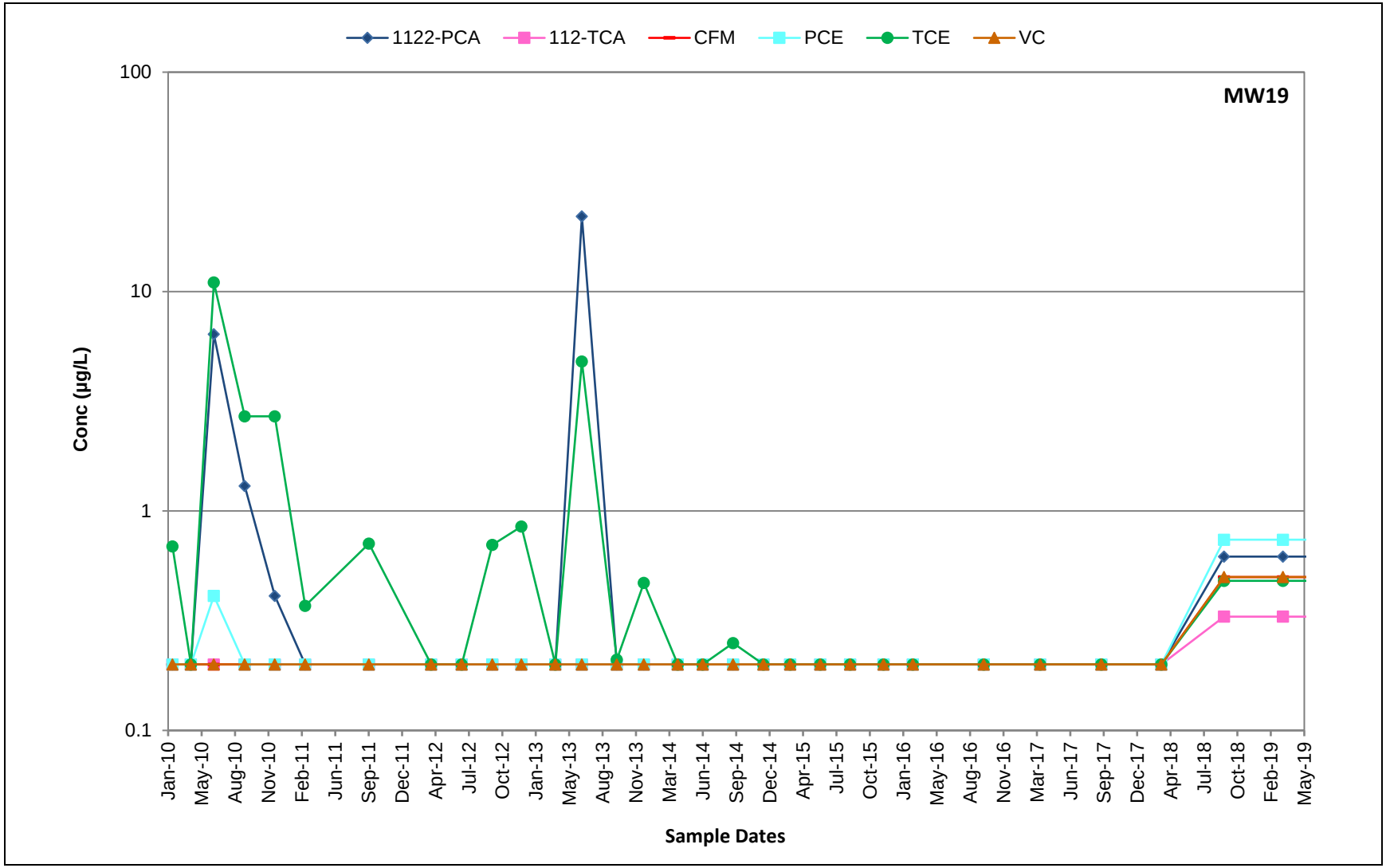
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Figure 4-11: Groundwater VOC Concentrations in
Bedrock Well CWM-183-MW13
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



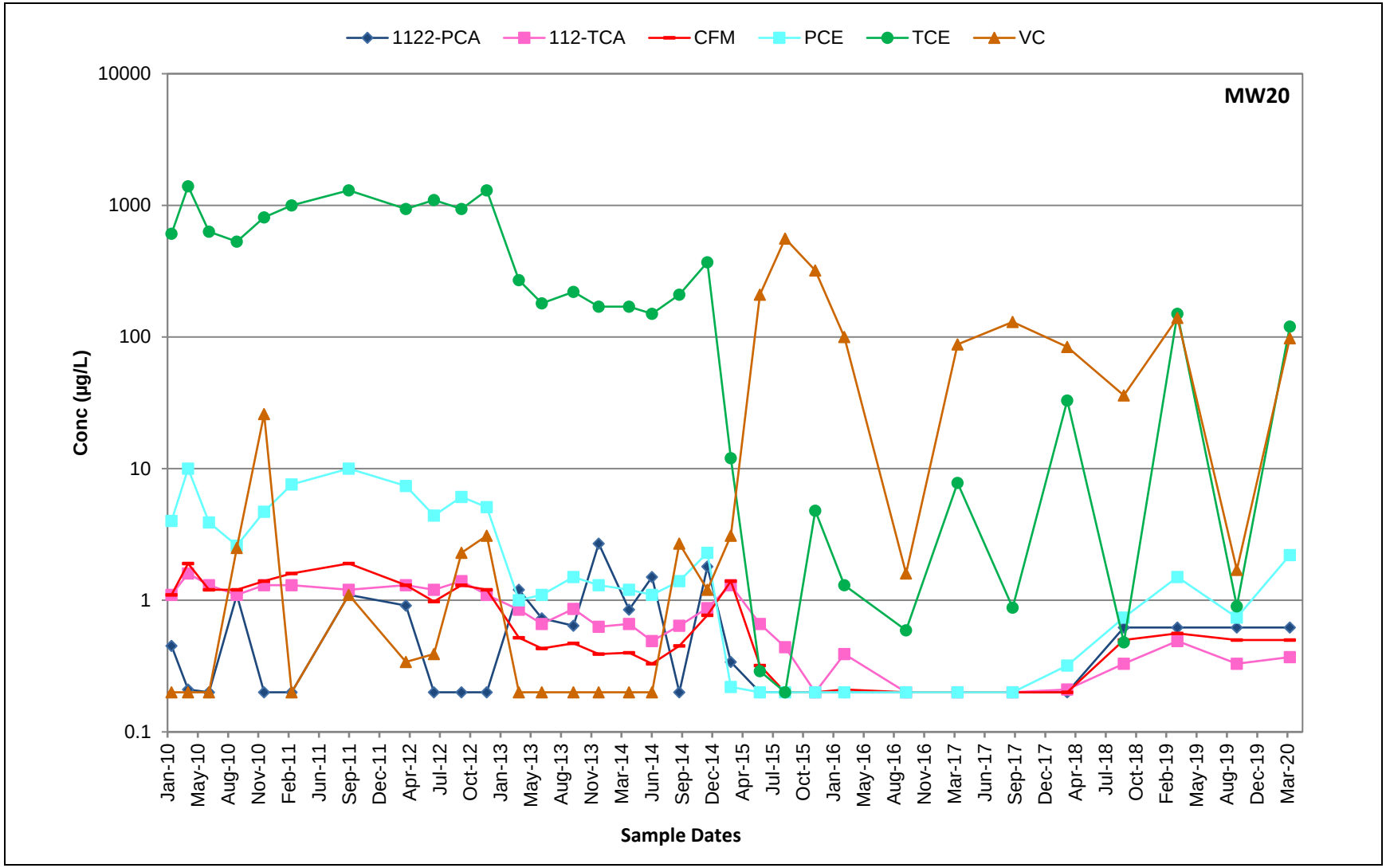
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Figure 4-12: Groundwater VOC Concentrations in
Bedrock Well CWM-183-MW16
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



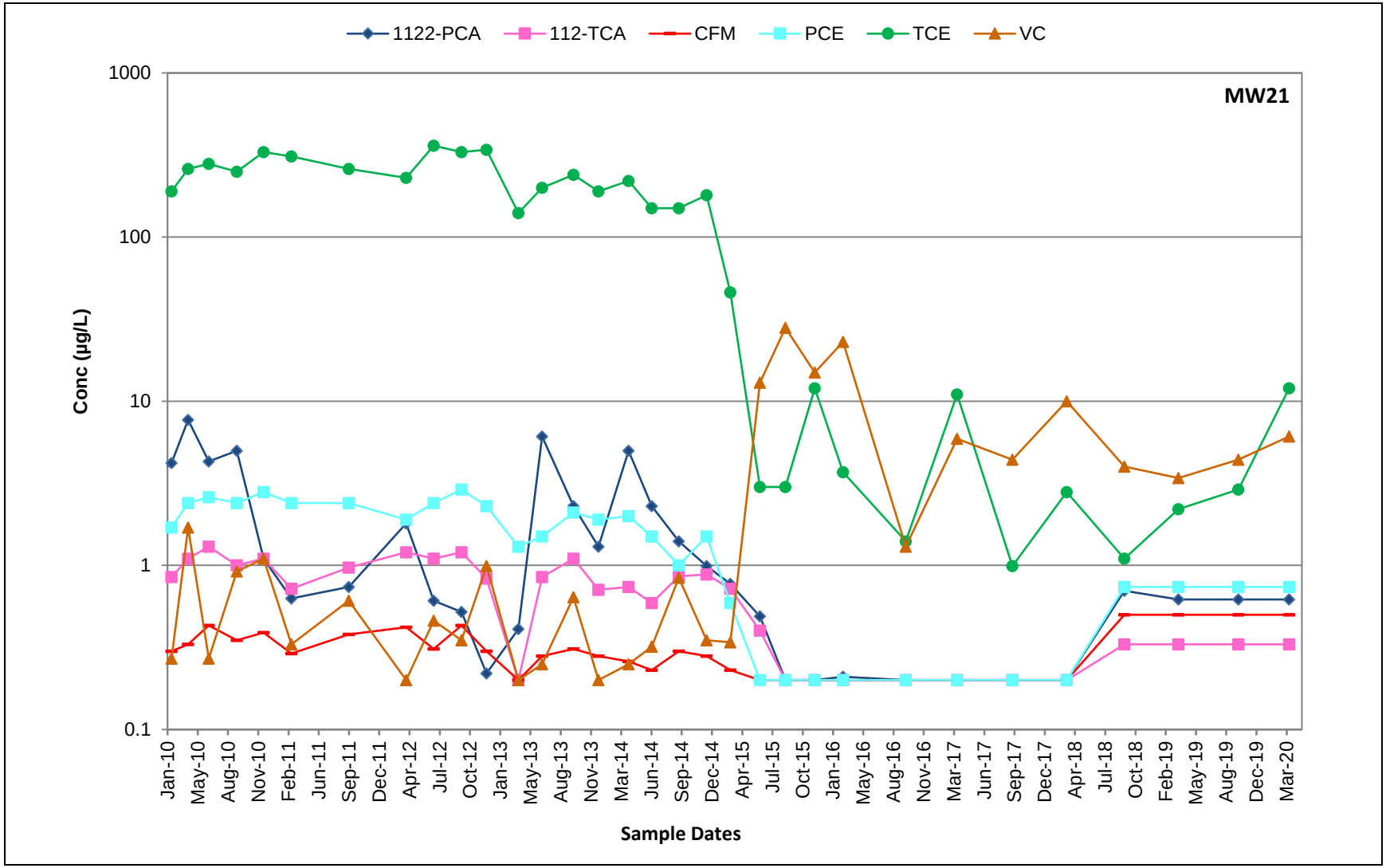
Matrix

Figure 4-13: Groundwater VOC Concentrations in
Bedrock Well CWM-183-MW19
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



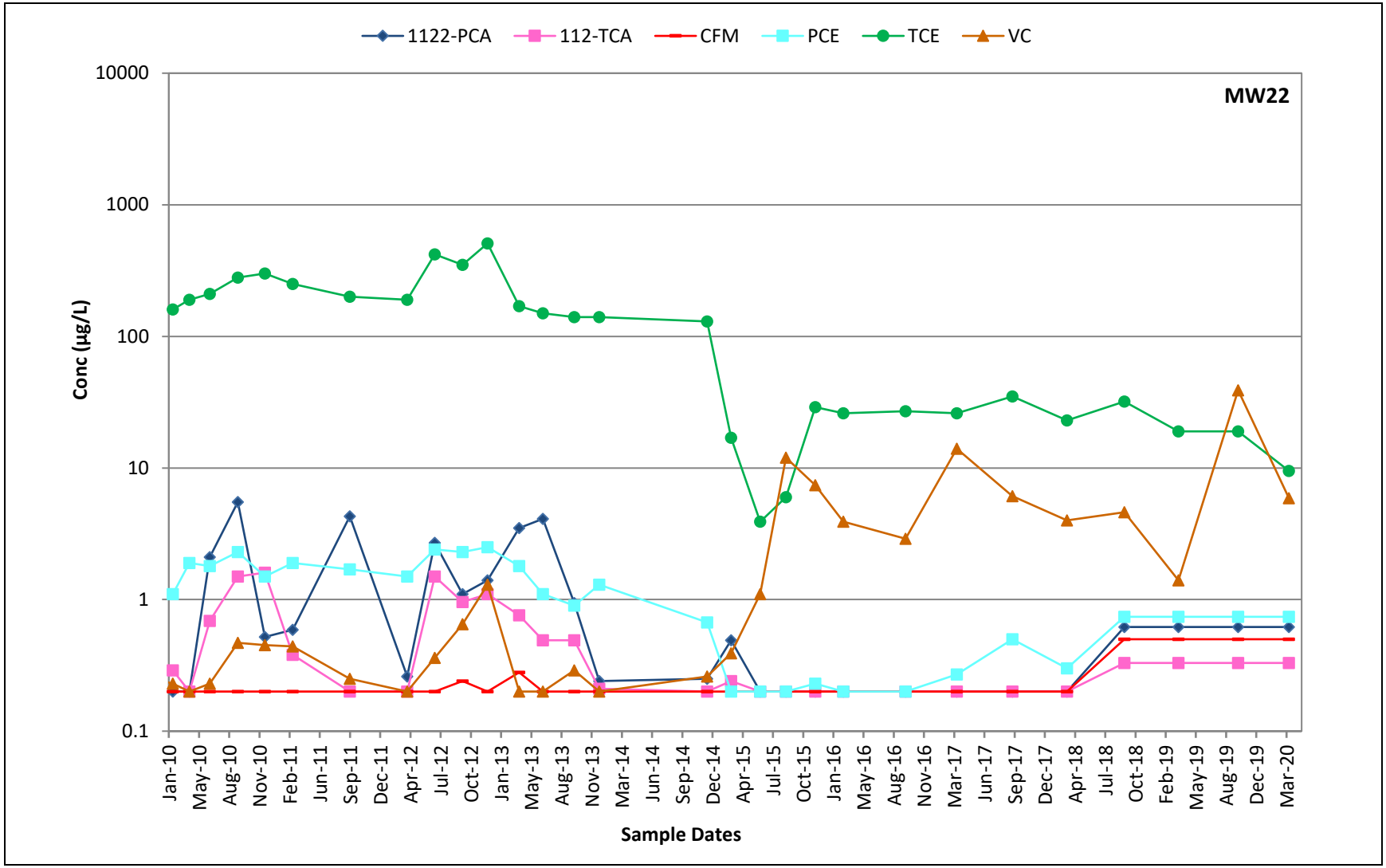
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Figure 4-14: Groundwater VOC Concentrations in
Bedrock Well CWM-183-MW20
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



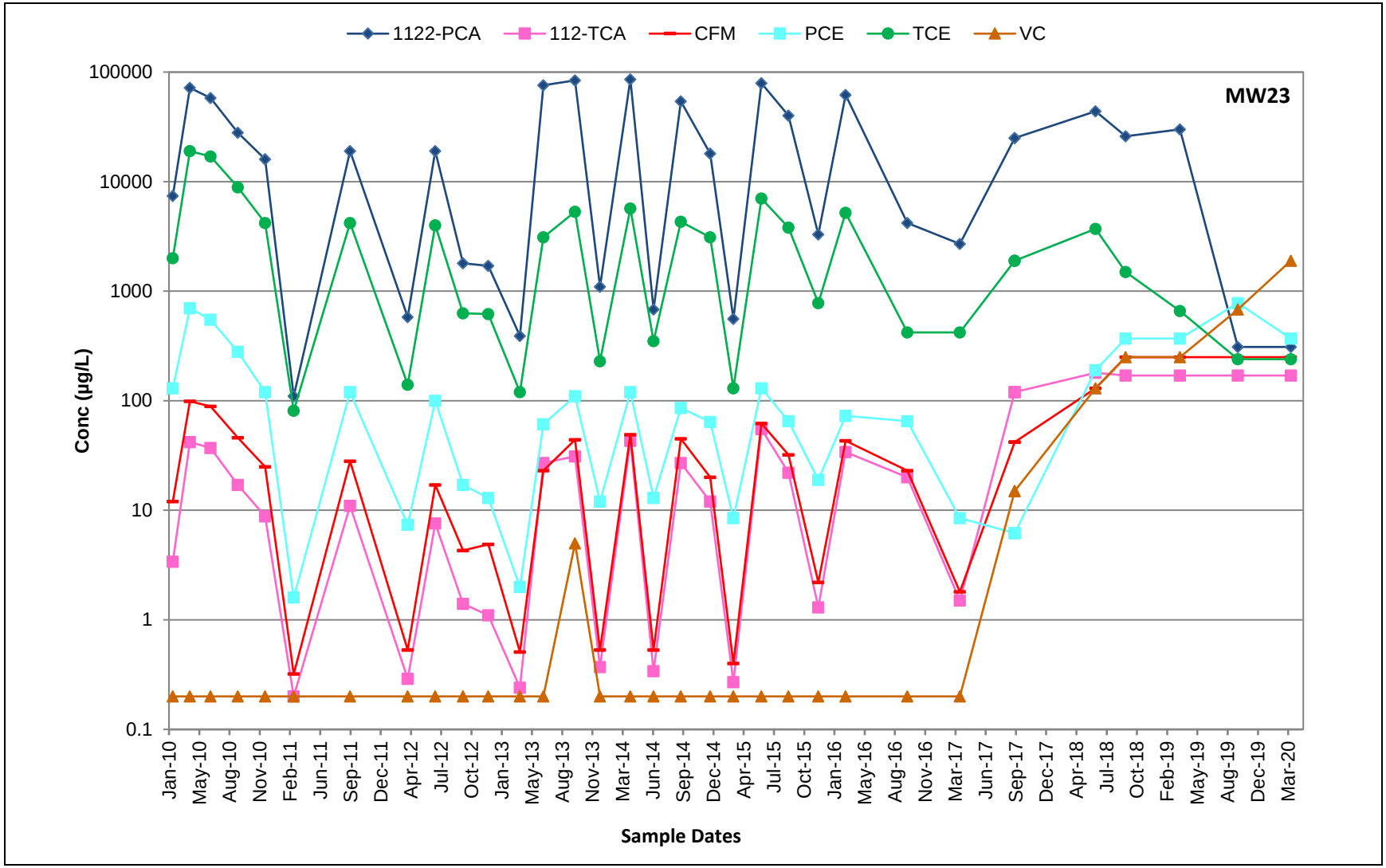
Matrix

Figure 4-15: Groundwater VOC Concentrations in
Residuum Well CWM-183-MW21
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



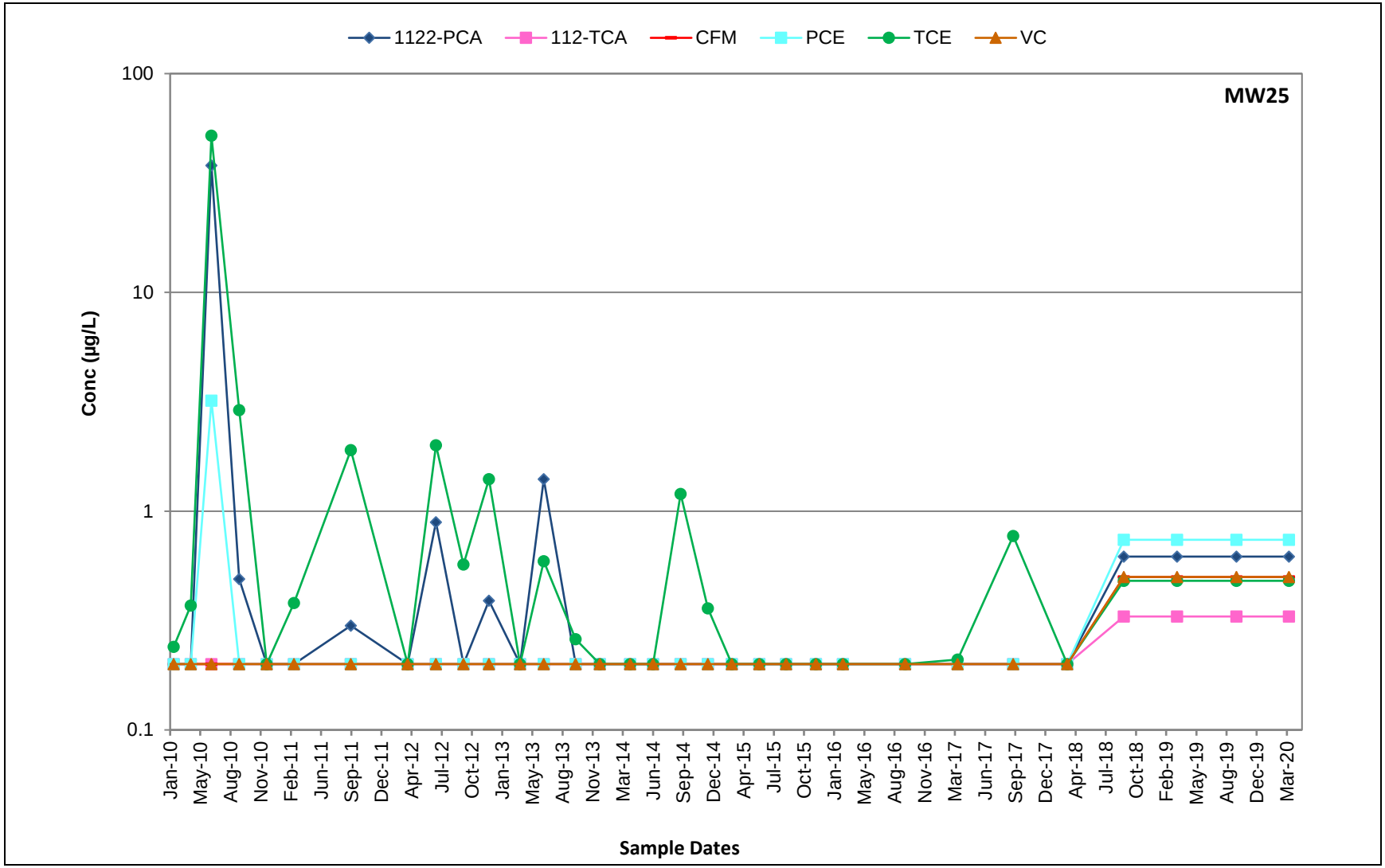
Matrix

Figure 4-16: Groundwater VOC Concentrations in
Bedrock Well CWM-183-MW22
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama



Matrix

Figure 4-17: Groundwater VOC Concentrations in Residuum Well CWM-183-MW23 Training Area T-6, Parcel 183(6) and Cane Creek Training Area, Parcel 501(7) McClellan, Anniston, Alabama



Matrix

Figure 4-18: Groundwater VOC Concentrations in
Residuum Well CWM-183-MW25
Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 501(7)
McClellan, Anniston, Alabama

1,1,2,2 - PCA

PCE

TCE

DERBY ST

FOX RD

CC-510-MW01
CC-510-MW03
CC-510-MW02
CC-510-MW04
CWM-183-MW18
CWM-183-MW19
CWM-183-MW03
CWM-183-MW24
CWM-183-MW27
CWM-183-MW14
CWM-183-MW26
CWM-183-MW05
CWM-183-MW29
CWM-183-MW10
CWM-183-MW12
CWM-183-MW01
CWM-183-MW02
CWM-183-MW07

1,1,2,2 - PCA:
CWM-183-MW25 < 1.0 µg/L
CWM-183-MW08 <1.0 µg/L
CWM-183-MW09 <1.0 µg/L
CWM-183-MW21 <1.0 µg/L
CWM-183-MW15 <1.0 µg/L
CWM-183-MW06 <1.0 µg/L
CWM-183-MW04 <1.0 µg/L
CWM-183-MW23 **<500 µg/L**

PCE:
CWM-183-MW25 < 1.0 µg/L
CWM-183-MW08 <1.0 µg/L
CWM-183-MW09 <1.0 µg/L
CWM-183-MW21 <1.0 µg/L
CWM-183-MW15 <1.0 µg/L
CWM-183-MW06 < 1.0 µg/L
CWM-183-MW04 1.8
CWM-183-MW23 **780**

TCE:
CWM-183-MW25 <1.0 µg/L
CWM-183-MW08 <1.0 µg/L
CWM-183-MW09 <1.0 µg/L
CWM-183-MW21 2.9 µg/L
CWM-183-MW15 1.8 µg/L
CWM-183-MW06 <1.0 µg/L
CWM-183-MW04 1 µg/L
CWM-183-MW23 **<500 µg/L**

0 125 250 Feet

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Legend

- Long-Term Residuum Monitoring Well
- Residuum Well Location
- Bedrock Well Location
- Parcel
- Stream
- Road
- Railroad
- Building
- Index Contour (10')
- Intermediate Contour (1')

COC = Constituents of Concern
GS = Groundskeeper
µg/L = Micrograms per liter
RBTL = Risk-Based Target Level
1,1,2,2-PCA = 1,1,2,2-Tetrachloroethane
PCE = Tetrachloroethene
TCE = Trichloroethene

COC	GS RBTL (µg/L)
1,1,2,2-Tetrachloroethane	13.6
Tetrachloroethene	4.43
Trichloroethene	205

- 1,1,2,2-PCA > GS RBTL
- PCE > GS RBTL
- TCE > GS RBTL

Fort McClellan Boundary

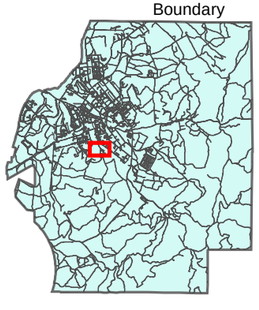


Figure 4-19
Estimated Lateral Extent of Corrective Action COC Concentrations in Residuum LTM Wells Exceeding Groundwater RBTLs, September 2019
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

1,1,2,2 - PCA

PCE

TCE

DERBY ST

FOX RD.

CC-510-MW01
CC-510-MW02
CC-510-MW03
CC-510-MW04
CWM-183-MW01
CWM-183-MW02
CWM-183-MW03
CWM-183-MW04
CWM-183-MW05
CWM-183-MW06
CWM-183-MW07
CWM-183-MW08
CWM-183-MW09
CWM-183-MW10
CWM-183-MW11
CWM-183-MW12
CWM-183-MW13
CWM-183-MW14
CWM-183-MW15
CWM-183-MW16
CWM-183-MW17
CWM-183-MW18
CWM-183-MW19
CWM-183-MW20
CWM-183-MW21
CWM-183-MW22
CWM-183-MW23
CWM-183-MW24
CWM-183-MW25
CWM-183-MW26
CWM-183-MW27
CWM-183-MW28
CWM-183-MW29
CWM-183-MW31

	1,1,2,2 - PCA	PCE	TCE
CWM-183-MW19	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L
CWM-183-MW31	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L
CWM-183-MW17	< 1.0 µg/L	< 1.0 µg/L	3.8 µg/L
CWM-183-MW20	< 1.0 µg/L	< 1.0 µg/L	0.90 J µg/L
CWM-183-MW28	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L
CWM-183-MW16	< 1.0 µg/L	< 1.0 µg/L	16 µg/L
CWM-183-MW22	< 1.0 µg/L	< 1.0 µg/L	19 µg/L
CWM-183-MW13	< 5 µg/L	7.2 B	38 µg/L

0 125 250 Feet

Legend

- Long-Term Bedrock Monitoring Well
- Residuum Well Location
- Bedrock Well Location
- Parcel
- Stream
- Road
- Railroad
- Building
- Index Contour (10 foot)
- Intermediate Contour (1 foot)

COC = Constituents of Concern
GS = Groundskeeper
µg/L = Micrograms per liter
RBTL = Risk-Based Target Level
1,1,2,2-PCA = 1,1,2,2-Tetrachloroethane
PCE = Tetrachloroethene
TCE = Trichloroethene

COC	GS RBTL (µg/L)
1,1,2,2-Tetrachloroethane	13.6
Tetrachloroethene	4.43
Trichloroethene	205

1,1,2,2-PCA > GS RBTL

PCE > GS RBTL

TCE > GS RBTL

Fort McClellan Boundary

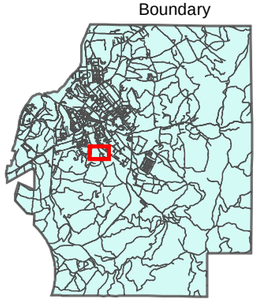


Figure 4-20
Estimated Lateral Extent of Corrective Action COC Concentrations in Bedrock LTM Wells Exceeding Groundwater RBTLs, September 2019
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

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1,1,2,2 - PCA

PCE

TCE

DERBY ST

FOX RD

CC-510-MW01
CC-510-MW02
CC-510-MW03
CC-510-MW04
CWM-183-MW01
CWM-183-MW02
CWM-183-MW03
CWM-183-MW04
CWM-183-MW05
CWM-183-MW06
CWM-183-MW07
CWM-183-MW08
CWM-183-MW09
CWM-183-MW10
CWM-183-MW12
CWM-183-MW14
CWM-183-MW15
CWM-183-MW18
CWM-183-MW19
CWM-183-MW21
CWM-183-MW23
CWM-183-MW24
CWM-183-MW25
CWM-183-MW26
CWM-183-MW27
CWM-183-MW29

1,1,2,2-PCA

CWM-183-MW25 < 1.0 µg/L
CWM-183-MW08 < 1.0 µg/L
CWM-183-MW09 **20 µg/L**
CWM-183-MW21 < 1.0 µg/L
CWM-183-MW07 1.3 µg/L
CWM-183-MW15 < 1.0 µg/L
CWM-183-MW06 < 1.0 µg/L
CWM-183-MW04 1.6 µg/L
CWM-183-MW23 **<500 µg/L**

PCE

CWM-183-MW25 < 1.0 µg/L
CWM-183-MW08 < 1.0 µg/L
CWM-183-MW09 < 1.0 µg/L
CWM-183-MW21 < 1.0 µg/L
CWM-183-MW07 < 1.0 µg/L
CWM-183-MW15 < 1.0 µg/L
CWM-183-MW06 < 1.0 µg/L
CWM-183-MW04 < 1.0 µg/L
CWM-183-MW23 **500 µg/L**

TCE

CWM-183-MW25 < 1.0 µg/L
CWM-183-MW08 3.8 µg/L
CWM-183-MW09 3.4 µg/L
CWM-183-MW21 12 µg/L
CWM-183-MW07 5.6 µg/L
CWM-183-MW15 0.8 J µg/L
CWM-183-MW06 < 1.0 µg/L
CWM-183-MW04 1 µg/L
CWM-183-MW23 **<500 µg/L**

0 125 250 Feet

Legend

- Long-Term Residuum Monitoring Well
- Residuum Well Location
- Bedrock Well Location
- Parcel
- Stream
- Road
- Railroad
- Building
- Index Contour (10 foot)
- Intermediate Contour (1 foot)

COC = Constituents of Concern
GS = Groundskeeper
µg/L = Micrograms per liter
RBTL = Risk-Based Target Level
1,1,2,2-PCA = 1,1,2,2-Tetrachloroethane
PCE = Tetrachloroethene
TCE = Trichloroethene

COC	GS RBTL (µg/L)
1,1,2,2-Tetrachloroethane	13.6
Tetrachloroethene	4.43
Trichloroethene	205

- 1,1,2,2-PCA > GS RBTL
- PCE > GS RBTL
- TCE > GS RBTL

Fort McClellan Boundary

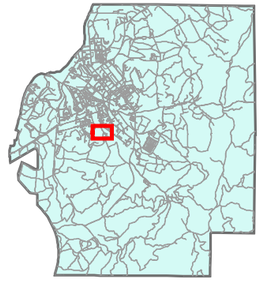


Figure 4-21
Estimated Lateral Extent of Corrective Action COC Concentrations in Residuum LTM Wells Exceeding Groundwater RBTLs, March 2020
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

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1,1,2,2 - PCA

PCE

TCE

DERBY ST

FOX RD.

CC-510-MW01
CC-510-MW02
CC-510-MW03
CC-510-MW04
CWM-183-MW01
CWM-183-MW02
CWM-183-MW03
CWM-183-MW04
CWM-183-MW05
CWM-183-MW06
CWM-183-MW07
CWM-183-MW08
CWM-183-MW09
CWM-183-MW10
CWM-183-MW11
CWM-183-MW12
CWM-183-MW13
CWM-183-MW14
CWM-183-MW15
CWM-183-MW16
CWM-183-MW17
CWM-183-MW18
CWM-183-MW19
CWM-183-MW20
CWM-183-MW21
CWM-183-MW22
CWM-183-MW23
CWM-183-MW24
CWM-183-MW25
CWM-183-MW26
CWM-183-MW27
CWM-183-MW28
CWM-183-MW29
CWM-183-MW31

	1,1,2,2-PCA	PCE	TCE
CWM-183-MW19	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L
CWM-183-MW31	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L
CWM-183-MW17	< 1.0 µg/L	< 1.0 µg/L	5 µg/L
CWM-183-MW20	< 1.0 µg/L	2.2 µg/L	120 µg/L
CWM-183-MW28	< 1.0 µg/L	< 1.0 µg/L	< 1.0 µg/L
CWM-183-MW22	< 1.0 µg/L	< 1.0 µg/L	9.5 µg/L
CWM-183-MW11	< 1.0 µg/L	< 1.0 µg/L	43 µg/L
CWM-183-MW13	7.7 µg/L	12 µg/L	850 µg/L
CWM-183-MW16	< 1.0 µg/L	< 1.0 µg/L	7.1 µg/L

0 125 250 Feet

Legend

- Long-Term Bedrock Monitoring Well
- Residuum Well Location
- Bedrock Well Location
- Parcel
- Stream
- Road
- Railroad
- Building
- Index Contour (10 foot)
- Intermediate Contour (1 foot)

COC = Constituents of Concern
GS = Groundskeeper
µg/L = Micrograms per liter
RBTL = Risk-Based Target Level
1,1,2,2-PCA = 1,1,2,2-Tetrachloroethane
PCE = Tetrachloroethene
TCE = Trichloroethene

COC	GS RBTL (µg/L)
1,1,2,2-Tetrachloroethane	13.6
Tetrachloroethene	4.43
Trichloroethene	205

1,1,2,2-PCA > GS RBTL

PCE > GS RBTL

TCE > GS RBTL

Fort McClellan Boundary

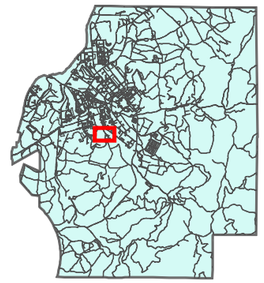


Figure 4-22
Estimated Lateral Extent of Corrective Action COC Concentrations in Bedrock LTM Wells Exceeding Groundwater RBTLs, March 2020
Training Area T-6, Parcel 183(6)
and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Matrix ENVIRONMENTAL

FILE: G:\gis_projects\Fort McClellan\03-094.007\ArcMap\mxd\TA_T6_183(6)\CMER_2020\Fig4-22_BedrockCOC_March2020.mxd 5/4/2020 Rachel Pierstorff

APPENDIX A

GROUNDWATER LEVELS

AND SAMPLE COLLECTION LOGS

Matrix Environmental Services
283 Rucker Street
Anniston, Alabama 36205
(256) 847-0780
(256) 847-0905

Project Name
McClellan

Project Number
18.094.19-11.1

GROUNDWATER LEVELS

Field Personnel	Measuring Equipment	Date
Tulley/Abernathy	Solinst Water Level Meter	September 2019 Groundwater

Conditions

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
CC-510-MW01	2"	9/23/2019	8:50	Dry	8.18	Dry	DA
CC-510-MW02	2"	9/23/2019	9:45	8.56	12.58	4.02	DA
CC-510-MW04	2"	9/23/2019	9:00	10.03	16.89	6.86	DA
CWM-183-MW01	2"	9/23/2019	9:40	33.50	51.71	18.21	DA
CWM-183-MW02	2'	9/23/2019	9:35	17.57	38.50	20.93	DA
CWM-183-MW03	2"	9/23/2019	11:00	10.71	18.11	7.40	DA
CWM-183-MW04	2"	9/23/2019	12:55	18.19	22.31	4.12	DA
CWM-183-MW05	2"	9/23/2019	9:15	12.88	13.00	0.12	DA
CWM-183-MW06	2"	9/23/2019	11:33	25.60	31.89	6.29	DA
CWM-183-MW07	2"	9/23/2019	11:05	18.43	19.35	0.92	DA
CWM-183-MW08	2"	9/23/2019	10:56	16.84	20.00	3.16	DA
CWM-183-MW09	2"	9/23/2019	11:38	27.05	27.80	0.75	DA
CWM-183-MW10	2"	9/23/2019	9:25	19.93	22.83	2.90	DA
CWM-183-MW11	2"	9/23/2019	11:25	27.25	102.00	74.75	DA
CWM-183-MW12	2"	9/23/2019	12:35	33.16	46.85	13.69	DA
CWM-183-MW13	2"	9/23/2019	12:50	20.18	57.95	37.77	DA
CWM-183-MW14	2"	9/23/2019	12:20	13.41	22.70	9.29	DA
CWM-183-MW15	2"	9/23/2019	12:35	11.64	25.45	13.81	DA
CWM-183-MW16	2"	9/23/2019	12:20	11.51	86.40	74.89	DA
CWM-183-MW17	2"	9/23/2019	9:15	10.67	46.60	35.93	DA
CWM-183-MW18	2"	9/23/2019	10:05	6.29	14.35	8.06	DA
CWM-183-MW19	2"	9/23/2019	10:00	8.62	99.56	90.94	DA
CWM-183-MW20	2"	9/23/2019	10:53	16.88	77.79	60.91	DA
CWM-183-MW21	2"	9/23/2019	10:30	30.81	41.58	10.77	DA
CWM-183-MW22	2"	9/23/2019	10:25	31.50	65.73	34.23	DA

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW03	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 10.71 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/23/2019
Well Depth (TOC) 18.02 feet	**Equipment** Geotech Bladder Pump	**Location (Site)** T-6	**Begin Time** 11:00
Water Column Thickness 7.31 feet		**Laboratory** Test America	**Sample Depth** 16.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 84	**Meters** YSI Pro Plus; Solinst Water Level Meter; Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 1.17 gallons	**Weather Conditions** Sunny	**Calibration** Field 9/23/2019	**Ferrous Iron (Fe II) (mg/L)** Not Applicable
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			
Well Elevation (TOC) 790.81 feet			
Groundwater Elevation 780.1 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** Not Applicable	**Depth to product** Not Applicable

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
11:15	0	21.20	501.5	1.64	-6.9	0.3256	145.90	6.96	Cloudy	Brown	Sulfur-like
11:20	500	21.60	502.3	0.98	6.1	0.3256	69.92	6.92	Cloudy	Clear	Sulfur-like
11:25	500	21.40	503.3	0.87	-8.7	0.3276	40.89	6.90	Cloudy	Clear	Sulfur-like
11:30	500	21.40	503.5	0.82	-26.4	0.3270	29.54	6.89	Clear	Clear	Sulfur-like
11:35	500	21.40	505.3	0.69	-90.8	0.3289	17.82	6.91	Clear	Clear	Sulfur-like
11:40	500	21.80	507.9	0.71	-115.6	0.3296	14.40	6.92	Clear	Clear	Sulfur-like
11:45	500	21.60	509.9	0.72	-132.1	0.3315	15.48	6.91	Clear	Clear	Sulfur-like
11:50	500	21.50	512.4	0.75	-137.9	0.3335	14.06	6.91	Clear	Clear	Sulfur-like
11:55	500	21.60	512.4	0.73	-143.8	0.3328	15.11	6.91	Clear	Clear	Sulfur-like
12:00	500	21.40	511.4	0.76	-141.9	0.3321	14.85	6.90	Clear	Clear	Sulfur-like
12:05	500	21.50	511.1	0.75	-140.9	0.3321	15.55	6.91	Clear	Clear	Sulfur-like
12:10	500	21.10	511	0.77	-141.3	0.3320	14.91	6.90	Clear	Clear	Sulfur-like

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
55	5500	No	12:11 collected sample suite

QA/QC Samples	Signature
N/A	Jon Tully

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW04	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 19.32 feet	**Sample Method** Low Flow	**Sampler** Abernathy	**Date** 9/26/2019
Well Depth (TOC) 22 feet		**Location (Site)** T-6	**Begin Time** 10:45
	Equipment Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 20.5
Water Column Thickness 2.68 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 85	**Meters** YSI Pro Plus Geotech Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 0.43 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/26/2019	**Ferrous Iron (Fe II) (mg/L)** Not Applicable
Well Elevation (TOC) 789.6 feet			
Groundwater Elevation 770.28 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** Not Applicable	**Depth to product** Not Applicable

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1045	0	22.80	650	1.57	-45.1	0.423	57.48	6.38	Cloudy	Clear	None
1050	200	23.30	650	1.00	-53.9	0.423	58.64	6.40	Cloudy	Clear	None
1055	200	24.20	650	0.82	-57.7	0.423	45.39	6.40	Cloudy	Clear	None
1100	200	25.00	630	0.59	-61.2	0.423	32.89	6.42	Cloudy	Clear	None
1105	200	25.10	650	0.48	-67.2	0.423	26.53	6.44	Cloudy	Clear	None
1110	200	25.30	650	0.37	-70.9	0.423	18.79	6.46	Clear	Clear	None
1115	200	25.50	650	0.32	-74.5	0.423	15.66	6.47	Clear	Clear	None
1120	200	25.80	660	0.28	-75.9	0.429	14.33	6.47	Clear	Clear	None
1125	200	25.80	660	0.26	-76.9	0.429	13.89	6.48	Clear	Clear	None
1130	200	25.40	660	0.24	-78.6	0.429	12.12	6.48	Clear	Clear	None
1135	200	25.30	650	0.22	-81.6	0.423	10.82	6.50	Clear	Clear	None
1140	200	25.30	650	0.20	-82.7	0.423	9.33	6.50	Clear	Clear	None

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
55	2200	No	11:41 Collect Sample Suite. Only 2.5' water column (well nearly dry)

QA/QC Samples	Signature
N/A	

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW06	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 25.6 feet	**Sample Method** Low Flow	**Sampler** Abernathy	**Date** 9/25/2019
Well Depth (TOC) 31.89 feet		**Location (Site)** T-6	**Begin Time** 13:00
	Equipment Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 29.0
Water Column Thickness 6.29 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 90	**Meters** YSI Pro Plus Geotech Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 1.01 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/25/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 810.92 feet			
Groundwater Elevation 785.32 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** Not Applicable	**Depth to product** Not Applicable

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1315	0	21.70	473	0.35	-51.1	0.307	36.18	6.28	Cloudy	White	None
1320	750	21.50	472	0.33	-51.5	0.307	26.86	6.29	Cloudy	White	None
1325	750	21.60	473	0.28	-53.8	0.307	22.26	6.30	Clear	Clear	None
1330	750	22.10	473	0.22	-57.3	0.308	16.33	6.31	Clear	Clear	None
1335	750	22.10	472	0.19	-58.9	0.306	15.97	6.32	Clear	Clear	None
1340	750	22.00	463	0.16	-60.9	0.300	14.89	6.30	Clear	Clear	None
1345	750	21.70	460	0.15	-61.7	0.298	13.32	6.30	Clear	Clear	None
1350	750	22.30	457	0.14	-64.3	0.297	16.08	6.29	Clear	Clear	None
1355	750	22.50	455	0.14	-67.1	0.296	21.36	6.28	Clear	Clear	None
1400	750	22.90	452	0.13	-71.2	0.293	22.49	6.27	Clear	Clear	None
1405	750	23.10	451	0.12	-72.7	0.293	22.28	6.27	Clear	Clear	None
1410	Collect Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	7500	No	

QA/QC Samples	Signature
DUP#329	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW08	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 16.85 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/25/2019
Well Depth (TOC) 19.97 feet		**Location (Site)** T-6	**Begin Time** 12:00
Water Column Thickness 3.12 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 17.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 88	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 0.50 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/25/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 798.76 feet			
Groundwater Elevation 781.91 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
12:30	0	26.40	556	3.13	-115.7	0.364	69.77	6.56	Cloudy	Brown	None
12:35	300	26.30	553	2.23	-125.9	0.3575	17.84	6.55	Clear	Clear	None
12:40	300	27.30	555	2.03	-123.3	0.364	14.86	6.56	Clear	Clear	None
12:45	300	27.60	556	3.23	-121.1	0.364	6.98	6.55	Clear	Clear	None
12:50	300	27.80	556	2.10	-122.0	0.364	5.51	6.55	Clear	Clear	None
12:55	300	27.70	556	2.14	-121.7	0.364	4.01	6.55	Clear	Clear	None
13:00	300	27.80	556	2.24	-121.6	0.364	4.84	6.55	Clear	Clear	None
13:01			Collected			Sample		Suite			

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	1800	No	

QA/QC Samples N/A

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW08	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 16.85 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/25/2019
Well Depth (TOC) 19.97 feet		**Location (Site)** T-6	**Begin Time** 12:00
Water Column Thickness 3.12 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 17.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 88	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 0.50 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/25/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 798.76 feet			
Groundwater Elevation 781.91 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
12:30	0	26.40	556	3.13	-115.7	0.364	69.77	6.56	Cloudy	Brown	None
12:35	300	26.30	553	2.23	-125.9	0.3575	17.84	6.55	Clear	Clear	None
12:40	300	27.30	555	2.03	-123.3	0.364	14.86	6.56	Clear	Clear	None
12:45	300	27.60	556	3.23	-121.1	0.364	6.98	6.55	Clear	Clear	None
12:50	300	27.80	556	2.10	-122.0	0.364	5.51	6.55	Clear	Clear	None
12:55	300	27.70	556	2.14	-121.7	0.364	4.01	6.55	Clear	Clear	None
13:00	300	27.80	556	2.24	-121.6	0.364	4.84	6.55	Clear	Clear	None
13:01			Collected	Sample			Suite				

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	1800	No	

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW13	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 20.28 feet	**Sample Method** Low Flow	**Sampler** Abernathy	**Date** 9/26/2019
Well Depth (TOC) 57.95 feet		**Location (Site)** T-6	**Begin Time** 8:40
Water Column Thickness 37.67 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 45.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 70	**Meters** YSI Pro Plus Geotech Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 6.03 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/26/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 801.81 feet			
Groundwater Elevation 781.53 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0840	0	20.90	299	2.89	-75.5	0.1943	8.30	6.80	Clear	Clear	None
0845	750	19.30	334	4.68	-85.9	0.2171	5.90	6.86	Clear	Clear	None
0850	750	19.10	334	4.42	-91.2	0.2171	4.95	6.88	Clear	Clear	None
0855	750	19.10	335	3.90	-99.3	0.2178	3.93	6.90	Clear	Clear	None
0900	750	19.20	336	3.80	-101.2	0.2184	4.27	6.90	Clear	Clear	None
0905	750	19.20	338	3.71	-102.6	0.2197	3.35	6.91	Clear	Clear	None
0910	750	19.30	339	3.61	-103.9	0.2203	3.76	6.91	Clear	Clear	None
0915	750	19.40	341	3.41	-105.7	0.2229	3.93	6.92	Clear	Clear	None
0920	750	19.30	351	3.14	-108.5	0.2294	4.23	6.93	Clear	Clear	None
0925	750	19.30	360	3.01	-111.8	0.2334	3.96	6.94	Clear	Clear	None
0930	750	19.40	362	2.91	-112.5	0.2353	4.08	6.95	Clear	Clear	None
0935	Collect Sample Sutie										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	7500	No	

QA/QC Samples	Signature
MS/MSD	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW15	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 11.64 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/23/2019
Well Depth (TOC) 25.45 feet		**Location (Site)** T-6	**Begin Time** 12:35
Water Column Thickness 13.81 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 18.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 90	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 2.21 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** sunny	**Calibration** Field 9/23/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 793.21 feet			
Groundwater Elevation 781.57 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
12:45	0	24.00	372.7	1.98	-133.1	0.2418	25.47	7.44	Clear	Clear	None
12:50	500	23.80	372.3	0.37	-135.8	0.2418	24.02	7.47	Clear	Clear	None
12:55	500	23.90	372.1	0.31	-128.8	0.2424	25.77	7.47	Clear	Clear	None
13:00	500	24.00	372.5	0.31	-88.7	0.2418	28.84	7.46	Clear	Clear	None
13:05	500	23.70	373.1	0.28	-122.1	0.2424	24.09	7.47	Clear	Clear	None
13:10	500	23.70	372.8	0.24	-123.6	0.2431	12.42	7.47	Clear	Clear	None
13:15	500	23.70	372.5	0.25	-119.6	0.2418	9.81	7.47	Clear	Clear	None
13:20	500	23.70	372.3	0.24	-115.1	0.2424	9.95	7.47	Clear	Clear	None
13:25	500	23.60	372.6	0.22	-112.8	0.2418	7.01	7.47	Clear	Clear	None
13:30	500	23.70	373.2	0.25	-114.4	0.2424	7.45	7.47	Clear	Clear	None
13:35	500	23.80	372.9	0.24	-115.1	0.2424	7.86	7.47	Clear	Clear	None
13:36	—	—	Collected Sample Suite						—		

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	5000	No	

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW16	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 11.51 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/24/2019
Well Depth (TOC) 84 feet		**Location (Site)** T-6	**Begin Time** 12:30
	Equipment Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 78.0
Water Column Thickness 72.49 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 89	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 11.60 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/24/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 793.13 feet			
Groundwater Elevation 781.62 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
13:00	0	24.10	348.1	5.82	-133.6	0.2256	13.85	7.64	Clear	Clear	None
13:05	300	24.50	348.3	2.42	-156.7	0.2256	9.81	7.54	Clear	Clear	None
13:10	300	24.40	344.5	2.27	-144.9	0.2269	7.99	7.53	Clear	Clear	None
13:15	300	24.10	332.1	1.91	-148.3	0.2243	5.81	7.51	Clear	Clear	None
13:20	300	24.60	348.5	1.79	-152.8	0.2269	5.02	7.49	Clear	Clear	None
13:30	300	24.50	348.4	1.77	-153.4	0.2262	5.41	7.51	Clear	Clear	None
13:35	300	23.40	347.4	1.81	-149.5	0.2256	5.09	7.48	Clear	Clear	None
13:40	300	23.60	347.1	2.42	-130.2	0.2256	4.99	7.51	Clear	Clear	None
13:45	300	23.70	347	2.45	-130.3	0.2256	5.76	7.52	Clear	Clear	None
13:50	300	23.70	346.9	2.40	-130.9	0.2256	5.00	7.51	Clear	Clear	None
13:51			Collecting Sample Suite								

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	2700	No	

QA/QC Samples

Signature

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW17	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 10.67 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/23/2019
Well Depth (TOC) 46.6 feet		**Location (Site)** T-6	**Begin Time** 9:15
Water Column Thickness 35.93 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 42.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 75	**Meters** YSI Pro Plus; Solinst Water Level Meter; Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 5.75 gallons	**Weather Conditions** Sunny	**Calibration** Field 9/23/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			
Well Elevation (TOC) 790.78 feet			
Groundwater Elevation 780.11 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:50	0	20.10	502.1	4.88	-77.9	0.3263	11.44	8.08	Clear	Clear	None
9:55	500	19.90	502.5	1.09	-192.3	0.327	10.10	8.22	Clear	Clear	None
10:00	500	19.90	502.3	0.68	-199.7	0.327	9.52	8.23	Clear	Clear	None
10:05	500	19.90	502.5	0.55	-202.3	0.3263	7.44	8.23	Clear	Clear	None
10:10	500	19.60	502.1	0.25	-210.0	0.3263	7.95	8.23	Clear	Clear	None
10:15	500	19.70	502.2	0.24	-211.2	0.327	7.09	8.24	Clear	Clear	None
10:20	500	19.70	501.9	0.21	-209.9	0.327	7.21	8.24	Clear	Clear	None
10:21	Collected Sample Suite										

9-23-19

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	3000	No	

QA/QC Samples	Signature
N/A	

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW19	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 18.65 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/25/2019
Well Depth (TOC) 99.56 feet		**Location (Site)** T-6	**Begin Time** 8:30
Water Column Thickness 80.91 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 90.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 71	**Meters** YSI 556 MPS; Solinst Water Level Meter; Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 12.95 gallons	**Weather Conditions** sunny	**Calibration** Field 9/25/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			
Well Elevation (TOC) 787.06 feet			
Groundwater Elevation 768.41 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:00	0	20.00	414.4	7.85	-86.1	0.2691	13.62	7.49	Clear	Clear	None
9:05	500	20.10	414.1	5.31	-71.1	0.2691	2.86	7.51	Clear	Clear	None
9:10	500	20.40	414.5	5.02	-71.7	0.2698	2.01	7.52	Clear	Clear	None
9:15	500	21.20	414.4	3.73	-71.1	0.2698	1.44	7.54	Clear	Clear	None
9:20	500	20.60	414.7	4.22	-119.9	0.2691	1.99	7.53	Clear	Clear	None
9:25	500	20.20	414	4.80	-120.6	0.2698	1.01	7.52	Clear	Clear	None
9:30	500	20.70	415.1	1.91	-120.9	0.2691	0.98	7.56	Clear	Clear	None
9:35	500	20.40	411.5	1.33	-115.3	0.2698	1.11	7.54	Clear	Clear	None
9:40	500	20.40	414.8	3.24	-111.8	0.2691	0.86	7.52	Clear	Clear	None
9:45	500	21.30	414.9	3.55	-111.9	0.2698	1.19	7.54	Clear	Clear	None
9:50	500	21.40	415.1	3.17	-112.1	0.2698	0.99	7.54	Clear	Clear	None
9:51			Collected Sample Suite								

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	5000	No	

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW20	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 16.89 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/25/2019
Well Depth (TOC) 77.8 feet		**Location (Site)** T-6	**Begin Time** 10:30
Water Column Thickness 60.91 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 72.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 81	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 9.75 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/25/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 798.81 feet			
Groundwater Elevation 781.92 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
10:45	0	28.30	428.7	4.83	-95.3	0.2782	47.56	7.58	Cloudy	Clear	None
10:50	300	24.90	428.3	2.16	-141.5	0.2782	62.74	7.43	Cloudy	Clear	None
10:55	300	23.80	419.8	1.83	-172.1	0.273	65.65	7.39	Cloudy	Clear	None
11:00	300	24.60	415.1	1.37	-174.2	0.2698	58.09	7.41	Cloudy	Clear	None
11:05	300	24.70	413.5	1.33	-169.9	0.2685	50.09	7.41	Cloudy	Clear	None
11:10	300	24.50	412.2	1.48	-170.6	0.2685	48.98	7.40	Cloudy	Clear	None
11:15	300	24.00	409.2	1.36	-167.2	0.2659	23.42	7.39	Clear	Clear	None
11:20	300	23.70	403.9	1.35	-158.4	0.2633	17.51	7.39	Clear	Clear	None
11:25	300	24.70	402.9	1.28	-161.2	0.2632	16.83	7.40	Clear	Clear	None
11:30	300	24.90	402.5	1.32	-161.5	0.2631	17.01	7.41	Clear	Clear	None
11:31			Collecting Sample Suite								

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
45	2700	No	

QA/QC Samples	Signature
N/A	

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW21	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 31.07 feet	**Sample Method** Low Flow	**Sampler** Abernathy	**Date** 10/2/2019
Well Depth (TOC) 41.58 feet		**Location (Site)** T-6	**Begin Time** 10:45
	Equipment Geotech Bladder Pump	**Laboratory** Test America	**sample depth** 35.0
Water Column Thickness 10.51 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 86	**Meters** YSI Pro Plus geotech water level meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 1.68 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** sunny	**Calibration** Field 10/2/2019	**Ferrous Iron (Fe II) (mg/L)** Not Applicable
Well Elevation (TOC) 813.92 feet			
Groundwater Elevation 782.85 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1045	0	21.10	359.6	2.57	-120.6	0.234	67.82	7.21	Cloudy	Clear	None
1050	750	20.20	359.0	2.22	-125.6	0.2346	44.86	7.21	Cloudy	Clear	None
1055	750	19.90	357.7	2.00	-133.0	0.2334	33.90	7.22	Cloudy	Clear	None
1100	750	19.80	359.9	1.64	-135.3	0.2334	29.24	7.23	Cloudy	Clear	None
1105	750	19.20	361.2	1.45	-136.2	0.2353	27.03	7.24	Cloudy	Clear	None
1110	750	19.70	362.2	1.37	-138.4	0.2353	21.79	7.25	Clear	Clear	None
1115	750	19.90	363.7	1.15	-140.6	0.2353	22.50	7.25	Clear	Clear	None
1120	750	20.00	362.0	1.04	-143.1	0.236	21.03	7.25	Clear	Clear	None
1125	750	20.00	363.0	1.06	-141.4	0.236	19.62	7.25	Clear	Clear	None
1130	750	20.10	363.2	1.02	-141.0	0.236	18.76	7.25	Clear	Clear	None
1135	Collect Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	6750	No	oily residue in well

QA/QC Samples N/A

Signature

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW22	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 31.78 feet	**Sample Method** Low Flow	**Sampler** abernathy	**Date** 10/2/2019
Well Depth (TOC) 65.71 feet	**Equipment** Geotech Bladder Pump	**Location (Site)** T-6	**Begin Time** 0:00
Water Column Thickness 33.93 feet		**Laboratory** Test America	**Sample Depth** 58.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 81	**Meters** ysi pro plus Geotech Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 5.43 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** sunny	**Calibration** Field 10/2/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 814.59 feet			
Groundwater Elevation 782.81 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0930	0	24.70	317	3.29	-88.1	0.2119	10.80	7.21	Clear	Clear	None
0935	750	22.60	331	1.56	-108.6	0.2158	12.11	7.27	Clear	Clear	None
0940	750	22.40	330.3	0.62	-117.9	0.2145	9.57	7.29	Clear	Clear	None
0945	750	22.40	330.1	0.51	-120.2	0.2145	8.54	7.29	Clear	Clear	None
0950	750	22.50	329.2	0.46	-122.6	0.2139	7.59	7.30	Clear	Clear	None
0955	750	22.70	328.8	0.42	-124.0	0.2139	8.35	7.30	Clear	Clear	None
1000	750	23.10	328.6	0.39	-127.6	0.2139	8.50	7.30	Clear	Clear	None
1005	750	22.90	328.1	0.36	-129.0	0.2132	7.39	7.30	clear	Clear	None
1010	750	23.00	328.7	0.35	-129.5	0.2139	6.64	7.30	Clear	Clear	None
1015	750	23.10	329	0.33	-131.5	0.2139	6.26	7.31	Clear	Clear	None
1020	Collect Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
	6750	No	

QA/QC Samples
DUP#331

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW23	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 32.73 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/26/2019
Well Depth (TOC) 50.5 feet		**Location (Site)** T-6	**Begin Time** 8:30
Water Column Thickness 17.77 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 40.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 78	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 2.84 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/26/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 822.28 feet			
Groundwater Elevation 789.55 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:10	0	18.80	1056	2.03	-109.4	0.689	28.83	6.41	Clear	Clear	None
9:15	600	18.60	1050	2.01	-109.5	0.6825	26.73	6.45	Clear	Clear	None
9:20	600	19.70	1051	2.09	-102.4	0.6825	24.98	6.52	Clear	Clear	None
9:25	600	19.90	1046	1.85	-99.8	0.676	20.11	6.53	Clear	Clear	None
9:30	600	19.90	1044	1.82	-99.3	0.676	21.67	6.53	Clear	Clear	None
9:35	600	20.30	1036	1.61	-99.0	0.676	19.41	6.55	Clear	Clear	None
9:40	600	20.50	1027	1.46	-98.4	0.663	20.01	6.57	Clear	Clear	None
9:45	600	20.60	1025	1.39	-99.1	0.663	20.43	6.58	Clear	Clear	None
9:50	600	20.60	1024	1.37	-99.3	0.663	19.86	6.58	Clear	Clear	None
9:51		Collected Sample Suite									

9.26.19

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
40	4800	No	

QA/QC Samples	Signature
N/A	

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW25	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 16.41 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/25/2019
Well Depth (TOC) 26.45 feet		**Location (Site)** T-6	**Begin Time** 13:30
Water Column Thickness 10.04 feet	**Equipment** YSI 556 MPS, Geocontrol Pro, Water Level Meter	**Laboratory** Test America	**Sample Depth** 19.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 90	**Meters** YSI 556 MPS; Solinst Water Level Meter; Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 1.61 gallons	**Weather Conditions** Sunny	**Calibration** Field 9/25/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			
Well Elevation (TOC) 798.08 feet			
Groundwater Elevation 781.67 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
14:05	0	22.70	146.7	2.41	84.6	0.0942	86.42	5.81	Cloudy	Brown	None
14:10	500	23.20	135.3	2.60	95.8	0.0878	80.87	5.68	Cloudy	Brown	None
14:15	500	23.10	135.6	2.53	99.5	0.0871	71.43	5.67	Cloudy	Clear	None
14:20	500	22.80	148.2	1.54	91.8	0.0975	45.90	5.66	Cloudy	Clear	None
14:25	500	22.70	149.7	1.53	89.9	0.0988	31.11	5.67	Clear	Clear	None
14:30	500	22.40	154.9	1.46	86.4	0.1008	29.05	5.68	Clear	Clear	None
14:35	500	22.40	162.2	1.37	78.6	0.1066	24.99	5.70	Clear	Clear	None
14:40	500	22.50	170.7	1.21	71.9	0.1124	23.09	5.73	Clear	Clear	None
14:45	500	22.40	182.7	1.14	61.8	0.1203	25.74	5.81	Clear	Clear	None
14:50	500	23.20	198.8	1.05	48.4	0.1313	23.67	5.91	Clear	Clear	None
14:55	500	21.60	216.8	0.99	42.0	0.1404	23.13	5.89	Clear	Clear	None
15:00	500	21.40	224.5	0.87	46.1	0.1475	23.45	5.86	Clear	Clear	None

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
90	9000	No	see page 2

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780
(256) 847-0905

Station Name/Sample ID: CWM-183-MW25

Project: McClellan

Date: 9/25/2019

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
15:05	500	21.5	236.5	0.9	38.7	0.1547	23.02	5.98	Clear	Clear	None
15:10	500	22.2	252	0.74	32.1	0.1651	22.98	6.03	Clear	Clear	None
15:15	500	22.6	258.3	0.74	29.1	0.169	22.57	6.07	Clear	Clear	None
15:20	500	22.4	268.1	0.72	27.7	0.1742	22.08	6.06	Clear	Clear	None
15:25	500	23.3	274.5	0.77	23.4	0.1781	21.69	6.11	Clear	Clear	None
15:30	500	23.2	274.9	0.71	22.9	0.1794	20.72	6.1	Clear	Clear	None
15:35	500	23.2	275.3	0.8	23.2	0.1794	20.57	6.11	Clear	Clear	None
15:36	Collect Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
90	9000	No	

QA/QC Samples
N/A

Signature

Rev 3/3/08

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW28	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 20.67 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/24/2019
Well Depth (TOC) 200.5 feet		**Location (Site)** T-6	**Begin Time** 10:30
Water Column Thickness 179.83 feet	**Equipment** Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 190.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 84	**Meters** YSI Pro Plus; Solinst Water Level Meter; Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 28.77 gallons	**Weather Conditions** Sunny	**Calibration** Field 9/24/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4			
Well Elevation (TOC) 802.34 feet			
Groundwater Elevation 781.67 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
11:00	0	23.10	379.9	4.31	-199.4	0.2464	26.08	8.18	Clear	Clear	None
11:05	750	23.00	375.3	5.60	-191.7	0.2431	45.46	8.43	Cloudy	Clear	None
11:10	750	20.60	371.3	4.88	-189.8	0.2418	30.44	8.56	Cloudy	Clear	None
11:15	750	20.70	372.1	3.13	-223.4	0.2412	19.29	8.69	Clear	Clear	None
11:20	750	20.10	373	1.11	-244.7	0.2424	16.21	8.76	Clear	Clear	None
11:25	750	20.20	372.9	0.77	-244.5	0.2424	17.43	8.75	Clear	Clear	None
11:30	750	20.00	373.1	0.65	-244.8	0.2424	16.86	8.74	Clear	Clear	None
11:35	750	19.90	373.5	0.63	-244.8	0.2424	16.01	8.73	Clear	Clear	None
11:36			Collected Sample Suite								

9.24.19

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
35	5250	No	very small, black flakes in sample

QA/QC Samples	Signature
Dup #330	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW31	
Project	**Project Number**
McClellan	18.094.19-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 8.55 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 9/24/2019
Well Depth (TOC) 204.8 feet		**Location (Site)** T-6	**Begin Time** 8:30
	Equipment Geotech Bladder Pump	**Laboratory** Test America	**Sample Depth** 198.0
Water Column Thickness 196.25 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 77	**Meters** YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol Pro	**Serial numbers**
Casing Volume 31.40 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 9/24/2019	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 789.22 feet			
Groundwater Elevation 780.67 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:15	750	20.90	391.9	7.51	-186.7	0.2542	4.04	7.95	Clear	Clear	None
9:20	750	20.80	387.7	2.08	-214.5	0.2529	3.98	8.08	Clear	Clear	None
9:25	750	20.60	387.1	1.85	-215.7	0.2516	1.93	8.05	Clear	Clear	None
9:30	750	20.40	389.4	1.21	-220.4	0.2529	2.06	8.10	Clear	Clear	None
9:35	750	20.50	388.7	1.05	-226.6	0.2522	1.09	8.11	Clear	Clear	None
9:40	750	20.40	389.2	0.97	-227.1	0.2522	1.11	8.12	Clear	Clear	None
9:45	750	20.50	389.9	0.90	-227.8	0.2529	0.98	8.12	Clear	Clear	None
9:50	750	20.30	389.5	0.88	-228.1	0.2529	0.76	8.12	Clear	Clear	None
9:55	750	20.30	389.2	0.84	-228.4	0.2529	0.71	8.12	Clear	Clear	None
9:56			Collected Sample Suite								

9-24-19

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
40	6750	No	

QA/QC Samples	Signature
N/A	

Matrix Environmental Services
283 Rucker Street
Anniston, Alabama 36205
(256) 847-0780
(256) 847-0905

Project Name
McClellan

Project Number
19.094.20-11.1

GROUNDWATER LEVELS

Field Personnel	Measuring Equipment	Date
Tulley/Abernathy	Solinst Water Level Meter	03/16/2020

Conditions

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
CC-510-MW01	2"	3/16/2020	14:45	5.14	8.18	3.04	DA
CC-510-MW02	2"	3/16/2020	14:43	5.61	12.58	6.97	DA
CC-510-MW04	2"	3/16/2020	14:40	8.62	16.89	8.27	DA
CWM-183-MW01	2"	3/16/2020	15:44	6.90	51.71	44.81	DA
CWM-183-MW02	2'	3/16/2020	14:30	0.19	38.50	38.31	DA
CWM-183-MW03	2"	3/16/2020	14:48	2.97	18.11	15.14	DA
CWM-183-MW04	2"	3/16/2020	15:03	15.01	22.31	7.30	DA
CWM-183-MW05	2"	3/16/2020	14:40	9.61	13.00	3.39	DA
CWM-183-MW06	2"	3/16/2020	15:38	3.23	31.89	28.66	DA
CWM-183-MW07	2"	3/16/2020	15:07	8.43	19.35	10.92	DA
CWM-183-MW08	2"	3/16/2020	15:10	4.71	20.00	15.29	DA
CWM-183-MW09	2"	3/16/2020	15:52	8.99	27.80	18.81	DA
CWM-183-MW10	2"	3/16/2020	14:30	10.03	22.83	12.80	DA
CWM-183-MW11	2"	3/16/2020	15:27	21.85	102.00	80.15	DA
CWM-183-MW12	2"	3/16/2020	15:18	22.49	46.85	24.36	DA
CWM-183-MW13	2"	3/16/2020	15:07	16.96	57.95	40.99	DA
CWM-183-MW14	2"	3/16/2020	14:44	11.12	22.70	11.58	DA
CWM-183-MW15	2"	3/16/2020	14:50	7.90	25.45	17.55	DA
CWM-183-MW16	2"	3/16/2020	14:47	8.15	86.40	78.25	DA
CWM-183-MW17	2"	3/16/2020	14:59	6.71	46.60	39.89	DA
CWM-183-MW18	2"	3/16/2020	15:52	0.45	14.35	13.90	DA
CWM-183-MW19	2"	3/16/2020	15:56	4.73	99.56	94.83	DA
CWM-183-MW20	2"	3/16/2020	14:51	11.07	77.79	66.72	DA
CWM-183-MW21	2"	3/16/2020	16:00	10.22	41.58	31.36	DA
CWM-183-MW22	2"	3/16/2020	16:05	11.35	65.73	54.38	DA

Matrix Environmental Services
283 Rucker Street
Anniston, Alabama 36205
(256) 847-0780
(256) 847-0905

Project Name
McClellan

Project Number
19.094.20-11.1

GROUNDWATER LEVELS

Field Personnel	Measuring Equipment	Date
Tulley/Abernathy	Solinst Water Level Meter	3/16/2020

Conditions

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
CWM-183-MW23	2"	3/16/2020	15:40	14.26	50.50	36.24	DA
CWM-183-MW24	2"	3/16/2020	16:09	8.93	31.24	22.31	DA
CWM-183-MW25	2"	3/16/2020	16:13	1.59	26.45	24.86	DA
CWM-183-MW26	2"	3/16/2020	14:33	9.65	22.68	13.03	DA
CWM-183-MW27	2"	3/16/2020	14:36	9.61	67.86	58.25	DA
CWM-183-MW28	2"	3/16/2020	15:14	15.81	200.80	184.99	DA
CWM-183-MW29	2"	3/16/2020	14:35	18.31	98.95	80.64	DA
CWM-183-MW30	2"	3/16/2020	14:05	4.89	190.11	185.22	DA
CWM-183-MW31	2"	3/16/2020	14:00	4.43	204.80	200.37	DA
CWM-183-MW32	2"	3/16/2020	15:35	6.82	43.00	36.18	DA
CWM-183-MW33	2"	3/16/2020	15:00	15.33	30.26	14.93	DA
CWM-183-MW34	2"	3/16/2020	15:31	18.77	59.00	40.23	DA
CWM-183-MW35	2"	3/16/2020	14:56	15.26	41.76	26.50	DA
T6-AS-01	4"	3/16/2020	15:23	6.86	85.90	79.04	DA
T6-AS-02	4"	3/16/2020	15:27	16.66	86.80	70.14	DA
T6-AS-03	4"	3/16/2020	15:31	18.84	80.00	61.16	DA
T6-AS-04	4"	3/16/2020	15:36	18.72	80.60	61.88	DA
T6-AS-05	4"	3/16/2020	15:41	20.36	80.00	59.64	DA
T6-AS-06	4"	3/16/2020	15:24	20.84	83.50	62.66	DA
T6-AS-07	4"	3/16/2020	15:20	21.86	75.00	53.14	DA
T6-AS-08	4"	3/16/2020	15:17	23.99	76.40	52.41	DA
T6-SVE-01	4"	3/16/2020	15:56	6.27	33.00	26.73	DA
T6-SVE-02	4"	3/16/2020	14:54	5.86	24.50	18.64	DA
T6-SVE-03	4"	3/16/2020	15:49	12.38	38.00	25.62	DA
T6-SVE-04	4"	3/16/2020	15:04	7.58	28.81	21.23	DA

Matrix Environmental Services
283 Rucker Street
Anniston, Alabama 36205
(256) 847-0780
(256) 847-0905

Project Name
McClellan

Project Number
19.094.20-11.1

GROUNDWATER LEVELS

Field Personnel	Measuring Equipment	Date
Tulley/Abernathy	Solinst Water Level Meter	3/16/2020

Conditions

Well ID	Casing Diameter	Date	Time	Depth to Water (feet)	Well Depth (feet)	Water Column (feet)	Initials
T6-SVE-05	4"	3/16/2020	16:19	3.31	42.37	39.06	DA
T6-SVE-06	4"	3/16/2020	15:12	15.37	19.38	4.01	DA
T6-SVE-07	4"	3/16/2020	16:23	20.41	36.95	16.54	DA
T6-SVE-08	4"	3/16/2020	14:53	14.14	14.88	0.74	DA

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW06	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 4.35 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/19/2020
Well Depth (TOC) 31.89 feet		**Location (Site)** T-6	**Begin Time** 9:30
Water Column Thickness 27.54 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 29.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 70	**Meters** YSI Pro Plus Geotech Water Level Meter	**Serial numbers**
Casing Volume 4.41 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/19/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 810.92 feet			
Groundwater Elevation 806.57 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** Not Applicable	**Depth to product** Not Applicable

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0945	0	17.00	90.6	0.36	46.9	0.0598	115.60	5.54	Cloudy	Brown	None
0950	450	16.80	92.2	0.48	40.5	0.0598	75.81	5.51	Cloudy	Brown	None
0955	450	17.00	92.1	0.55	39.6	0.0598	46.93	5.48	Cloudy	Brown	None
1000	450	17.20	92	0.48	32.7	0.0598	33.40	5.51	Clear	Clear	None
1005	450	17.30	91.9	0.35	18.8	0.0598	27.98	5.51	Clear	Clear	None
1010	450	17.20	91.8	0.36	10.7	0.0598	21.12	5.47	Clear	Clear	None
1015	450	17.40	91.7	0.35	5.1	0.0598	19.19	5.51	Clear	Clear	None
1020	450	17.20	91.6	0.35	-1.9	0.0598	16.95	5.49	Clear	Clear	None
1025	450	17.40	91.5	0.30	-6.8	0.0598	14.81	5.50	Clear	Clear	None
1030	450	17.40	91.5	0.32	-9.6	0.0598	14.51	5.49	Clear	Clear	None
1035	450	17.40	91.6	0.34	-12.2	0.0598	14.34	5.47	Clear	Clear	None
1040	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
55	4500	No	

QA/QC Samples

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW07	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 9.44 feet	**Sample Method** Low Flow	**Sampler** J. Tulley	**Date** 3/19/2020
Well Depth (TOC) 19.35 feet		**Location (Site)** T-6	**Begin Time** 8:30
Water Column Thickness 9.91 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 18.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 70	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 1.14 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/19/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 800.93 feet			
Groundwater Elevation 791.49 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
8:45	0	16.20	283.3	4.03	7.7	0.1839	21.56	6.34	Clear	Clear	None
8:50	375	16.70	281.4	3.54	31.3	0.1826	20.95	6.35	Clear	Clear	None
8:55	375	16.80	281.4	3.46	49.9	0.1826	19.45	6.36	Clear	Clear	None
9:00	375	16.80	281.3	3.48	53.6	0.1826	19.11	6.36	Clear	Clear	None
9:05	375	17.00	281	3.63	60.4	0.1826	20.20	6.38	Clear	Clear	None
9:10	375	17.00	281	3.56	61.2	0.1826	20.24	6.38	Clear	Clear	None
9:15	375	17.00	281	3.57	61.9	0.1826	19.99	6.38	Clear	Clear	None
9:16	Collecting Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	2250	No	

QA/QC Samples
Not Applicable

Signature JC 3.19.20

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW08	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 4.71 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/19/2020
Well Depth (TOC) 19.97 feet		**Location (Site)** T-6	**Begin Time** 7:30
	Equipment Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 17.0
Water Column Thickness 15.26 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 67	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 2.44 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/19/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 798.76 feet			
Groundwater Elevation 794.05 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
7:45	0	15.40	336.1	1.10	-137.4	0.2184	47.21	6.39	Cloudy	Clear	None
7:50	500	15.40	336.2	1.08	-140.5	0.2184	39.82	6.36	Cloudy	Clear	None
7:55	500	15.50	336.1	1.13	-148.7	0.2184	38.41	6.34	Cloudy	Clear	None
8:00	500	16.00	332.2	0.71	-154.9	0.2165	21.85	6.36	Clear	Clear	None
8:05	500	16.20	331.8	0.55	-153.3	0.2158	19.45	6.39	Clear	Clear	None
8:10	500	16.30	331.7	0.54	-152.9	0.2158	20.00	6.39	Clear	Clear	None
8:15	500	16.30	331.5	0.55	-152.5	0.2158	19.95	6.39	Clear	Clear	None
8:16	Collecting Sample Suite										

3-19-20

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	3000	No	

QA/QC Samples N/A

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW09	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 9.21 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/19/2020
Well Depth (TOC) 27.6 feet		**Location (Site)** T-6	**Begin Time** 9:45
Water Column Thickness 18.39 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 25.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 72	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 1.60 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/19/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 809.18 feet			
Groundwater Elevation 799.97 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
10:15	0	18.10	107.6	0.64	-51.4	0.0696	32.47	5.71	Cloudy	Clear	None
10:20	325	18.10	104.8	0.50	-58.4	0.0682	25.09	5.70	Cloudy	Clear	None
10:25	325	18.30	102.8	0.40	-62.1	0.067	25.01	5.64	Cloudy	Clear	None
10:30	325	18.30	102.1	0.42	-62.0	0.0663	23.24	5.62	Cloudy	Clear	None
10:35	325	18.60	101.7	0.41	-63.6	0.0663	22.18	5.64	Cloudy	Clear	None
10:40	325	18.90	101.5	0.42	-66.1	0.0657	21.00	5.67	Cloudy	Clear	None
10:45	325	19.00	101.5	0.41	-66.8	0.0657	19.15	5.66	Cloudy	Clear	None
10:50	325	19.00	101.5	0.42	-66.9	0.0657	19.12	5.67	Cloudy	Clear	None
10:51	Collect Sample Suite										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
35	2275	No	

QA/QC Samples N/A

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW11	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 22.85 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/19/2020
Well Depth (TOC) 101.95 feet		**Location (Site)** T-6	**Begin Time** 8:15
Water Column Thickness 79.1 feet	**Equipment** Geotech Bladder Pump Geotech Geocontrol Pro	**Laboratory** Test America	**Sample Depth** 90.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 62	**Meters** YSI Pro Plus #2 Geotech Water Level Meter	**Serial numbers**
Casing Volume 12.66 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/19/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 809.25 feet			
Groundwater Elevation 786.4 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0825	0	17.60	285.5	1.58	-107.6	0.1859	8.95	7.45	Clear	Clear	None
0830	450	18.00	286.7	1.08	-132.1	0.1872	33.50	7.57	Clear	Clear	None
0835	450	17.90	288.1	0.95	-145.1	0.1872	29.17	7.59	Clear	Clear	None
0840	450	17.80	288.2	0.84	-151.2	0.1872	14.93	7.60	Clear	Clear	None
0845	450	17.80	287.6	0.83	-153.8	0.1872	6.91	7.62	Clear	Clear	None
0850	450	17.70	287.2	0.84	-153.9	0.1865	5.02	7.63	Clear	Clear	None
0855	450	17.80	286.6	0.87	-152.4	0.1865	3.29	7.65	Clear	Clear	None
0900	450	18.00	286.4	0.86	-152.8	0.1859	3.00	7.66	Clear	Clear	None
0905	450	18.10	286.3	0.88	-151.3	0.1859	3.06	7.67	Clear	Clear	None
0910	450	18.10	286.2	0.90	-149.9	0.1859	3.15	7.67	Clear	Clear	None
0915	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)
50	4050	No

QA/QC Samples
N/A

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW13	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 17.69 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/18/2020
Well Depth (TOC) 57.95 feet		**Location (Site)** T-6	**Begin Time** 12:45
Water Column Thickness 40.26 feet	**Equipment** Solinst Model 408 Double Valve Pump Geotech Control Pro	**Laboratory** Test America	**Sample Depth** 45.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 74	**Meters** YSI Pro Plus Geotech Water Level Meter	**Serial numbers**
Casing Volume 6.44 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 801.81 feet			
Groundwater Elevation 784.12 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1300	0	18.40	296.8	0.61	-169.8	0.1943	17.16	6.86	Clear	Clear	None
1305	500	19.30	302	0.41	-176.3	0.1969	10.90	6.85	Clear	Clear	None
1310	500	19.60	309.8	0.36	-182.3	0.2028	6.96	6.90	Clear	Clear	None
1315	500	19.60	319.9	0.32	-184.4	0.2080	4.65	6.91	Clear	Clear	None
1320	500	20.00	328.2	0.29	-187.9	0.2132	2.80	6.93	Clear	Clear	None
1325	500	20.20	331.1	0.28	-191.3	0.2152	3.15	6.94	Clear	Clear	None
1330	500	19.90	330	0.25	-196.5	0.2132	2.65	6.94	Clear	Clear	None
1335	500	19.80	333.3	0.22	-199.5	0.2158	1.81	6.94	Clear	Clear	None
1340	500	19.60	332.3	0.22	-198.8	0.2165	2.19	6.93	Clear	Clear	None
1345	500	19.40	331.2	0.23	-197.1	0.2158	6.93	6.93	Clear	Clear	None
1355	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	4500	No	

QA/QC Samples	Signature
MS/MSD	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW15	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 7.9 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/18/2020
Well Depth (TOC) 25.45 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Location (Site)** T-6	**Begin Time** 9:10
Water Column Thickness 17.55 feet		**Laboratory** Test America	**Sample Depth** 18.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 63	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 2.81 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** sunny	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 793.21 feet			
Groundwater Elevation 785.31 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:15	0	17.10	344.5	4.35	-19.1	0.2243	57.40	7.08	Cloudy	Brown	None
9:20	500	17.10	344.8	4.43	-16.2	0.2249	53.86	7.10	Cloudy	Brown	None
9:25	500	16.90	345.6	4.90	-12.9	0.2243	50.55	7.07	Cloudy	Brown	None
9:30	500	16.90	349.2	3.72	-6.2	0.2282	37.09	7.04	Cloudy	Brown	None
9:35	500	16.80	351	4.20	-3.8	0.2282	24.85	7.04	Clear	Clear	None
9:40	500	17.00	352.5	3.02	1.6	0.2288	21.99	7.06	Clear	Clear	None
9:45	500	17.00	352.8	3.14	1.7	0.2294	22.86	7.06	Clear	Clear	None
9:50	500	17.10	352.9	3.37	1.9	0.2294	21.85	7.07	Clear	Clear	None
9:51	Collecting Sample Sweat										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
35	3500	No	

QA/QC Samples N/A

Signature 3.18.20

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW16	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 8.15 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/18/2020
Well Depth (TOC) 84 feet		**Location (Site)** T-6	**Begin Time** 7:45
	Equipment Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 78.0
Water Column Thickness 75.85 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 61	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 12.14 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 793.13 feet			
Groundwater Elevation 784.98 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
8:15	0	17.10	350.5	1.97	126.7	0.2282	8.38	7.89	Clear	Clear	None
8:20	375	16.50	356.5	5.05	69.4	0.2314	8.45	7.62	Clear	Clear	None
8:25	375	16.50	356.5	3.05	54.9	0.2314	8.03	7.60	Clear	Clear	None
8:30	375	16.60	356.4	2.00	34.3	0.2314	8.01	7.59	Clear	Clear	None
8:35	375	17.30	356.4	4.07	-51.7	0.232	8.29	7.70	Clear	Clear	None
8:40	375	17.20	357.2	3.37	-53.1	0.232	8.01	7.69	Clear	Clear	None
8:45	375	17.30	356.9	1.52	-92.5	0.232	8.53	7.68	Clear	Clear	None
8:50	375	17.20	357.4	0.80	-137.1	0.232	8.58	7.67	Clear	Clear	None
8:55	375	17.10	357.1	0.69	-136.1	0.232	8.23	7.67	clear	Clear	None
9:00	375	17.10	357.5	0.68	-137.8	0.232	8.04	7.67	Clear	Clear	None
9:01			Collecting Sample Suite JDD 3.18.20								

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
45	3375	No	

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW17	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 6.71 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/18/2020
Well Depth (TOC) 46.6 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Location (Site)** T-6	**Begin Time** 12:50
Water Column Thickness 39.89 feet		**Laboratory** Test America	**Sample Depth** 42.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 75	**Meters** YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 6.38 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 790.78 feet			
Groundwater Elevation 784.07 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
13:20	0	16.60	536.5	4.64	17.6	0.3471	13.71	8.17	Clear	Clear	None
13:25	500	16.60	537.2	4.36	18.0	0.349	10.09	8.27	Clear	Clear	None
13:30	500	16.90	537.3	4.30	19.2	0.349	7.65	8.30	Clear	Clear	None
13:35	500	16.40	536.1	4.04	33.6	0.3497	6.13	8.25	Clear	Clear	None
13:40	500	16.50	557	1.34	-118.4	0.3627	5.96	7.92	Clear	Clear	None
13:45	500	16.50	555.9	0.89	-140.4	0.3608	6.64	7.66	Clear	Clear	None
13:50	500	16.40	543.3	0.75	-148.1	0.3497	5.05	7.48	Clear	Clear	None
13:55	500	16.40	26.1	0.99	-116.5	0.0182	6.56	7.36	Clear	Clear	None
14:00	500	16.70	27.8	1.23	-108.1	0.015	6.01	7.31	Clear	Clear	None
14:05	500	16.80	25.9	1.39	-107.9	0.015	5.72	7.31	Clear	Clear	None
14:10	500	16.60	25.2	1.20	-106.9	0.015	5.55	7.31	Clear	Clear	None
14:11			Collecting Sample Suite								

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	5000	No	

QA/QC Samples

Signature J. L

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW19	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 4.99 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/17/2020
Well Depth (TOC) 99.56 feet		**Location (Site)** T-6	**Begin Time** 10:00
Water Column Thickness 94.57 feet	**Equipment** Geotech Bladder Pump Geotech Gecontrol Pro	**Laboratory** Test America	**Sample Depth** 90.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 62	**Meters** YSI Pro Plus #2 Geotech Water Level Meter	**Serial numbers**
Casing Volume 15.13 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/17/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 787.06 feet			
Groundwater Elevation 782.07 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1005	0	17.30	394.4	0.77	-73.8	0.2561	6.76	7.52	Clear	Clear	None
1010	500	17.10	393.6	0.39	-108.9	0.2561	1.75	7.56	Clear	Clear	None
1015	500	17.40	393.3	0.33	-139.7	0.2561	3.02	7.66	Clear	Clear	None
1020	500	17.30	392.8	0.32	-145.6	0.2561	3.39	7.69	Clear	Clear	None
1025	500	17.20	392.1	0.34	-155.8	0.2548	2.75	7.70	Clear	Clear	None
1030	500	17.10	392.3	0.36	-152.3	0.2548	2.62	7.72	Clear	Clear	None
1035	500	17.10	391.6	0.52	-140.4	0.2542	2.46	7.72	Clear	Clear	None
1040	500	17.10	390.9	0.68	-133.5	0.2542	2.78	7.74	Clear	Clear	None
1045	500	17.10	393	1.12	-108.2	0.2554	2.54	7.75	Clear	Clear	None
1050	500	17.10	392.4	2.22	-68.8	0.2554	2.36	7.75	Clear	Clear	None
1055	500	17.10	392.3	3.12	-70.1	0.2548	2.25	7.75	Clear	Clear	None
1100	500	17.20	392.2	3.42	-64.5	0.2548	2.36	7.76	Clear	Clear	None

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
100	9500	No	continued on page 2

QA/QC Samples DUP 342

Signature

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780
(256) 847-0905

Station Name/Sample ID: CWM-183-MW19

Project: McClellan

Date: 3/17/2020

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1105	500	17.4	390.8	2.98	-80.2	0.2554	2.15	7.77	Clear	Clear	None
1110	500	18	393.2	2.76	-82.1	0.2554	1.94	7.8	Clear	Clear	None
1115	500	17.9	393	2.83	-92.6	0.2554	1.82	7.79	Clear	Clear	None
1120	500	17.9	392.1	2.73	-96.1	0.2548	1.91	7.77	Clear	Clear	None
1125	500	18	389.8	2.21	-115.6	0.2535	2.08	7.78	Clear	Clear	None
1130	500	18.2	389	1.95	-123.6	0.2529	1.95	7.77	Clear	Clear	None
1135	500	17.9	387.5	1.8	-125.9	0.2522	1.86	7.76	Clear	Clear	None
1140	500	17.8	387.2	1.75	-128.1	0.2522	2.1	7.77	Clear	Clear	None
1145	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
100	9500	No	

QA/QC Samples
DUP 342

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW20	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 11.07 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/18/2020
Well Depth (TOC) 77.8 feet		**Location (Site)** T-6	**Begin Time** 10:15
Water Column Thickness 66.73 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 72.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 70	**Meters** YSI 556 MPS Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 10.68 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 798.81 feet			
Groundwater Elevation 787.74 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
10:45	0	17.40	448.7	5.88	-151.3	0.2919	102.30	7.60	Cloudy	Brown	None
10:50	500	17.90	434.3	0.48	-188.1	0.2821	103.30	7.67	Cloudy	Brown	None
10:55	500	17.70	419.4	0.56	-199.0	0.2723	106.10	7.66	Cloudy	Brown	None
11:00	500	18.00	409.9	1.62	-200.1	0.2659	102.10	7.66	Cloudy	Brown	None
11:05	500	18.30	409	1.87	-201.0	0.2646	108.20	7.69	Cloudy	Brown	None
11:10	500	18.10	406.4	0.59	-201.6	0.2646	104.10	7.68	Cloudy	Brown	None
11:15	500	18.40	404.7	0.80	-203.1	0.2626	51.74	7.68	Cloudy	Clear	None
11:20	500	18.70	411.1	0.72	-203.9	0.2618	44.52	7.69	Cloudy	Clear	None
11:25	500	18.70	402.7	1.56	-195.9	0.2619	46.32	7.66	Cloudy	Clear	None
11:30	500	18.70	401.1	1.67	-200.3	0.2613	45.09	7.67	Cloudy	Clear	None
11:35	500	18.80	400	0.98	-200.9	0.2603	44.72	7.67	Cloudy	Clear	None
11:36				Collecting Sample Suite							

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
50	5000	No	

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW21	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 10.76 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/18/2020
Well Depth (TOC) 41.58 feet		**Location (Site)** T-6	**Begin Time** 8:00
Water Column Thickness 30.82 feet	**Equipment** Geotech Bladder Pump Geotech Geocontrol Pro	**Laboratory** Test America	**sample depth** 35.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 61	**Meters** YSI Pro Plus #2 Geotech Water Level Meter	**Serial numbers**
Casing Volume 4.93 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** Not Applicable
Well Elevation (TOC) 813.92 feet			
Groundwater Elevation 803.16 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0815	0	16.50	248.1	0.69	-102.1	0.1599	211.30	6.94	Cloudy	Brown	None
0820	500	16.70	239.9	0.94	-97.3	0.1560	37.32	6.88	Cloudy	Brown	None
0825	500	16.70	236.5	1.05	-97.3	0.1534	24.12	6.86	Clear	Clear	None
0830	500	16.70	234.9	1.26	-98.2	0.1521	23.98	6.85	Clear	Clear	None
0835	500	16.90	231.1	1.06	-100.0	0.1502	20.81	6.82	Clear	Clear	None
0840	500	17.00	233.2	1.00	-104.3	0.1514	18.05	6.84	Clear	Clear	None
0845	500	17.20	233.9	0.91	-108.1	0.1521	16.51	6.89	Clear	Clear	None
0850	500	16.90	232.9	0.89	-107.4	0.1514	15.91	6.86	Clear	Clear	None
0855	500	17.20	233.1	0.85	-108.3	0.1514	14.76	6.87	Clear	Clear	None
0900	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
45	4000	No	Emptied flow cell after first reading due to high turbidity

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW22	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 12.09 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/18/2020
Well Depth (TOC) 65.71 feet		**Location (Site)** T-6	**Begin Time** 9:15
Water Column Thickness 53.62 feet	**Equipment** Solinst Model 408 Double Valve Pump Geotech Geocontrol Pro	**Laboratory** Test America	**Sample Depth** 58.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 63	**Meters** YSI Pro Plus #2 Geotech Water Level Meter	**Serial numbers**
Casing Volume 8.58 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/18/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 814.59 feet			
Groundwater Elevation 802.5 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
0930	0	17.40	252.6	0.69	-154.1	0.1644	11.52	7.45	Clear	Clear	None
0935	500	17.40	252.9	0.57	-154.2	0.1644	7.96	7.45	Clear	Clear	None
0940	500	17.60	253.6	0.49	-156.4	0.1664	6.64	7.45	Clear	Clear	None
0945	500	17.80	255.1	0.43	-157.1	0.1664	5.70	7.45	Clear	Clear	None
0950	500	17.90	256	0.39	-158.6	0.1664	4.99	7.45	Clear	Clear	None
0955	500	18.00	256.2	0.35	-159.1	0.1664	4.75	7.45	Clear	Clear	None
1000	500	18.10	256.3	0.34	-159.6	0.1664	5.15	7.45	Clear	Clear	None
1005	500	18.20	256.4	0.33	-160.1	0.1664	4.86	7.45	Clear	Clear	None
1010	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
40	3500	No	

QA/QC Samples

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW23	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 15.37 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/19/2020
Well Depth (TOC) 50.5 feet		**Location (Site)** T-6	**Begin Time** 11:25
Water Column Thickness 35.13 feet	**Equipment** Geotech Bladder Pump Geotech Geocontrol Pro	**Laboratory** Test America	**Sample Depth** 40.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 76	**Meters** YSI Pro Plus#2 Geotech Water Level Meter	**Serial numbers**
Casing Volume 5.62 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Sunny	**Calibration** Field 3/19/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 822.28 feet			
Groundwater Elevation 806.91 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1135	0	21.20	1081	0.27	-154.8	0.7020	34.08	6.67	Clear	Clear	Fishy
1140	450	20.90	1078	0.30	-149.9	0.7020	27.05	6.67	Clear	Clear	Fishy
1145	450	21.00	1075	0.32	-147.6	0.6955	25.76	6.68	Clear	Clear	Fishy
1150	450	21.30	1068	0.31	-145.0	0.6955	25.14	6.67	Clear	Clear	Fishy
1155	450	21.10	1068	0.41	-139.2	0.7020	26.64	6.66	Clear	Clear	Fishy
1200	450	21.00	1067	0.42	-136.2	0.6955	27.83	6.66	Clear	Clear	Fishy
1205	450	21.20	1068	0.45	-133.9	0.6955	24.28	6.67	Clear	Clear	Fishy
1210	450	20.90	1067	0.50	-129.6	0.6955	20.76	6.66	Clear	Clear	Fishy
1215	450	20.70	1067	0.53	-125.4	0.6890	19.44	6.65	Clear	Clear	Fishy
1220	450	21.00	1068	0.54	-124.5	0.6955	20.10	6.65	Clear	Clear	Fishy
1225	450	21.00	1069	0.55	-123.5	0.6955	20.10	6.67	Clear	Clear	Fishy
1230	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
55	4500	No	Fishy odor to the water, Sample water reacted to the HCL Preservative, Collected samples in Unpreserved VOAs

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW25	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 1.79 feet	**Sample Method** Low Flow	**Sampler** D. Abernathy	**Date** 3/17/2020
Well Depth (TOC) 26.45 feet		**Location (Site)** T-6	**Begin Time** 13:45
Water Column Thickness 24.66 feet	**Equipment** Geotech Bladder Pump Geotech Geocontrol Pro	**Laboratory** Test America	**Sample Depth** 19.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 69	**Meters** YSI Pro Plus #2 Geotevh Water Level Meter	**Serial numbers**
Casing Volume 3.95 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/17/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 798.08 feet			
Groundwater Elevation 796.29 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
1355	0	17.00	100	8.03	42.4	0.0643	75.50	5.69	Cloudy	Brown	None
1400	450	16.90	98.3	7.94	41.9	0.0637	175.90	5.61	Cloudy	Brown	None
1405	450	16.80	97.4	6.54	40.9	0.0631	250.08	5.60	Cloudy	Brown	None
1410	450	16.90	96.7	0.37	38.4	0.0631	156.50	5.62	Cloudy	Brown	None
1415	450	17.00	96.4	0.35	33.8	0.0631	136.00	5.63	Cloudy	Brown	None
1420	450	17.00	96.3	0.39	28.6	0.0624	119.60	5.66	Cloudy	Brown	None
1425	450	17.00	96.4	0.38	27.5	0.0624	96.50	5.68	Cloudy	Brown	None
1430	450	16.90	96.4	0.52	26.9	0.0624	89.30	5.69	Cloudy	Brown	None
1435	450	17.10	96.4	0.55	25.2	0.0624	83.40	5.71	Cloudy	Brown	None
1440	450	17.00	96.2	0.59	23.6	0.0624	77.15	5.72	Cloudy	Brown	None
1445	450	17.20	96	0.63	23.8	0.0624	72.73	5.73	Cloudy	Brown	None
1450	450	17.20	95.9	0.68	21.9	0.0624	70.70	5.73	Cloudy	Brown	None

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
70	5850	No	continued on page 2

QA/QC Samples N/A

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780
(256) 847-0905

Station Name/Sample ID: CWM-183-MW25

Project: McClellan

Date: 3/17/2020

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
14:55	450	17.3	96	0.73	21.9	0.0624	69.4	5.74	Cloudy	White	None
15:00	450	17.4	95.9	0.75	22.7	0.0624	68.9	5.73	Cloudy	White	None
15:05	Collect Sample										

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
70	5850	No	

QA/QC Samples
N/A

Signature

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW28	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 15.81 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/17/2020
Well Depth (TOC) 200.5 feet		**Location (Site)** T-6	**Begin Time** 12:50
Water Column Thickness 184.69 feet	**Equipment** Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 190.0
		Sample Suite See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 66	**Meters** YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol PRO	**Serial numbers**
Casing Volume 29.55 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/17/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 802.34 feet			
Groundwater Elevation 786.53 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
13:40	0	18.30	376	5.06	-199.9	0.2451	15.98	8.81	Clear	Clear	Sulfur-like
13:45	750	18.20	375.5	2.99	-226.8	0.2444	16.86	9.04	Clear	Clear	Sulfur-like
13:50	750	18.10	374.6	1.78	-243.1	0.2438	13.47	9.11	Clear	Clear	Sulfur-like
13:55	750	17.90	374.9	1.12	-258.2	0.2438	13.55	9.20	Clear	Clear	Sulfur-like
14:00	750	17.80	374.4	0.70	-270.2	0.2438	13.09	9.26	Clear	Clear	Sulfur-like
14:05	750	17.30	374.8	0.56	-272.3	0.2438	13.25	9.26	Clear	Clear	Sulfur-like
14:10	750	17.30	374.4	0.54	-273.0	0.2438	12.86	9.26	Clear	Clear	Sulfur-like
14:11				Collected Sample Suite							

3.17.20

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	4500	No	very small black flakes in sample

QA/QC Samples	Signature
N/A	

Matrix ENVIRONMENTAL

Matrix Environmental Services
283 Rucker Street
Anniston, AL 36205
(256) 847-0780

Station Name/Sample ID	
CWM-183-MW31	
Project	**Project Number**
McClellan	19.094.20-11.1

GROUNDWATER SAMPLING LOG

Groundwater Depth (TOC) 4.43 feet	**Sample Method** Low Flow	**Sampler** Tulley	**Date** 3/17/2020
Well Depth (TOC) 204.8 feet		**Location (Site)** T-6	**Begin Time** 9:00
	Equipment Geotech Bladder Pump Geotech Ceocontrol Pro	**Laboratory** Test America	**Sample Depth** 198.0
Water Column Thickness 200.37 feet		**Sample Suite** See COCs	
Casing Diameter 2 inches	**Temperature (°F)** 65	**Meters** YSI Pro Plus Solinst Water Level Meter Geotech Geocontrol Pro	**Serial numbers**
Casing Volume 32.06 gallons 1"=x0.04 2"=x0.16 4"=x0.65 6"=x1.47 8"=x10.4	**Weather Conditions** Overcast	**Calibration** Field 3/17/2020	**Ferrous Iron (Fe II) (mg/L)** N/A
Well Elevation (TOC) 789.22 feet			
Groundwater Elevation 784.79 feet	**Parameter Stabilization** temp +/- 1° DO +/- 10% Turbidity +/- 10% cond +/- 3% ORP +/- 10mV pH +/- 0.1 unit	**Product Observed (yes/no)** N/A	**Depth to product** N/A

Time	Volume removed (mL)	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	TDS (g/L)	Turbidity (NTU)	pH	Description		
									clarity	color	odor
9:50	0	17.10	383.1	2.11	-245.3	0.2489	3.09	8.41	Clear	Clear	None
9:55	750	17.10	382.2	2.41	-249.1	0.2483	3.33	8.47	Clear	Clear	None
10:00	750	17.20	382.2	2.43	-250.6	0.2489	2.98	8.48	Clear	Clear	None
10:05	750	17.20	382.2	2.24	-255.1	0.2489	3.42	8.49	Clear	Clear	None
10:10	750	17.20	382.3	2.30	-258.8	0.2489	2.83	8.50	Clear	Clear	None
10:15	750	17.20	382.5	2.14	-259.1	0.2483	2.99	8.51	Clear	Clear	None
10:20	750	17.20	382.4	2.14	-259.5	0.2483	2.80	8.51	Clear	Clear	None
10:21			Collected Sample Sister								

3.17.20

Total Time (min.)	Total Volume Removed	Well pumped dry (yes/no)	Notes
30	4500	No	

QA/QC Samples	Signature
N/A	

APPENDIX B

LABORATORY DATA PACKAGES

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-174487-1
Client Project/Site: McClellan, Anniston, Alabama
Revision: 1

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Authorized for release by:
10/9/2019 10:17:40 AM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Matrix Environmental Services, LLC
Project/Site: McClellan, Anniston, Alabama

Job ID: 680-174487-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: McClellan, Anniston, Alabama

Job ID: 680-174487-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-174487-1	CWM-183-MW17	Water	09/23/19 10:21	09/24/19 09:20	
680-174487-2	CWM-183-MW03	Water	09/23/19 12:11	09/24/19 09:20	
680-174487-3	CWM-183-MW15	Water	09/23/19 13:36	09/24/19 09:20	
680-174487-4	TB #538	Water	09/23/19 14:30	09/24/19 09:20	

Job ID: 680-174487-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE
Client: Matrix Environmental Services, LLC
Project: McClellan, Anniston, Alabama

Report Number: 680-174487-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

REVISED REPORT
This report, issued on 10/9/19, is a revision of a previous report issued on 10/8/19 to remove nitrite from the reported analytes for Method 9056.

RECEIPT
The samples were received on 9/24/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples CWM-183-MW17 (680-174487-1), CWM-183-MW15 (680-174487-3) and TB #538 (680-174487-4) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/03/2019 and 10/04/2019.

Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (680-174480-D-10 MSD). The parent sample's surrogate recovery was within limits. The MSD sample has been qualified and reported.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-589008 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The laboratory control sample (LCS) for analytical batch 680-589234 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-589234.

trans-1,2-Dichloroethene was detected in method blank MB 680-589008/9 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA
Samples CWM-183-MW03 (680-174487-2) and CWM-183-MW15 (680-174487-3) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 09/25/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

9056 ANIONS

Job ID: 680-174487-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

Samples CWM-183-MW03 (680-174487-2) and CWM-183-MW15 (680-174487-3) were analyzed for 9056 Anions in accordance with SW 846 9056. The samples were analyzed on 09/27/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY IC (NITRATE/NITRITE)

Samples CWM-183-MW03 (680-174487-2) and CWM-183-MW15 (680-174487-3) were analyzed for Anions by IC (Nitrate/Nitrite) in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 09/25/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: CWM-183-MW17

Lab Sample ID: 680-174487-1

Date Collected: 09/23/19 10:21

Matrix: Water

Date Received: 09/24/19 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/03/19 18:54	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/03/19 18:54	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/03/19 18:54	1
cis-1,2-Dichloroethene	**0.53**	**J**	1.0	0.41	ug/L			10/03/19 18:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/03/19 18:54	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/03/19 18:54	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/03/19 18:54	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/03/19 18:54	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/03/19 18:54	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/03/19 18:54	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/03/19 18:54	1
Trichloroethene	**3.8**		1.0	0.48	ug/L			10/03/19 18:54	1
Vinyl chloride	**2.4**		1.0	0.50	ug/L			10/03/19 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/03/19 18:54*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*10/03/19 18:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*10/03/19 18:54*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/03/19 18:54*	*1*

Client Sample ID: CWM-183-MW03

Lab Sample ID: 680-174487-2

Date Collected: 09/23/19 12:11

Matrix: Water

Date Received: 09/24/19 09:20

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.023	U	0.050	0.023	mg/L			09/25/19 10:48	1
Sulfate	**4.2**		1.0	0.40	mg/L			09/27/19 21:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			09/25/19 10:45	1

Client Sample ID: CWM-183-MW15

Lab Sample ID: 680-174487-3

Date Collected: 09/23/19 13:36

Matrix: Water

Date Received: 09/24/19 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/04/19 15:52	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/04/19 15:52	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/04/19 15:52	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.41	ug/L			10/04/19 15:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/04/19 15:52	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/04/19 15:52	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/04/19 15:52	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			10/04/19 15:52	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/04/19 15:52	1
trans-1,2-Dichloroethene	**4.3**		1.0	0.37	ug/L			10/04/19 15:52	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/04/19 15:52	1
Trichloroethene	**1.8**		1.0	0.48	ug/L			10/04/19 15:52	1

Client Sample ID: CWM-183-MW15

Lab Sample ID: 680-174487-3

Date Collected: 09/23/19 13:36

Matrix: Water

Date Received: 09/24/19 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**1.4**		1.0	0.50	ug/L			10/04/19 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/04/19 15:52*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 122*		*10/04/19 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*10/04/19 15:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/04/19 15:52*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.023	U	0.050	0.023	mg/L			09/25/19 11:03	1
Sulfate	**2.2**		1.0	0.40	mg/L			09/27/19 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			09/25/19 10:45	1

Client Sample ID: TB #538

Lab Sample ID: 680-174487-4

Date Collected: 09/23/19 14:30

Matrix: Water

Date Received: 09/24/19 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/03/19 17:11	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/03/19 17:11	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/03/19 17:11	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/03/19 17:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/03/19 17:11	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/03/19 17:11	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/03/19 17:11	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/03/19 17:11	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/03/19 17:11	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/03/19 17:11	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/03/19 17:11	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/03/19 17:11	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/03/19 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/03/19 17:11*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*10/03/19 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*10/03/19 17:11*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/03/19 17:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-589008/9
Matrix: Water
Analysis Batch: 589008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/03/19 15:27	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/03/19 15:27	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/03/19 15:27	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/03/19 15:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/03/19 15:27	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/03/19 15:27	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/03/19 15:27	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/03/19 15:27	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/03/19 15:27	1
trans-1,2-Dichloroethene	0.427	J	1.0	0.37	ug/L			10/03/19 15:27	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/03/19 15:27	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/03/19 15:27	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/03/19 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/03/19 15:27*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/03/19 15:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*10/03/19 15:27*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/03/19 15:27*	*1*

Lab Sample ID: LCS 680-589008/3
Matrix: Water
Analysis Batch: 589008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	51.4		ug/L		103	66 - 135
Chloroform	50.0	49.3		ug/L		99	80 - 120
Chloromethane	50.0	40.3		ug/L		81	69 - 131
cis-1,2-Dichloroethene	50.0	47.0		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	47.8		ug/L		96	80 - 120
1,1-Dichloroethene	50.0	44.2		ug/L		88	76 - 120
Methylene Chloride	50.0	47.8		ug/L		96	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	80 - 120
Tetrachloroethylene	50.0	53.9		ug/L		108	80 - 121
trans-1,2-Dichloroethene	50.0	48.5		ug/L		97	80 - 120
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	80 - 120
Trichloroethene	50.0	49.8		ug/L		100	80 - 120
Vinyl chloride	50.0	39.9		ug/L		80	71 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589008/4
Matrix: Water
Analysis Batch: 589008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	53.7		ug/L		107	66 - 135	4	20
Chloroform			50.0	49.9		ug/L		100	80 - 120	1	20
Chloromethane			50.0	50.2		ug/L		100	69 - 131	22	30
cis-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 120	4	20
1,2-Dichloroethane			50.0	48.7		ug/L		97	80 - 120	2	50
1,1-Dichloroethene			50.0	47.5		ug/L		95	76 - 120	7	20
Methylene Chloride			50.0	48.8		ug/L		98	80 - 120	2	20
1,1,2,2-Tetrachloroethane			50.0	47.0		ug/L		94	80 - 120	1	20
Tetrachloroethylene			50.0	54.6		ug/L		109	80 - 121	1	20
trans-1,2-Dichloroethene			50.0	49.5		ug/L		99	80 - 120	2	20
1,1,2-Trichloroethane			50.0	47.4		ug/L		95	80 - 120	1	20
Trichloroethene			50.0	50.6		ug/L		101	80 - 120	2	20
Vinyl chloride			50.0	48.3		ug/L		97	71 - 128	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 680-589234/10
Matrix: Water
Analysis Batch: 589234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/04/19 13:54	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/04/19 13:54	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/04/19 13:54	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/04/19 13:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/04/19 13:54	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/04/19 13:54	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/04/19 13:54	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/04/19 13:54	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/04/19 13:54	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/04/19 13:54	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/04/19 13:54	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/04/19 13:54	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/04/19 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/04/19 13:54*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*10/04/19 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*10/04/19 13:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/04/19 13:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589234/4
Matrix: Water
Analysis Batch: 589234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloroethane			50.0	62.7		ug/L		125	66 - 135		
Chloroform			50.0	53.0		ug/L		106	80 - 120		
Chloromethane			50.0	56.1		ug/L		112	69 - 131		
cis-1,2-Dichloroethene			50.0	51.2		ug/L		102	80 - 120		
1,2-Dichloroethane			50.0	50.1		ug/L		100	80 - 120		
1,1-Dichloroethene			50.0	53.1		ug/L		106	76 - 120		
Methylene Chloride			50.0	58.1		ug/L		116	80 - 120		
1,1,2,2-Tetrachloroethane			50.0	63.2	*	ug/L		126	80 - 120		
Tetrachloroethylene			50.0	47.5		ug/L		95	80 - 121		
trans-1,2-Dichloroethene			50.0	52.2		ug/L		104	80 - 120		
1,1,2-Trichloroethane			50.0	46.6		ug/L		93	80 - 120		
Trichloroethene			50.0	55.1		ug/L		110	80 - 120		
Vinyl chloride			50.1	62.8		ug/L		125	71 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*115*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 680-589234/5
Matrix: Water
Analysis Batch: 589234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	58.5		ug/L		117	66 - 135	7	20
Chloroform			50.0	51.0		ug/L		102	80 - 120	4	20
Chloromethane			50.0	54.5		ug/L		109	69 - 131	3	30
cis-1,2-Dichloroethene			50.0	53.2		ug/L		106	80 - 120	4	20
1,2-Dichloroethane			50.0	48.4		ug/L		97	80 - 120	3	50
1,1-Dichloroethene			50.0	53.0		ug/L		106	76 - 120	0	20
Methylene Chloride			50.0	57.5		ug/L		115	80 - 120	1	20
1,1,2,2-Tetrachloroethane			50.0	56.1		ug/L		112	80 - 120	12	20
Tetrachloroethylene			50.0	50.4		ug/L		101	80 - 121	6	20
trans-1,2-Dichloroethene			50.0	56.0		ug/L		112	80 - 120	7	20
1,1,2-Trichloroethane			50.0	50.1		ug/L		100	80 - 120	7	20
Trichloroethene			50.0	53.4		ug/L		107	80 - 120	3	20
Vinyl chloride			50.1	61.1		ug/L		122	71 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*
Toluene-d8 (Surr)	*107*		*80 - 120*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-587642/2
Matrix: Water
Analysis Batch: 587642

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.023	U	0.050	0.023	mg/L			09/25/19 09:49	1

Lab Sample ID: LCS 680-587642/3
Matrix: Water
Analysis Batch: 587642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	0.952		mg/L		95	90 - 110

Lab Sample ID: LCSD 680-587642/4
Matrix: Water
Analysis Batch: 587642

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	0.951		mg/L		95	90 - 110	0	15

Lab Sample ID: 680-174487-3 MS
Matrix: Water
Analysis Batch: 587642

Client Sample ID: CWM-183-MW15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.023	U	0.999	0.992		mg/L		99	80 - 120

Lab Sample ID: 680-174487-3 MSD
Matrix: Water
Analysis Batch: 587642

Client Sample ID: CWM-183-MW15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.023	U	0.999	1.00		mg/L		100	80 - 120	1	15

Lab Sample ID: MB 680-588076/2
Matrix: Water
Analysis Batch: 588076

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			09/27/19 10:46	1

Lab Sample ID: LCS 680-588076/3
Matrix: Water
Analysis Batch: 588076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-588076/4
Matrix: Water
Analysis Batch: 588076

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	15

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 680-588142/33
Matrix: Water
Analysis Batch: 588142

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.40	U	1.0	0.40	mg/L			09/27/19 19:10	1

Lab Sample ID: LCS 680-588142/34
Matrix: Water
Analysis Batch: 588142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	11.0		mg/L		110	90 - 110

Lab Sample ID: LCSD 680-588142/35
Matrix: Water
Analysis Batch: 588142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.9		mg/L		109	90 - 110	1	15

Method: 350.1-1993 R2.0 - Nitrogen, Ammonia

Lab Sample ID: MB 680-587705/12
Matrix: Water
Analysis Batch: 587705

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.10	U	0.25	0.10	mg/L			09/25/19 10:27	1

Lab Sample ID: LCS 680-587705/11
Matrix: Water
Analysis Batch: 587705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.955		mg/L		95	90 - 110

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: McClellan, Anniston, Alabama

Job ID: 680-174487-1

GC/MS VOA

Analysis Batch: 589008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174487-1	CWM-183-MW17	Total/NA	Water	8260B	
680-174487-4	TB #538	Total/NA	Water	8260B	
MB 680-589008/9	Method Blank	Total/NA	Water	8260B	
LCS 680-589008/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589008/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 589234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174487-3	CWM-183-MW15	Total/NA	Water	8260B	
MB 680-589234/10	Method Blank	Total/NA	Water	8260B	
LCS 680-589234/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589234/5	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 587642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174487-2	CWM-183-MW03	Total/NA	Water	9056A	
680-174487-3	CWM-183-MW15	Total/NA	Water	9056A	
MB 680-587642/2	Method Blank	Total/NA	Water	9056A	
LCS 680-587642/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-587642/4	Lab Control Sample Dup	Total/NA	Water	9056A	
680-174487-3 MS	CWM-183-MW15	Total/NA	Water	9056A	
680-174487-3 MSD	CWM-183-MW15	Total/NA	Water	9056A	

Analysis Batch: 588076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174487-3	CWM-183-MW15	Total/NA	Water	9056A	
MB 680-588076/2	Method Blank	Total/NA	Water	9056A	
LCS 680-588076/3	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-588076/4	Lab Control Sample Dup	Total/NA	Water	9056A	

Analysis Batch: 588142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174487-2	CWM-183-MW03	Total/NA	Water	9056A	
MB 680-588142/33	Method Blank	Total/NA	Water	9056A	
LCS 680-588142/34	Lab Control Sample	Total/NA	Water	9056A	
LCSD 680-588142/35	Lab Control Sample Dup	Total/NA	Water	9056A	

General Chemistry

Analysis Batch: 587705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174487-2	CWM-183-MW03	Total/NA	Water	350.1-1993 R2.0	
680-174487-3	CWM-183-MW15	Total/NA	Water	350.1-1993 R2.0	
MB 680-587705/12	Method Blank	Total/NA	Water	350.1-1993 R2.0	
LCS 680-587705/11	Lab Control Sample	Total/NA	Water	350.1-1993 R2.0	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: McClellan, Anniston, Alabama

Job ID: 680-174487-1

Client Sample ID: CWM-183-MW17
Date Collected: 09/23/19 10:21
Date Received: 09/24/19 09:20

Lab Sample ID: 680-174487-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589008	10/03/19 18:54	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW03
Date Collected: 09/23/19 12:11
Date Received: 09/24/19 09:20

Lab Sample ID: 680-174487-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		1	5 mL	5 mL	588142	09/27/19 21:04	UI	TAL SAV
	Instrument ID: CICK									
Total/NA	Analysis	9056A		1	5 mL	5 mL	587642	09/25/19 10:48	UI	TAL SAV
	Instrument ID: CICL									
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	587705	09/25/19 10:45	AMH	TAL SAV
	Instrument ID: KONELAB1									

Client Sample ID: CWM-183-MW15
Date Collected: 09/23/19 13:36
Date Received: 09/24/19 09:20

Lab Sample ID: 680-174487-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589234	10/04/19 15:52	Y1S	TAL SAV
	Instrument ID: CMSA2									
Total/NA	Analysis	9056A		1	5 mL	5 mL	588076	09/27/19 18:20	EKB	TAL SAV
	Instrument ID: CICK									
Total/NA	Analysis	9056A		1	5 mL	5 mL	587642	09/25/19 11:03	UI	TAL SAV
	Instrument ID: CICL									
Total/NA	Analysis	350.1-1993 R2.0		1	2 mL	2 mL	587705	09/25/19 10:45	AMH	TAL SAV
	Instrument ID: KONELAB1									

Client Sample ID: TB #538
Date Collected: 09/23/19 14:30
Date Received: 09/24/19 09:20

Lab Sample ID: 680-174487-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589008	10/03/19 17:11	Y1S	TAL SAV
	Instrument ID: CMSB									

Laboratory References:
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-174487-1
Project/Site: McClellan, Anniston, Alabama

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-20

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: McClellan, Anniston, Alabama

Job ID: 680-174487-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
9056A	Anions, Ion Chromatography	SW846	TAL SAV
350.1-1993 R2.0	Nitrogen, Ammonia	MCAWW	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5852
Cooler ID 1
Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	RSK-175 -MEE 3 - 40 ml vials, HCl	TOC - SW9060 3 - 40 mL amber VOA H2SO4	E300 Anions - SO4 and NO3 125 mL poly, none	4500-NH3 Ammonia 250 mL poly, H2SO4	SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw17	NS	mw	water	BP	9/23/19	10:21	X					
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw03	NS	mw	water	BP	9/23/19	12:11				X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw15	NS	mw	Water	BP	9/23/19	13:36	X			X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	TB #538	TB	TB	Water	Grab	9/23/19	2:30						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													

680-174487 Chain of Custody

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): Date/Time: 9/23/19 4:00pm Received by (Signature): FedEx

Relinquished by (Signature): Date/Time: 9-24-19 09:00 Received by (Signature):

0.3/0.2

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-174487-1

Login Number: 174487
List Number: 1
Creator: Mooken, Darmal

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-174693-1
Client Project/Site: Parcel 183(6),Training Area T6 (NF)

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Authorized for release by:
10/16/2019 5:50:06 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-174693-1
Project/Site: Parcel 183(6),Training Area T6 (NF)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-174693-1	CWM-183-MW08	Water	09/25/19 13:01	09/27/19 09:10	
680-174693-2	CWM-183-MW20	Water	09/25/19 11:31	09/27/19 09:10	
680-174693-3	CWM-183-MW25	Water	09/25/19 15:36	09/27/19 09:10	
680-174693-4	CWM-183-MW19	Water	09/25/19 09:51	09/27/19 09:10	
680-174693-5	CWM-183-MW11	Water	09/25/19 14:10	09/27/19 09:10	
680-174693-6	CWM-183-MW16	Water	09/24/19 13:51	09/27/19 09:10	
680-174693-9	CWM-183-MW28	Water	09/24/19 11:36	09/27/19 09:10	
680-174693-10	CWM-183-MW13	Water	09/26/19 09:35	09/27/19 09:10	
680-174693-11	CWM-183-MW23	Water	09/26/19 09:51	09/27/19 09:10	
680-174693-12	CWM-183-MW06	Water	09/25/19 16:10	09/27/19 09:10	
680-174693-13	CWM-183-MW31	Water	09/24/19 09:56	09/27/19 09:10	
680-174693-14	DUP #329	Water	09/24/19 00:00	09/27/19 09:10	
680-174693-15	DUP #330	Water	09/24/19 00:00	09/27/19 09:10	
680-174693-16	CMW-183-MW04	Water	09/26/19 11:45	09/27/19 09:10	
680-174693-17	TB # 539	Water	09/26/19 11:00	09/27/19 09:10	

Job ID: 680-174693-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE
Client: Matrix Environmental Services, LLC
Project: Parcel 183(6),Training Area T6 (NF)

Report Number: 680-174693-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 9/27/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

Receipt Exceptions

Not all containers submitted contained the proper preservative for their respective methods. For this reason, Method RSK 175 for sample CWM-183-MW-11 (680-174693-5) was cancelled.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CWM-183-MW08 (680-174693-1), CWM-183-MW20 (680-174693-2), CWM-183-MW25 (680-174693-3), CWM-183-MW19 (680-174693-4), CWM-183-MW16 (680-174693-6), CWM-183-MW28 (680-174693-9), CWM-183-MW13 (680-174693-10), CWM-183-MW23 (680-174693-11), CWM-183-MW06 (680-174693-12), CWM-183-MW31 (680-174693-13), DUP #329 (680-174693-14), DUP #330 (680-174693-15), CMW-183-MW04 (680-174693-16) and TB # 539 (680-174693-17) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/05/2019, 10/07/2019, 10/10/2019 and 10/14/2019.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-589432.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-589584.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-589587.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-590748.

The laboratory control sample duplicate (LCSD) for analytical batch 680-589432 recovered outside control limits for the following analytes: 1,2,4-Trimethylbenzene. This analyte was biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-590745 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane, 2,2-Dichloropropane and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-589587 recovered outside control limits for the following analyte: 1,2,4-Trimethylbenzene. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data have been reported.

Job ID: 680-174693-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-589584 recovered outside control limits for the following analyte(s): 2-Butanone (MEK). 2-Butanone (MEK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The following analyte(s) recovered outside control limits for the LCSD associated with analytical batch 680-589601: cis-1,3-Dichloropropene and Dichlorobromomethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 680-589601 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane and 4-Methyl-2-pentanone.

cis-1,2-Dichloroethene and Tetrachloroethene was detected above the reporting limit (RL) in the method blank associated with analytical batch 680-590268 as well as in the following sample: (MB 680-590268/9). All affected samples were re-analyzed outside of holding time. Both sets of data have been reported.

Reanalysis of the following samples were performed outside of the analytical holding time due to MB hits in analytes in the initial analysis : CWM-183-MW13 (680-174693-10), CWM-183-MW13 (680-174693-10[MS]), CWM-183-MW13 (680-174693-10[MSD]), CWM-183-MW23 (680-174693-11), CMW-183-MW04 (680-174693-16) and TB # 539 (680-174693-17).

Reanalysis of the following sample was performed outside of the analytical holding time due to sample internal standard failure in the initial analysis : CWM-183-MW06 (680-174693-12).

Reanalysis of the following samples were performed outside of the analytical holding time due to MB hits analytes in the initial analysis : CWM-183-MW08 (680-174693-1) and CWM-183-MW20 (680-174693-2).

The following samples were diluted to bring the concentration of target analytes within the calibration range: CWM-183-MW13 (680-174693-10) and CWM-183-MW23 (680-174693-11). Elevated reporting limits (RLs) are provided.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-590745 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-590268 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED GASES

Samples CWM-183-MW13 (680-174693-10), CWM-183-MW23 (680-174693-11), CWM-183-MW06 (680-174693-12), DUP #329 (680-174693-14) and CMW-183-MW04 (680-174693-16) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 10/04/2019, 10/09/2019 and 10/10/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples CWM-183-MW11 (680-174693-5), CWM-183-MW13 (680-174693-10), CWM-183-MW23 (680-174693-11), CWM-183-MW06 (680-174693-12), DUP #329 (680-174693-14) and CMW-183-MW04 (680-174693-16) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/01/2019.

The following samples had a pH of >2 and were adjusted in the laboratory to <2, per the SOP: CWM-183-MW11 (680-174693-5) and CMW-183-MW04 (680-174693-16)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW08
Date Collected: 09/25/19 13:01
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**9.8**	**J**	10	7.0	ug/L			10/07/19 21:55	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 21:55	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 21:55	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 21:55	1
Bromodichloromethane	0.44	U *	1.0	0.44	ug/L			10/07/19 21:55	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 21:55	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 21:55	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 21:55	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 21:55	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 21:55	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 21:55	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 21:55	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 21:55	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 21:55	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 21:55	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 21:55	1
cis-1,2-Dichloroethene	**0.76**	**J**	1.0	0.41	ug/L			10/07/19 21:55	1
cis-1,3-Dichloropropene	0.40	U *	1.0	0.40	ug/L			10/07/19 21:55	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 21:55	1
1,2-Dibromo-3-Chloropropane	1.1	U *	5.0	1.1	ug/L			10/07/19 21:55	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 21:55	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 21:55	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 21:55	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 21:55	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 21:55	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 21:55	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 21:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 21:55	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 21:55	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 21:55	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 21:55	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 21:55	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 21:55	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 21:55	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 21:55	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 21:55	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 21:55	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 21:55	1
4-Methyl-2-pentanone	2.1	U *	10	2.1	ug/L			10/07/19 21:55	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 21:55	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 21:55	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 21:55	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 21:55	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 21:55	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 21:55	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 21:55	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 21:55	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 21:55	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 21:55	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW08
Date Collected: 09/25/19 13:01
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 21:55	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 21:55	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 21:55	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 21:55	1
trans-1,2-Dichloroethene	**2.2**	**B**	1.0	0.37	ug/L			10/07/19 21:55	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 21:55	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 21:55	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 21:55	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 21:55	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 21:55	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 21:55	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 21:55	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 21:55	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 21:55	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 21:55	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 21:55	1
Vinyl chloride	**2.4**		1.0	0.50	ug/L			10/07/19 21:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*10/07/19 21:55*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*10/07/19 21:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*73 - 131*		*10/07/19 21:55*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*10/07/19 21:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			10/14/19 17:13	1
Benzene	0.43	U H	1.0	0.43	ug/L			10/14/19 17:13	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			10/14/19 17:13	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			10/14/19 17:13	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			10/14/19 17:13	1
Bromoform	0.43	U H	1.0	0.43	ug/L			10/14/19 17:13	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			10/14/19 17:13	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			10/14/19 17:13	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			10/14/19 17:13	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			10/14/19 17:13	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
Chloroform	0.50	U H	1.0	0.50	ug/L			10/14/19 17:13	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			10/14/19 17:13	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			10/14/19 17:13	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			10/14/19 17:13	1
cis-1,2-Dichloroethene	**0.75**	**J H**	1.0	0.41	ug/L			10/14/19 17:13	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			10/14/19 17:13	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			10/14/19 17:13	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			10/14/19 17:13	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			10/14/19 17:13	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			10/14/19 17:13	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			10/14/19 17:13	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW08
Date Collected: 09/25/19 13:01
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			10/14/19 17:13	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			10/14/19 17:13	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			10/14/19 17:13	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			10/14/19 17:13	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			10/14/19 17:13	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			10/14/19 17:13	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			10/14/19 17:13	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			10/14/19 17:13	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			10/14/19 17:13	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			10/14/19 17:13	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			10/14/19 17:13	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
2-Hexanone	2.0	U H	10	2.0	ug/L			10/14/19 17:13	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			10/14/19 17:13	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			10/14/19 17:13	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			10/14/19 17:13	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			10/14/19 17:13	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 17:13	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			10/14/19 17:13	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			10/14/19 17:13	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			10/14/19 17:13	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			10/14/19 17:13	1
Styrene	0.27	U H	1.0	0.27	ug/L			10/14/19 17:13	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			10/14/19 17:13	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 17:13	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			10/14/19 17:13	1
Tetrachloroethene	0.74	U H	1.0	0.74	ug/L			10/14/19 17:13	1
Toluene	0.48	U H	1.0	0.48	ug/L			10/14/19 17:13	1
trans-1,2-Dichloroethene	**2.0**	**H**	1.0	0.37	ug/L			10/14/19 17:13	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			10/14/19 17:13	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:13	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 17:13	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			10/14/19 17:13	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			10/14/19 17:13	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			10/14/19 17:13	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			10/14/19 17:13	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 17:13	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			10/14/19 17:13	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			10/14/19 17:13	1
Vinyl chloride	**1.8**	**H**	1.0	0.50	ug/L			10/14/19 17:13	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			10/14/19 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/14/19 17:13*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*10/14/19 17:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*10/14/19 17:13*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/19 17:13*	*1*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW20
Date Collected: 09/25/19 11:31
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 22:46	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:46	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 22:46	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 22:46	1
Bromodichloromethane	0.44	U *	1.0	0.44	ug/L			10/07/19 22:46	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 22:46	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:46	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 22:46	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 22:46	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 22:46	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 22:46	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:46	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 22:46	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 22:46	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 22:46	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 22:46	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.41	ug/L			10/07/19 22:46	1
cis-1,3-Dichloropropene	0.40	U *	1.0	0.40	ug/L			10/07/19 22:46	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 22:46	1
1,2-Dibromo-3-Chloropropane	1.1	U *	5.0	1.1	ug/L			10/07/19 22:46	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 22:46	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 22:46	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 22:46	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:46	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 22:46	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 22:46	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 22:46	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 22:46	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 22:46	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 22:46	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 22:46	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 22:46	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 22:46	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 22:46	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 22:46	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 22:46	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 22:46	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 22:46	1
4-Methyl-2-pentanone	2.1	U *	10	2.1	ug/L			10/07/19 22:46	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 22:46	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 22:46	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 22:46	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:46	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 22:46	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 22:46	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:46	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 22:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 22:46	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 22:46	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW20
Date Collected: 09/25/19 11:31
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:46	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 22:46	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 22:46	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:46	1
trans-1,2-Dichloroethene	**0.90**	**J B**	1.0	0.37	ug/L			10/07/19 22:46	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 22:46	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 22:46	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 22:46	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:46	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 22:46	1
Trichloroethene	**0.90**	**J**	1.0	0.48	ug/L			10/07/19 22:46	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 22:46	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 22:46	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:46	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 22:46	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 22:46	1
Vinyl chloride	**1.7**		1.0	0.50	ug/L			10/07/19 22:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/07/19 22:46*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*10/07/19 22:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*10/07/19 22:46*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/07/19 22:46*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			10/14/19 17:37	1
Benzene	0.43	U H	1.0	0.43	ug/L			10/14/19 17:37	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			10/14/19 17:37	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			10/14/19 17:37	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			10/14/19 17:37	1
Bromoform	0.43	U H	1.0	0.43	ug/L			10/14/19 17:37	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			10/14/19 17:37	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			10/14/19 17:37	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			10/14/19 17:37	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			10/14/19 17:37	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
Chloroform	0.50	U H	1.0	0.50	ug/L			10/14/19 17:37	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			10/14/19 17:37	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			10/14/19 17:37	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			10/14/19 17:37	1
cis-1,2-Dichloroethene	**1.3**	**H**	1.0	0.41	ug/L			10/14/19 17:37	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			10/14/19 17:37	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			10/14/19 17:37	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			10/14/19 17:37	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			10/14/19 17:37	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			10/14/19 17:37	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			10/14/19 17:37	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW20
Date Collected: 09/25/19 11:31
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			10/14/19 17:37	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			10/14/19 17:37	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			10/14/19 17:37	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			10/14/19 17:37	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			10/14/19 17:37	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			10/14/19 17:37	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			10/14/19 17:37	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			10/14/19 17:37	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			10/14/19 17:37	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			10/14/19 17:37	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			10/14/19 17:37	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
2-Hexanone	2.0	U H	10	2.0	ug/L			10/14/19 17:37	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			10/14/19 17:37	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			10/14/19 17:37	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			10/14/19 17:37	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			10/14/19 17:37	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 17:37	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			10/14/19 17:37	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			10/14/19 17:37	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			10/14/19 17:37	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			10/14/19 17:37	1
Styrene	0.27	U H	1.0	0.27	ug/L			10/14/19 17:37	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			10/14/19 17:37	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 17:37	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			10/14/19 17:37	1
Tetrachloroethene	0.74	U H	1.0	0.74	ug/L			10/14/19 17:37	1
Toluene	0.48	U H	1.0	0.48	ug/L			10/14/19 17:37	1
trans-1,2-Dichloroethene	**0.70**	**J H**	1.0	0.37	ug/L			10/14/19 17:37	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			10/14/19 17:37	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 17:37	1
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 17:37	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			10/14/19 17:37	1
Trichloroethene	**0.78**	**J H**	1.0	0.48	ug/L			10/14/19 17:37	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			10/14/19 17:37	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			10/14/19 17:37	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 17:37	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			10/14/19 17:37	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			10/14/19 17:37	1
Vinyl chloride	**1.6**	**H**	1.0	0.50	ug/L			10/14/19 17:37	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			10/14/19 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/14/19 17:37*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*10/14/19 17:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*10/14/19 17:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/19 17:37*	*1*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW25
Date Collected: 09/25/19 15:36
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 22:20	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:20	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 22:20	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 22:20	1
Bromodichloromethane	0.44	U *	1.0	0.44	ug/L			10/07/19 22:20	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 22:20	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:20	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 22:20	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 22:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 22:20	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 22:20	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:20	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 22:20	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 22:20	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 22:20	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 22:20	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 22:20	1
cis-1,3-Dichloropropene	0.40	U *	1.0	0.40	ug/L			10/07/19 22:20	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 22:20	1
1,2-Dibromo-3-Chloropropane	1.1	U *	5.0	1.1	ug/L			10/07/19 22:20	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 22:20	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 22:20	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 22:20	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:20	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 22:20	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 22:20	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 22:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 22:20	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 22:20	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 22:20	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 22:20	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 22:20	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 22:20	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 22:20	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 22:20	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 22:20	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 22:20	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 22:20	1
4-Methyl-2-pentanone	2.1	U *	10	2.1	ug/L			10/07/19 22:20	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 22:20	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 22:20	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 22:20	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:20	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 22:20	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 22:20	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:20	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 22:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 22:20	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 22:20	1

Client Sample ID: CWM-183-MW25
Lab Sample ID: 680-174693-3

Date Collected: 09/25/19 15:36
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:20	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 22:20	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 22:20	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:20	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 22:20	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 22:20	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 22:20	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 22:20	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:20	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 22:20	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 22:20	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 22:20	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 22:20	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:20	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 22:20	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 22:20	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 22:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/07/19 22:20*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*10/07/19 22:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*		*10/07/19 22:20*	*1*
Toluene-d8 (Surr)	*117*		*80 - 120*		*10/07/19 22:20*	*1*

Client Sample ID: CWM-183-MW19
Lab Sample ID: 680-174693-4

Date Collected: 09/25/19 09:51
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 23:11	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 23:11	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 23:11	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 23:11	1
Bromodichloromethane	0.44	U *	1.0	0.44	ug/L			10/07/19 23:11	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 23:11	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 23:11	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 23:11	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 23:11	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 23:11	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 23:11	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 23:11	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 23:11	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 23:11	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 23:11	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 23:11	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 23:11	1
cis-1,3-Dichloropropene	0.40	U *	1.0	0.40	ug/L			10/07/19 23:11	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 23:11	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW19
Date Collected: 09/25/19 09:51
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.1	U *	5.0	1.1	ug/L			10/07/19 23:11	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 23:11	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 23:11	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 23:11	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 23:11	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 23:11	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 23:11	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 23:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 23:11	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 23:11	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 23:11	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 23:11	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 23:11	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 23:11	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 23:11	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 23:11	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 23:11	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 23:11	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 23:11	1
4-Methyl-2-pentanone	2.1	U *	10	2.1	ug/L			10/07/19 23:11	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 23:11	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 23:11	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 23:11	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 23:11	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 23:11	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 23:11	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 23:11	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 23:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 23:11	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 23:11	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 23:11	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 23:11	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 23:11	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 23:11	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 23:11	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 23:11	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 23:11	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 23:11	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 23:11	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 23:11	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 23:11	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 23:11	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 23:11	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 23:11	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 23:11	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 23:11	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 23:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 23:11	1

Client Sample ID: CWM-183-MW19
Lab Sample ID: 680-174693-4
Date Collected: 09/25/19 09:51
Matrix: Water
Date Received: 09/27/19 09:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/07/19 23:11*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 122*		*10/07/19 23:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*		*10/07/19 23:11*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/07/19 23:11*	*1*

Client Sample ID: CWM-183-MW11
Lab Sample ID: 680-174693-5
Date Collected: 09/25/19 14:10
Matrix: Water
Date Received: 09/27/19 09:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.6**		1.0	0.50	mg/L			10/01/19 16:50	1
Total Organic Carbon - Quad	**3.6**		1.0	0.50	mg/L			10/01/19 16:50	1

Client Sample ID: CWM-183-MW16
Lab Sample ID: 680-174693-6
Date Collected: 09/24/19 13:51
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/05/19 21:51	1
Benzene	0.43	U	1.0	0.43	ug/L			10/05/19 21:51	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/05/19 21:51	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/05/19 21:51	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/05/19 21:51	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/05/19 21:51	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/05/19 21:51	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/05/19 21:51	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/05/19 21:51	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/05/19 21:51	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/05/19 21:51	1
Chloroethane	**3.0**	**J**	5.0	2.5	ug/L			10/05/19 21:51	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/05/19 21:51	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/05/19 21:51	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/05/19 21:51	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/05/19 21:51	1
cis-1,2-Dichloroethene	**9.1**		1.0	0.41	ug/L			10/05/19 21:51	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/05/19 21:51	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/05/19 21:51	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/05/19 21:51	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/05/19 21:51	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/05/19 21:51	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/05/19 21:51	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/05/19 21:51	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/05/19 21:51	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/05/19 21:51	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/05/19 21:51	1
1,2-Dichloroethane	**0.53**	**J**	1.0	0.50	ug/L			10/05/19 21:51	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/05/19 21:51	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/05/19 21:51	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/05/19 21:51	1

Client Sample ID: CWM-183-MW16
Lab Sample ID: 680-174693-6

Date Collected: 09/24/19 13:51
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/05/19 21:51	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/05/19 21:51	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/05/19 21:51	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/05/19 21:51	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/05/19 21:51	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/05/19 21:51	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/05/19 21:51	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/05/19 21:51	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/05/19 21:51	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/05/19 21:51	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/05/19 21:51	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/05/19 21:51	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/05/19 21:51	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/05/19 21:51	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/05/19 21:51	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/05/19 21:51	1
Styrene	0.27	U	1.0	0.27	ug/L			10/05/19 21:51	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/05/19 21:51	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/05/19 21:51	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/05/19 21:51	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/05/19 21:51	1
Toluene	0.48	U	1.0	0.48	ug/L			10/05/19 21:51	1
trans-1,2-Dichloroethene	**6.3**		1.0	0.37	ug/L			10/05/19 21:51	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/05/19 21:51	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/05/19 21:51	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/05/19 21:51	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/05/19 21:51	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/05/19 21:51	1
Trichloroethene	**16**		1.0	0.48	ug/L			10/05/19 21:51	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/05/19 21:51	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/05/19 21:51	1
1,2,4-Trimethylbenzene	0.47	U *	1.0	0.47	ug/L			10/05/19 21:51	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/05/19 21:51	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/05/19 21:51	1
Vinyl chloride	**9.4**		1.0	0.50	ug/L			10/05/19 21:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/05/19 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/05/19 21:51*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 122*		*10/05/19 21:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*10/05/19 21:51*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/05/19 21:51*	*1*

Client Sample ID: CWM-183-MW28
Lab Sample ID: 680-174693-9

Date Collected: 09/24/19 11:36
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 19:09	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW28
Date Collected: 09/24/19 11:36
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 19:09	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 19:09	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 19:09	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 19:09	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 19:09	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 19:09	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 19:09	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 19:09	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 19:09	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 19:09	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 19:09	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 19:09	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 19:09	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 19:09	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 19:09	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 19:09	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 19:09	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 19:09	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 19:09	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 19:09	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 19:09	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 19:09	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 19:09	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 19:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 19:09	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 19:09	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 19:09	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 19:09	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 19:09	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 19:09	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 19:09	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 19:09	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 19:09	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 19:09	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 19:09	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 19:09	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 19:09	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 19:09	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 19:09	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 19:09	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 19:09	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 19:09	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 19:09	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 19:09	1

Client Sample ID: CWM-183-MW28
Lab Sample ID: 680-174693-9

Date Collected: 09/24/19 11:36
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 19:09	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 19:09	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 19:09	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 19:09	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 19:09	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 19:09	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 19:09	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 19:09	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 19:09	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 19:09	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 19:09	1
1,2,4-Trimethylbenzene	0.47	U *	1.0	0.47	ug/L			10/07/19 19:09	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 19:09	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 19:09	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 19:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/07/19 19:09*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*10/07/19 19:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*10/07/19 19:09*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/07/19 19:09*	*1*

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-174693-10

Date Collected: 09/26/19 09:35
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L			10/10/19 20:17	5
Benzene	2.2	U	5.0	2.2	ug/L			10/10/19 20:17	5
Bromobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 20:17	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L			10/10/19 20:17	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L			10/10/19 20:17	5
Bromoform	2.2	U	5.0	2.2	ug/L			10/10/19 20:17	5
Bromomethane	13	U	25	13	ug/L			10/10/19 20:17	5
2-Butanone (MEK)	17	U	50	17	ug/L			10/10/19 20:17	5
Carbon disulfide	5.0	U	10	5.0	ug/L			10/10/19 20:17	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			10/10/19 20:17	5
Chlorobenzene	1.3	U	5.0	1.3	ug/L			10/10/19 20:17	5
Chloroethane	13	U	25	13	ug/L			10/10/19 20:17	5
Chloroform	2.5	U	5.0	2.5	ug/L			10/10/19 20:17	5
Chloromethane	2.0	U	5.0	2.0	ug/L			10/10/19 20:17	5
2-Chlorotoluene	1.4	U	5.0	1.4	ug/L			10/10/19 20:17	5
4-Chlorotoluene	2.3	U	5.0	2.3	ug/L			10/10/19 20:17	5
cis-1,2-Dichloroethene	**92**	**B**	5.0	2.1	ug/L			10/10/19 20:17	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L			10/10/19 20:17	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L			10/10/19 20:17	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L			10/10/19 20:17	5

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-174693-10
Date Collected: 09/26/19 09:35
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L			10/10/19 20:17	5
Dibromomethane	1.8	U	5.0	1.8	ug/L			10/10/19 20:17	5
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L			10/10/19 20:17	5
1,3-Dichlorobenzene	2.2	U	5.0	2.2	ug/L			10/10/19 20:17	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L			10/10/19 20:17	5
Dichlorodifluoromethane	3.0	U	5.0	3.0	ug/L			10/10/19 20:17	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L			10/10/19 20:17	5
1,2-Dichloroethane	2.5	U	5.0	2.5	ug/L			10/10/19 20:17	5
1,1-Dichloroethene	**1.9**	**J**	5.0	1.8	ug/L			10/10/19 20:17	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L			10/10/19 20:17	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L			10/10/19 20:17	5
2,2-Dichloropropane	1.9	U	5.0	1.9	ug/L			10/10/19 20:17	5
1,1-Dichloropropene	1.7	U	5.0	1.7	ug/L			10/10/19 20:17	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			10/10/19 20:17	5
Hexachlorobutadiene	13	U F1	25	13	ug/L			10/10/19 20:17	5
2-Hexanone	10	U	50	10	ug/L			10/10/19 20:17	5
Isopropylbenzene	1.8	U	5.0	1.8	ug/L			10/10/19 20:17	5
Methylene Chloride	13	U	25	13	ug/L			10/10/19 20:17	5
4-Methyl-2-pentanone	11	U	50	11	ug/L			10/10/19 20:17	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			10/10/19 20:17	5
m-Xylene & p-Xylene	1.8	U	5.0	1.8	ug/L			10/10/19 20:17	5
Naphthalene	13	U	25	13	ug/L			10/10/19 20:17	5
n-Butylbenzene	2.4	U	5.0	2.4	ug/L			10/10/19 20:17	5
N-Propylbenzene	1.9	U	5.0	1.9	ug/L			10/10/19 20:17	5
o-Xylene	1.2	U	5.0	1.2	ug/L			10/10/19 20:17	5
p-Isopropyltoluene	2.4	U	5.0	2.4	ug/L			10/10/19 20:17	5
sec-Butylbenzene	2.1	U	5.0	2.1	ug/L			10/10/19 20:17	5
Styrene	1.4	U	5.0	1.4	ug/L			10/10/19 20:17	5
tert-Butylbenzene	2.3	U	5.0	2.3	ug/L			10/10/19 20:17	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			10/10/19 20:17	5
1,1,2,2-Tetrachloroethane	3.1	U	5.0	3.1	ug/L			10/10/19 20:17	5
Tetrachloroethene	**7.2**	**B**	5.0	3.7	ug/L			10/10/19 20:17	5
Toluene	2.4	U	5.0	2.4	ug/L			10/10/19 20:17	5
trans-1,2-Dichloroethene	**6.2**		5.0	1.9	ug/L			10/10/19 20:17	5
trans-1,3-Dichloropropene	2.1	U	5.0	2.1	ug/L			10/10/19 20:17	5
1,2,3-Trichlorobenzene	13	U	25	13	ug/L			10/10/19 20:17	5
1,2,4-Trichlorobenzene	13	U	25	13	ug/L			10/10/19 20:17	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			10/10/19 20:17	5
1,1,2-Trichloroethane	1.7	U	5.0	1.7	ug/L			10/10/19 20:17	5
Trichloroethene	**38**		5.0	2.4	ug/L			10/10/19 20:17	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			10/10/19 20:17	5
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			10/10/19 20:17	5
1,2,4-Trimethylbenzene	2.4	U	5.0	2.4	ug/L			10/10/19 20:17	5
1,3,5-Trimethylbenzene	1.6	U	5.0	1.6	ug/L			10/10/19 20:17	5
Vinyl acetate	4.1	U	10	4.1	ug/L			10/10/19 20:17	5
Vinyl chloride	**56**		5.0	2.5	ug/L			10/10/19 20:17	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/10/19 20:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*10/10/19 20:17*	*5*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW13
Date Collected: 09/26/19 09:35
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*10/10/19 20:17*	*5*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*		*10/10/19 20:17*	*5*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/10/19 20:17*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U H	50	35	ug/L			10/14/19 18:47	5
Benzene	2.2	U H	5.0	2.2	ug/L			10/14/19 18:47	5
Bromobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 18:47	5
Bromochloromethane	2.3	U H	5.0	2.3	ug/L			10/14/19 18:47	5
Bromodichloromethane	2.2	U H	5.0	2.2	ug/L			10/14/19 18:47	5
Bromoform	2.2	U H	5.0	2.2	ug/L			10/14/19 18:47	5
Bromomethane	13	U H	25	13	ug/L			10/14/19 18:47	5
2-Butanone (MEK)	17	U H	50	17	ug/L			10/14/19 18:47	5
Carbon disulfide	5.0	U H	10	5.0	ug/L			10/14/19 18:47	5
Carbon tetrachloride	1.7	U H	5.0	1.7	ug/L			10/14/19 18:47	5
Chlorobenzene	1.3	U H	5.0	1.3	ug/L			10/14/19 18:47	5
Chloroethane	13	U H	25	13	ug/L			10/14/19 18:47	5
Chloroform	2.5	U H	5.0	2.5	ug/L			10/14/19 18:47	5
Chloromethane	2.0	U H	5.0	2.0	ug/L			10/14/19 18:47	5
2-Chlorotoluene	1.4	U H	5.0	1.4	ug/L			10/14/19 18:47	5
4-Chlorotoluene	2.3	U H	5.0	2.3	ug/L			10/14/19 18:47	5
cis-1,2-Dichloroethene	**140**	**H F1**	5.0	2.1	ug/L			10/14/19 18:47	5
cis-1,3-Dichloropropene	2.0	U H	5.0	2.0	ug/L			10/14/19 18:47	5
Dibromochloromethane	1.6	U H	5.0	1.6	ug/L			10/14/19 18:47	5
1,2-Dibromo-3-Chloropropane	5.5	U H	25	5.5	ug/L			10/14/19 18:47	5
1,2-Dibromoethane	2.2	U H	5.0	2.2	ug/L			10/14/19 18:47	5
Dibromomethane	1.8	U H	5.0	1.8	ug/L			10/14/19 18:47	5
1,2-Dichlorobenzene	1.9	U H	5.0	1.9	ug/L			10/14/19 18:47	5
1,3-Dichlorobenzene	2.2	U H	5.0	2.2	ug/L			10/14/19 18:47	5
1,4-Dichlorobenzene	2.3	U H	5.0	2.3	ug/L			10/14/19 18:47	5
Dichlorodifluoromethane	3.0	U H	5.0	3.0	ug/L			10/14/19 18:47	5
1,1-Dichloroethane	1.9	U H	5.0	1.9	ug/L			10/14/19 18:47	5
1,2-Dichloroethane	2.5	U H	5.0	2.5	ug/L			10/14/19 18:47	5
1,1-Dichloroethene	**3.8**	**J H**	5.0	1.8	ug/L			10/14/19 18:47	5
1,2-Dichloropropane	3.4	U H	5.0	3.4	ug/L			10/14/19 18:47	5
1,3-Dichloropropane	1.7	U H	5.0	1.7	ug/L			10/14/19 18:47	5
2,2-Dichloropropane	1.9	U * H	5.0	1.9	ug/L			10/14/19 18:47	5
1,1-Dichloropropene	1.7	U H	5.0	1.7	ug/L			10/14/19 18:47	5
Ethylbenzene	1.7	U H	5.0	1.7	ug/L			10/14/19 18:47	5
Hexachlorobutadiene	13	U H	25	13	ug/L			10/14/19 18:47	5
2-Hexanone	10	U H	50	10	ug/L			10/14/19 18:47	5
Isopropylbenzene	1.8	U H	5.0	1.8	ug/L			10/14/19 18:47	5
Methylene Chloride	13	U H	25	13	ug/L			10/14/19 18:47	5
4-Methyl-2-pentanone	11	U H	50	11	ug/L			10/14/19 18:47	5
Methyl tert-butyl ether	1.5	U H	50	1.5	ug/L			10/14/19 18:47	5
m-Xylene & p-Xylene	1.8	U H	5.0	1.8	ug/L			10/14/19 18:47	5
Naphthalene	13	U H	25	13	ug/L			10/14/19 18:47	5
n-Butylbenzene	2.4	U H	5.0	2.4	ug/L			10/14/19 18:47	5

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-174693-10
Date Collected: 09/26/19 09:35
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	1.9	U H	5.0	1.9	ug/L			10/14/19 18:47	5
o-Xylene	1.2	U H	5.0	1.2	ug/L			10/14/19 18:47	5
p-Isopropyltoluene	2.4	U H	5.0	2.4	ug/L			10/14/19 18:47	5
sec-Butylbenzene	2.1	U H	5.0	2.1	ug/L			10/14/19 18:47	5
Styrene	1.4	U H	5.0	1.4	ug/L			10/14/19 18:47	5
tert-Butylbenzene	2.3	U H	5.0	2.3	ug/L			10/14/19 18:47	5
1,1,1,2-Tetrachloroethane	1.9	U H	5.0	1.9	ug/L			10/14/19 18:47	5
1,1,2,2-Tetrachloroethane	3.1	U H	5.0	3.1	ug/L			10/14/19 18:47	5
Tetrachloroethene	3.7	U * H	5.0	3.7	ug/L			10/14/19 18:47	5
Toluene	2.4	U H	5.0	2.4	ug/L			10/14/19 18:47	5
trans-1,2-Dichloroethene	**6.4**	**H**	5.0	1.9	ug/L			10/14/19 18:47	5
trans-1,3-Dichloropropene	2.1	U H	5.0	2.1	ug/L			10/14/19 18:47	5
1,2,3-Trichlorobenzene	13	U H	25	13	ug/L			10/14/19 18:47	5
1,2,4-Trichlorobenzene	13	U H	25	13	ug/L			10/14/19 18:47	5
1,1,1-Trichloroethane	1.9	U * H	5.0	1.9	ug/L			10/14/19 18:47	5
1,1,2-Trichloroethane	1.7	U H	5.0	1.7	ug/L			10/14/19 18:47	5
Trichloroethene	**68**	**H F1**	5.0	2.4	ug/L			10/14/19 18:47	5
Trichlorofluoromethane	2.1	U H	5.0	2.1	ug/L			10/14/19 18:47	5
1,2,3-Trichloropropane	2.0	U H	5.0	2.0	ug/L			10/14/19 18:47	5
1,2,4-Trimethylbenzene	2.4	U H	5.0	2.4	ug/L			10/14/19 18:47	5
1,3,5-Trimethylbenzene	1.6	U H	5.0	1.6	ug/L			10/14/19 18:47	5
Vinyl acetate	4.1	U H	10	4.1	ug/L			10/14/19 18:47	5
Vinyl chloride	**38**	**H F1**	5.0	2.5	ug/L			10/14/19 18:47	5
Xylenes, Total	1.2	U H	5.0	1.2	ug/L			10/14/19 18:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*10/14/19 18:47*	*5*
Dibromofluoromethane (Surr)	*112*		*80 - 122*		*10/14/19 18:47*	*5*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*		*10/14/19 18:47*	*5*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/14/19 18:47*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**14**		1.1	0.55	ug/L			10/10/19 18:21	1
Ethene	**32**		1.0	0.50	ug/L			10/10/19 18:21	1
Methane (TCD)	**1700**		390	39	ug/L			10/10/19 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.89**	**J**	1.0	0.50	mg/L			10/01/19 17:40	1
Total Organic Carbon - Quad	**0.89**	**J**	1.0	0.50	mg/L			10/01/19 17:40	1

Client Sample ID: CWM-183-MW23
Lab Sample ID: 680-174693-11
Date Collected: 09/26/19 09:51
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3500	U	5000	3500	ug/L			10/10/19 20:43	500
Benzene	220	U	500	220	ug/L			10/10/19 20:43	500
Bromobenzene	250	U	500	250	ug/L			10/10/19 20:43	500

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW23
Date Collected: 09/26/19 09:51
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	230	U	500	230	ug/L			10/10/19 20:43	500
Bromodichloromethane	220	U	500	220	ug/L			10/10/19 20:43	500
Bromoform	220	U	500	220	ug/L			10/10/19 20:43	500
Bromomethane	1300	U	2500	1300	ug/L			10/10/19 20:43	500
2-Butanone (MEK)	1700	U	5000	1700	ug/L			10/10/19 20:43	500
Carbon disulfide	500	U	1000	500	ug/L			10/10/19 20:43	500
Carbon tetrachloride	170	U	500	170	ug/L			10/10/19 20:43	500
Chlorobenzene	130	U	500	130	ug/L			10/10/19 20:43	500
Chloroethane	1300	U	2500	1300	ug/L			10/10/19 20:43	500
Chloroform	250	U	500	250	ug/L			10/10/19 20:43	500
Chloromethane	200	U	500	200	ug/L			10/10/19 20:43	500
2-Chlorotoluene	140	U	500	140	ug/L			10/10/19 20:43	500
4-Chlorotoluene	230	U	500	230	ug/L			10/10/19 20:43	500
cis-1,2-Dichloroethene	**10000**	**B**	500	210	ug/L			10/10/19 20:43	500
cis-1,3-Dichloropropene	200	U	500	200	ug/L			10/10/19 20:43	500
Dibromochloromethane	160	U	500	160	ug/L			10/10/19 20:43	500
1,2-Dibromo-3-Chloropropane	550	U	2500	550	ug/L			10/10/19 20:43	500
1,2-Dibromoethane	220	U	500	220	ug/L			10/10/19 20:43	500
Dibromomethane	180	U	500	180	ug/L			10/10/19 20:43	500
1,2-Dichlorobenzene	190	U	500	190	ug/L			10/10/19 20:43	500
1,3-Dichlorobenzene	220	U	500	220	ug/L			10/10/19 20:43	500
1,4-Dichlorobenzene	230	U	500	230	ug/L			10/10/19 20:43	500
Dichlorodifluoromethane	300	U	500	300	ug/L			10/10/19 20:43	500
1,1-Dichloroethane	190	U	500	190	ug/L			10/10/19 20:43	500
1,2-Dichloroethane	250	U	500	250	ug/L			10/10/19 20:43	500
1,1-Dichloroethene	180	U	500	180	ug/L			10/10/19 20:43	500
1,2-Dichloropropane	340	U	500	340	ug/L			10/10/19 20:43	500
1,3-Dichloropropane	170	U	500	170	ug/L			10/10/19 20:43	500
2,2-Dichloropropane	190	U	500	190	ug/L			10/10/19 20:43	500
1,1-Dichloropropene	170	U	500	170	ug/L			10/10/19 20:43	500
Ethylbenzene	170	U	500	170	ug/L			10/10/19 20:43	500
Hexachlorobutadiene	1300	U	2500	1300	ug/L			10/10/19 20:43	500
2-Hexanone	1000	U	5000	1000	ug/L			10/10/19 20:43	500
Isopropylbenzene	180	U	500	180	ug/L			10/10/19 20:43	500
Methylene Chloride	1300	U	2500	1300	ug/L			10/10/19 20:43	500
4-Methyl-2-pentanone	1100	U	5000	1100	ug/L			10/10/19 20:43	500
Methyl tert-butyl ether	150	U	5000	150	ug/L			10/10/19 20:43	500
m-Xylene & p-Xylene	180	U	500	180	ug/L			10/10/19 20:43	500
Naphthalene	1300	U	2500	1300	ug/L			10/10/19 20:43	500
n-Butylbenzene	240	U	500	240	ug/L			10/10/19 20:43	500
N-Propylbenzene	190	U	500	190	ug/L			10/10/19 20:43	500
o-Xylene	120	U	500	120	ug/L			10/10/19 20:43	500
p-Isopropyltoluene	240	U	500	240	ug/L			10/10/19 20:43	500
sec-Butylbenzene	210	U	500	210	ug/L			10/10/19 20:43	500
Styrene	140	U	500	140	ug/L			10/10/19 20:43	500
tert-Butylbenzene	230	U	500	230	ug/L			10/10/19 20:43	500
1,1,1,2-Tetrachloroethane	190	U	500	190	ug/L			10/10/19 20:43	500
1,1,2,2-Tetrachloroethane	310	U	500	310	ug/L			10/10/19 20:43	500
Tetrachloroethene	**780**	**B**	500	370	ug/L			10/10/19 20:43	500

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW23
Date Collected: 09/26/19 09:51
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	240	U	500	240	ug/L			10/10/19 20:43	500
trans-1,2-Dichloroethene	**440**	**J**	500	190	ug/L			10/10/19 20:43	500
trans-1,3-Dichloropropene	210	U	500	210	ug/L			10/10/19 20:43	500
1,2,3-Trichlorobenzene	1300	U	2500	1300	ug/L			10/10/19 20:43	500
1,2,4-Trichlorobenzene	1300	U	2500	1300	ug/L			10/10/19 20:43	500
1,1,1-Trichloroethane	190	U	500	190	ug/L			10/10/19 20:43	500
1,1,2-Trichloroethane	170	U	500	170	ug/L			10/10/19 20:43	500
Trichloroethene	240	U	500	240	ug/L			10/10/19 20:43	500
Trichlorofluoromethane	210	U	500	210	ug/L			10/10/19 20:43	500
1,2,3-Trichloropropane	200	U	500	200	ug/L			10/10/19 20:43	500
1,2,4-Trimethylbenzene	240	U	500	240	ug/L			10/10/19 20:43	500
1,3,5-Trimethylbenzene	160	U	500	160	ug/L			10/10/19 20:43	500
Vinyl acetate	410	U	1000	410	ug/L			10/10/19 20:43	500
Vinyl chloride	**680**		500	250	ug/L			10/10/19 20:43	500
Xylenes, Total	120	U	500	120	ug/L			10/10/19 20:43	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*10/10/19 20:43*	*500*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*10/10/19 20:43*	*500*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*10/10/19 20:43*	*500*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/10/19 20:43*	*500*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3500	U H	5000	3500	ug/L			10/14/19 19:11	500
Benzene	220	U H	500	220	ug/L			10/14/19 19:11	500
Bromobenzene	250	U H	500	250	ug/L			10/14/19 19:11	500
Bromochloromethane	230	U H	500	230	ug/L			10/14/19 19:11	500
Bromodichloromethane	220	U H	500	220	ug/L			10/14/19 19:11	500
Bromoform	220	U H	500	220	ug/L			10/14/19 19:11	500
Bromomethane	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
2-Butanone (MEK)	1700	U H	5000	1700	ug/L			10/14/19 19:11	500
Carbon disulfide	500	U H	1000	500	ug/L			10/14/19 19:11	500
Carbon tetrachloride	170	U H	500	170	ug/L			10/14/19 19:11	500
Chlorobenzene	130	U H	500	130	ug/L			10/14/19 19:11	500
Chloroethane	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
Chloroform	250	U H	500	250	ug/L			10/14/19 19:11	500
Chloromethane	200	U H	500	200	ug/L			10/14/19 19:11	500
2-Chlorotoluene	140	U H	500	140	ug/L			10/14/19 19:11	500
4-Chlorotoluene	230	U H	500	230	ug/L			10/14/19 19:11	500
cis-1,2-Dichloroethene	**10000**	**H**	500	210	ug/L			10/14/19 19:11	500
cis-1,3-Dichloropropene	200	U H	500	200	ug/L			10/14/19 19:11	500
Dibromochloromethane	160	U H	500	160	ug/L			10/14/19 19:11	500
1,2-Dibromo-3-Chloropropane	550	U H	2500	550	ug/L			10/14/19 19:11	500
1,2-Dibromoethane	220	U H	500	220	ug/L			10/14/19 19:11	500
Dibromomethane	180	U H	500	180	ug/L			10/14/19 19:11	500
1,2-Dichlorobenzene	190	U H	500	190	ug/L			10/14/19 19:11	500
1,3-Dichlorobenzene	220	U H	500	220	ug/L			10/14/19 19:11	500
1,4-Dichlorobenzene	230	U H	500	230	ug/L			10/14/19 19:11	500
Dichlorodifluoromethane	300	U H	500	300	ug/L			10/14/19 19:11	500

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW23
Date Collected: 09/26/19 09:51
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	190	U H	500	190	ug/L			10/14/19 19:11	500
1,2-Dichloroethane	250	U H	500	250	ug/L			10/14/19 19:11	500
1,1-Dichloroethene	180	U H	500	180	ug/L			10/14/19 19:11	500
1,2-Dichloropropane	340	U H	500	340	ug/L			10/14/19 19:11	500
1,3-Dichloropropane	170	U H	500	170	ug/L			10/14/19 19:11	500
2,2-Dichloropropane	190	U * H	500	190	ug/L			10/14/19 19:11	500
1,1-Dichloropropene	170	U H	500	170	ug/L			10/14/19 19:11	500
Ethylbenzene	170	U H	500	170	ug/L			10/14/19 19:11	500
Hexachlorobutadiene	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
2-Hexanone	1000	U H	5000	1000	ug/L			10/14/19 19:11	500
Isopropylbenzene	180	U H	500	180	ug/L			10/14/19 19:11	500
Methylene Chloride	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
4-Methyl-2-pentanone	1100	U H	5000	1100	ug/L			10/14/19 19:11	500
Methyl tert-butyl ether	150	U H	5000	150	ug/L			10/14/19 19:11	500
m-Xylene & p-Xylene	180	U H	500	180	ug/L			10/14/19 19:11	500
Naphthalene	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
n-Butylbenzene	240	U H	500	240	ug/L			10/14/19 19:11	500
N-Propylbenzene	190	U H	500	190	ug/L			10/14/19 19:11	500
o-Xylene	120	U H	500	120	ug/L			10/14/19 19:11	500
p-Isopropyltoluene	240	U H	500	240	ug/L			10/14/19 19:11	500
sec-Butylbenzene	210	U H	500	210	ug/L			10/14/19 19:11	500
Styrene	140	U H	500	140	ug/L			10/14/19 19:11	500
tert-Butylbenzene	230	U H	500	230	ug/L			10/14/19 19:11	500
1,1,1,2-Tetrachloroethane	190	U H	500	190	ug/L			10/14/19 19:11	500
1,1,2,2-Tetrachloroethane	310	U H	500	310	ug/L			10/14/19 19:11	500
Tetrachloroethene	370	U * H	500	370	ug/L			10/14/19 19:11	500
Toluene	240	U H	500	240	ug/L			10/14/19 19:11	500
trans-1,2-Dichloroethene	**370**	**J H**	500	190	ug/L			10/14/19 19:11	500
trans-1,3-Dichloropropene	210	U H	500	210	ug/L			10/14/19 19:11	500
1,2,3-Trichlorobenzene	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
1,2,4-Trichlorobenzene	1300	U H	2500	1300	ug/L			10/14/19 19:11	500
1,1,1-Trichloroethane	190	U * H	500	190	ug/L			10/14/19 19:11	500
1,1,2-Trichloroethane	170	U H	500	170	ug/L			10/14/19 19:11	500
Trichloroethene	240	U H	500	240	ug/L			10/14/19 19:11	500
Trichlorofluoromethane	210	U H	500	210	ug/L			10/14/19 19:11	500
1,2,3-Trichloropropane	200	U H	500	200	ug/L			10/14/19 19:11	500
1,2,4-Trimethylbenzene	240	U H	500	240	ug/L			10/14/19 19:11	500
1,3,5-Trimethylbenzene	160	U H	500	160	ug/L			10/14/19 19:11	500
Vinyl acetate	410	U H	1000	410	ug/L			10/14/19 19:11	500
Vinyl chloride	**460**	**J H**	500	250	ug/L			10/14/19 19:11	500
Xylenes, Total	120	U H	500	120	ug/L			10/14/19 19:11	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*10/14/19 19:11*	*500*
Dibromofluoromethane (Surr)	*112*		*80 - 122*		*10/14/19 19:11*	*500*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*10/14/19 19:11*	*500*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/14/19 19:11*	*500*

Client Sample ID: CWM-183-MW23
Lab Sample ID: 680-174693-11
Date Collected: 09/26/19 09:51
Matrix: Water
Date Received: 09/27/19 09:10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	3.6		1.1	0.55	ug/L			10/10/19 16:48	1
Ethene	270		1.0	0.50	ug/L			10/10/19 16:48	1
Methane	6500	E	0.58	0.29	ug/L			10/10/19 16:48	1
Methane (TCD)	6600		390	39	ug/L			10/10/19 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	47		1.0	0.50	mg/L			10/01/19 18:30	1
Total Organic Carbon - Quad	47		1.0	0.50	mg/L			10/01/19 18:30	1

Client Sample ID: CWM-183-MW06
Lab Sample ID: 680-174693-12
Date Collected: 09/25/19 16:10
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U *	10	7.0	ug/L			10/07/19 23:37	1
Benzene	0.43	U *	1.0	0.43	ug/L			10/07/19 23:37	1
Bromobenzene	0.50	U *	1.0	0.50	ug/L			10/07/19 23:37	1
Bromochloromethane	0.45	U *	1.0	0.45	ug/L			10/07/19 23:37	1
Bromodichloromethane	0.44	U *	1.0	0.44	ug/L			10/07/19 23:37	1
Bromoform	0.43	U *	1.0	0.43	ug/L			10/07/19 23:37	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
2-Butanone (MEK)	3.4	U *	10	3.4	ug/L			10/07/19 23:37	1
Carbon disulfide	1.0	U *	2.0	1.0	ug/L			10/07/19 23:37	1
Carbon tetrachloride	0.33	U *	1.0	0.33	ug/L			10/07/19 23:37	1
Chlorobenzene	0.26	U *	1.0	0.26	ug/L			10/07/19 23:37	1
Chloroethane	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
Chloroform	0.50	U *	1.0	0.50	ug/L			10/07/19 23:37	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			10/07/19 23:37	1
2-Chlorotoluene	0.27	U *	1.0	0.27	ug/L			10/07/19 23:37	1
4-Chlorotoluene	0.45	U *	1.0	0.45	ug/L			10/07/19 23:37	1
cis-1,2-Dichloroethene	0.41	U *	1.0	0.41	ug/L			10/07/19 23:37	1
cis-1,3-Dichloropropene	0.40	U *	1.0	0.40	ug/L			10/07/19 23:37	1
Dibromochloromethane	0.32	U *	1.0	0.32	ug/L			10/07/19 23:37	1
1,2-Dibromo-3-Chloropropane	1.1	U *	5.0	1.1	ug/L			10/07/19 23:37	1
1,2-Dibromoethane	0.44	U *	1.0	0.44	ug/L			10/07/19 23:37	1
Dibromomethane	0.35	U *	1.0	0.35	ug/L			10/07/19 23:37	1
1,2-Dichlorobenzene	0.37	U *	1.0	0.37	ug/L			10/07/19 23:37	1
1,3-Dichlorobenzene	0.43	U *	1.0	0.43	ug/L			10/07/19 23:37	1
1,4-Dichlorobenzene	0.46	U *	1.0	0.46	ug/L			10/07/19 23:37	1
Dichlorodifluoromethane	0.60	U *	1.0	0.60	ug/L			10/07/19 23:37	1
1,1-Dichloroethane	0.38	U *	1.0	0.38	ug/L			10/07/19 23:37	1
1,2-Dichloroethane	0.50	U *	1.0	0.50	ug/L			10/07/19 23:37	1
1,1-Dichloroethene	0.36	U *	1.0	0.36	ug/L			10/07/19 23:37	1
1,2-Dichloropropane	0.67	U *	1.0	0.67	ug/L			10/07/19 23:37	1
1,3-Dichloropropane	0.34	U *	1.0	0.34	ug/L			10/07/19 23:37	1
2,2-Dichloropropane	0.37	U *	1.0	0.37	ug/L			10/07/19 23:37	1
1,1-Dichloropropene	0.34	U *	1.0	0.34	ug/L			10/07/19 23:37	1
Ethylbenzene	0.33	U *	1.0	0.33	ug/L			10/07/19 23:37	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW06
Date Collected: 09/25/19 16:10
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
2-Hexanone	2.0	U *	10	2.0	ug/L			10/07/19 23:37	1
Isopropylbenzene	0.35	U *	1.0	0.35	ug/L			10/07/19 23:37	1
Methylene Chloride	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
4-Methyl-2-pentanone	2.1	U *	10	2.1	ug/L			10/07/19 23:37	1
Methyl tert-butyl ether	0.30	U *	10	0.30	ug/L			10/07/19 23:37	1
m-Xylene & p-Xylene	0.35	U *	1.0	0.35	ug/L			10/07/19 23:37	1
Naphthalene	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
n-Butylbenzene	0.47	U *	1.0	0.47	ug/L			10/07/19 23:37	1
N-Propylbenzene	0.38	U *	1.0	0.38	ug/L			10/07/19 23:37	1
o-Xylene	0.23	U *	1.0	0.23	ug/L			10/07/19 23:37	1
p-Isopropyltoluene	0.48	U *	1.0	0.48	ug/L			10/07/19 23:37	1
sec-Butylbenzene	0.42	U *	1.0	0.42	ug/L			10/07/19 23:37	1
Styrene	0.27	U *	1.0	0.27	ug/L			10/07/19 23:37	1
tert-Butylbenzene	0.45	U *	1.0	0.45	ug/L			10/07/19 23:37	1
1,1,1,2-Tetrachloroethane	0.37	U *	1.0	0.37	ug/L			10/07/19 23:37	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			10/07/19 23:37	1
Tetrachloroethene	0.74	U *	1.0	0.74	ug/L			10/07/19 23:37	1
Toluene	0.48	U *	1.0	0.48	ug/L			10/07/19 23:37	1
trans-1,2-Dichloroethene	0.37	U *	1.0	0.37	ug/L			10/07/19 23:37	1
trans-1,3-Dichloropropene	0.42	U *	1.0	0.42	ug/L			10/07/19 23:37	1
1,2,3-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
1,2,4-Trichlorobenzene	2.5	U *	5.0	2.5	ug/L			10/07/19 23:37	1
1,1,1-Trichloroethane	0.37	U *	1.0	0.37	ug/L			10/07/19 23:37	1
1,1,2-Trichloroethane	0.33	U *	1.0	0.33	ug/L			10/07/19 23:37	1
Trichloroethene	0.48	U *	1.0	0.48	ug/L			10/07/19 23:37	1
Trichlorofluoromethane	0.42	U *	1.0	0.42	ug/L			10/07/19 23:37	1
1,2,3-Trichloropropane	0.39	U *	1.0	0.39	ug/L			10/07/19 23:37	1
1,2,4-Trimethylbenzene	0.47	U *	1.0	0.47	ug/L			10/07/19 23:37	1
1,3,5-Trimethylbenzene	0.31	U *	1.0	0.31	ug/L			10/07/19 23:37	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			10/07/19 23:37	1
Vinyl chloride	0.50	U *	1.0	0.50	ug/L			10/07/19 23:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*	*	*80 - 120*		*10/07/19 23:37*	*1*
Dibromofluoromethane (Surr)	*95*	*	*80 - 122*		*10/07/19 23:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*	*	*73 - 131*		*10/07/19 23:37*	*1*
Toluene-d8 (Surr)	*113*	*	*80 - 120*		*10/07/19 23:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			10/14/19 18:01	1
Benzene	0.43	U H	1.0	0.43	ug/L			10/14/19 18:01	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			10/14/19 18:01	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			10/14/19 18:01	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			10/14/19 18:01	1
Bromoform	0.43	U H	1.0	0.43	ug/L			10/14/19 18:01	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			10/14/19 18:01	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW06
Date Collected: 09/25/19 16:10
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			10/14/19 18:01	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			10/14/19 18:01	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			10/14/19 18:01	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1
Chloroform	0.50	U H	1.0	0.50	ug/L			10/14/19 18:01	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			10/14/19 18:01	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			10/14/19 18:01	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			10/14/19 18:01	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			10/14/19 18:01	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			10/14/19 18:01	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			10/14/19 18:01	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			10/14/19 18:01	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			10/14/19 18:01	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			10/14/19 18:01	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			10/14/19 18:01	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			10/14/19 18:01	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			10/14/19 18:01	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			10/14/19 18:01	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			10/14/19 18:01	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			10/14/19 18:01	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			10/14/19 18:01	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			10/14/19 18:01	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			10/14/19 18:01	1
2,2-Dichloropropane	0.37	U H	1.0	0.37	ug/L			10/14/19 18:01	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			10/14/19 18:01	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			10/14/19 18:01	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1
2-Hexanone	2.0	U H	10	2.0	ug/L			10/14/19 18:01	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			10/14/19 18:01	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			10/14/19 18:01	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			10/14/19 18:01	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			10/14/19 18:01	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 18:01	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			10/14/19 18:01	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			10/14/19 18:01	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			10/14/19 18:01	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			10/14/19 18:01	1
Styrene	0.27	U H	1.0	0.27	ug/L			10/14/19 18:01	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			10/14/19 18:01	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 18:01	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			10/14/19 18:01	1
Tetrachloroethene	0.74	U H	1.0	0.74	ug/L			10/14/19 18:01	1
Toluene	0.48	U H	1.0	0.48	ug/L			10/14/19 18:01	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			10/14/19 18:01	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			10/14/19 18:01	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 18:01	1

Client Sample ID: CWM-183-MW06
Lab Sample ID: 680-174693-12
Date Collected: 09/25/19 16:10
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 18:01	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			10/14/19 18:01	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			10/14/19 18:01	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			10/14/19 18:01	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			10/14/19 18:01	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 18:01	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			10/14/19 18:01	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			10/14/19 18:01	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			10/14/19 18:01	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			10/14/19 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/14/19 18:01*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*10/14/19 18:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*		*10/14/19 18:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/14/19 18:01*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**3.8**		1.1	0.55	ug/L			10/09/19 13:08	1
Ethene	0.50	U	1.0	0.50	ug/L			10/09/19 13:08	1
Methane (TCD)	**640**		390	39	ug/L			10/09/19 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			10/01/19 18:48	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			10/01/19 18:48	1

Client Sample ID: CWM-183-MW31
Lab Sample ID: 680-174693-13
Date Collected: 09/24/19 09:56
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 22:16	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:16	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 22:16	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 22:16	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 22:16	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 22:16	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
2-Butanone (MEK)	3.4	U *	10	3.4	ug/L			10/07/19 22:16	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 22:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 22:16	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 22:16	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 22:16	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 22:16	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 22:16	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 22:16	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 22:16	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW31
Date Collected: 09/24/19 09:56
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 22:16	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 22:16	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 22:16	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 22:16	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 22:16	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 22:16	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:16	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 22:16	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 22:16	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 22:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 22:16	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 22:16	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 22:16	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 22:16	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 22:16	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 22:16	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 22:16	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 22:16	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 22:16	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 22:16	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 22:16	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 22:16	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:16	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 22:16	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 22:16	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:16	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 22:16	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 22:16	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 22:16	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:16	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 22:16	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 22:16	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:16	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 22:16	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 22:16	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 22:16	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:16	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 22:16	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 22:16	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 22:16	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 22:16	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:16	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 22:16	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 22:16	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 22:16	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW31

Lab Sample ID: 680-174693-13

Date Collected: 09/24/19 09:56
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*10/07/19 22:16*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 122*		*10/07/19 22:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*73 - 131*		*10/07/19 22:16*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*10/07/19 22:16*	*1*

Client Sample ID: DUP #329

Lab Sample ID: 680-174693-14

Date Collected: 09/24/19 00:00
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 21:52	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 21:52	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 21:52	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 21:52	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 21:52	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 21:52	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
2-Butanone (MEK)	3.4	U *	10	3.4	ug/L			10/07/19 21:52	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 21:52	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 21:52	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 21:52	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 21:52	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 21:52	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 21:52	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 21:52	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 21:52	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 21:52	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 21:52	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 21:52	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 21:52	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 21:52	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 21:52	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 21:52	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 21:52	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 21:52	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 21:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 21:52	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 21:52	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 21:52	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 21:52	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 21:52	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 21:52	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 21:52	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 21:52	1

Client Sample ID: DUP #329
Lab Sample ID: 680-174693-14

Date Collected: 09/24/19 00:00
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 21:52	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 21:52	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 21:52	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 21:52	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 21:52	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 21:52	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 21:52	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 21:52	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 21:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 21:52	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 21:52	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 21:52	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 21:52	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 21:52	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 21:52	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 21:52	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 21:52	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 21:52	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 21:52	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 21:52	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 21:52	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 21:52	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 21:52	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 21:52	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 21:52	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 21:52	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 21:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/07/19 21:52*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 122*		*10/07/19 21:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*73 - 131*		*10/07/19 21:52*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/07/19 21:52*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			10/04/19 17:42	1
Ethene	0.50	U	1.0	0.50	ug/L			10/04/19 17:42	1
Methane (TCD)	**4600**		390	39	ug/L			10/04/19 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.8**		1.0	0.50	mg/L			10/01/19 19:06	1
Total Organic Carbon - Quad	**2.8**		1.0	0.50	mg/L			10/01/19 19:06	1

Client: Matrix Environmental Services, LLC
Job ID: 680-174693-1
Project/Site: Parcel 183(6),Training Area T6 (NF)

Client Sample ID: DUP #330
Lab Sample ID: 680-174693-15
Date Collected: 09/24/19 00:00
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 22:40	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:40	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 22:40	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 22:40	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 22:40	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 22:40	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
2-Butanone (MEK)	3.4	U *	10	3.4	ug/L			10/07/19 22:40	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 22:40	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 22:40	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 22:40	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 22:40	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 22:40	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 22:40	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 22:40	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 22:40	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 22:40	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 22:40	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 22:40	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 22:40	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 22:40	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 22:40	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 22:40	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 22:40	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 22:40	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 22:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 22:40	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 22:40	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 22:40	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 22:40	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 22:40	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 22:40	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 22:40	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 22:40	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 22:40	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 22:40	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 22:40	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 22:40	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:40	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 22:40	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 22:40	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:40	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 22:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 22:40	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 22:40	1

Client Sample ID: DUP #330
Lab Sample ID: 680-174693-15
Date Collected: 09/24/19 00:00
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:40	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 22:40	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 22:40	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 22:40	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 22:40	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 22:40	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 22:40	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 22:40	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 22:40	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 22:40	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 22:40	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 22:40	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 22:40	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 22:40	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 22:40	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 22:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/07/19 22:40*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 122*		*10/07/19 22:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*73 - 131*		*10/07/19 22:40*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/07/19 22:40*	*1*

Client Sample ID: CMW-183-MW04
Lab Sample ID: 680-174693-16
Date Collected: 09/26/19 11:45
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/10/19 16:26	1
Benzene	0.43	U	1.0	0.43	ug/L			10/10/19 16:26	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/10/19 16:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/10/19 16:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/10/19 16:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/10/19 16:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/10/19 16:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/10/19 16:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/10/19 16:26	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/10/19 16:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/10/19 16:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/10/19 16:26	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/10/19 16:26	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/10/19 16:26	1
cis-1,2-Dichloroethene	**1.8**	**B**	1.0	0.41	ug/L			10/10/19 16:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/10/19 16:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/10/19 16:26	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CMW-183-MW04
Date Collected: 09/26/19 11:45
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/10/19 16:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/10/19 16:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/10/19 16:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/10/19 16:26	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/10/19 16:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/10/19 16:26	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/10/19 16:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/10/19 16:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/10/19 16:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/10/19 16:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/10/19 16:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/10/19 16:26	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/10/19 16:26	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/10/19 16:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/10/19 16:26	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/10/19 16:26	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/10/19 16:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/10/19 16:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/10/19 16:26	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/10/19 16:26	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/10/19 16:26	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/10/19 16:26	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/10/19 16:26	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/10/19 16:26	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/10/19 16:26	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/19 16:26	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/10/19 16:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/10/19 16:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/10/19 16:26	1
Tetrachloroethene	**1.8**	**B**	1.0	0.74	ug/L			10/10/19 16:26	1
Toluene	0.48	U	1.0	0.48	ug/L			10/10/19 16:26	1
trans-1,2-Dichloroethene	**0.58**	**J**	1.0	0.37	ug/L			10/10/19 16:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/10/19 16:26	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 16:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/10/19 16:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/10/19 16:26	1
Trichloroethene	**1.0**		1.0	0.48	ug/L			10/10/19 16:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/10/19 16:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/10/19 16:26	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/10/19 16:26	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/10/19 16:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/10/19 16:26	1
Vinyl chloride	**3.6**		1.0	0.50	ug/L			10/10/19 16:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/19 16:26	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CMW-183-MW04

Date Collected: 09/26/19 11:45
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-16

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/10/19 16:26*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*10/10/19 16:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*10/10/19 16:26*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/10/19 16:26*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			10/14/19 14:30	1
Benzene	0.43	U H	1.0	0.43	ug/L			10/14/19 14:30	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			10/14/19 14:30	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			10/14/19 14:30	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			10/14/19 14:30	1
Bromoform	0.43	U H	1.0	0.43	ug/L			10/14/19 14:30	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			10/14/19 14:30	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			10/14/19 14:30	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			10/14/19 14:30	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			10/14/19 14:30	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
Chloroform	0.50	U H	1.0	0.50	ug/L			10/14/19 14:30	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			10/14/19 14:30	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			10/14/19 14:30	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			10/14/19 14:30	1
cis-1,2-Dichloroethene	**1.1**	**H**	1.0	0.41	ug/L			10/14/19 14:30	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			10/14/19 14:30	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			10/14/19 14:30	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			10/14/19 14:30	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			10/14/19 14:30	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			10/14/19 14:30	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			10/14/19 14:30	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			10/14/19 14:30	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			10/14/19 14:30	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			10/14/19 14:30	1
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			10/14/19 14:30	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			10/14/19 14:30	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			10/14/19 14:30	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			10/14/19 14:30	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			10/14/19 14:30	1
2,2-Dichloropropane	0.37	U * H	1.0	0.37	ug/L			10/14/19 14:30	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			10/14/19 14:30	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			10/14/19 14:30	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
2-Hexanone	2.0	U H	10	2.0	ug/L			10/14/19 14:30	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			10/14/19 14:30	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			10/14/19 14:30	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			10/14/19 14:30	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			10/14/19 14:30	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 14:30	1

Client Sample ID: CMW-183-MW04
Lab Sample ID: 680-174693-16
Date Collected: 09/26/19 11:45
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			10/14/19 14:30	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			10/14/19 14:30	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			10/14/19 14:30	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			10/14/19 14:30	1
Styrene	0.27	U H	1.0	0.27	ug/L			10/14/19 14:30	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			10/14/19 14:30	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 14:30	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			10/14/19 14:30	1
Tetrachloroethene	0.74	U * H	1.0	0.74	ug/L			10/14/19 14:30	1
Toluene	0.48	U H	1.0	0.48	ug/L			10/14/19 14:30	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			10/14/19 14:30	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			10/14/19 14:30	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 14:30	1
1,1,1-Trichloroethane	0.37	U * H	1.0	0.37	ug/L			10/14/19 14:30	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			10/14/19 14:30	1
Trichloroethene	**0.61**	**J H**	1.0	0.48	ug/L			10/14/19 14:30	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			10/14/19 14:30	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			10/14/19 14:30	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 14:30	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			10/14/19 14:30	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			10/14/19 14:30	1
Vinyl chloride	**2.4**	**H**	1.0	0.50	ug/L			10/14/19 14:30	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			10/14/19 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/14/19 14:30*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*10/14/19 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*10/14/19 14:30*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*10/14/19 14:30*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**4.2**		1.1	0.55	ug/L			10/10/19 20:43	1
Ethene	**1.2**		1.0	0.50	ug/L			10/10/19 20:43	1
Methane	**290**		0.58	0.29	ug/L			10/10/19 20:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.8**		1.0	0.50	mg/L			10/01/19 19:24	1
Total Organic Carbon - Quad	**3.8**		1.0	0.50	mg/L			10/01/19 19:24	1

Client Sample ID: TB # 539
Lab Sample ID: 680-174693-17
Date Collected: 09/26/19 11:00
Matrix: Water
Date Received: 09/27/19 09:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/10/19 15:09	1
Benzene	0.43	U	1.0	0.43	ug/L			10/10/19 15:09	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/10/19 15:09	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: TB # 539
Date Collected: 09/26/19 11:00
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/10/19 15:09	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/10/19 15:09	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/10/19 15:09	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/10/19 15:09	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/10/19 15:09	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/10/19 15:09	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/10/19 15:09	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/10/19 15:09	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/10/19 15:09	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/10/19 15:09	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/10/19 15:09	1
cis-1,2-Dichloroethene	**0.49**	**J B**	1.0	0.41	ug/L			10/10/19 15:09	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/10/19 15:09	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/10/19 15:09	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/10/19 15:09	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/10/19 15:09	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/10/19 15:09	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/10/19 15:09	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/10/19 15:09	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/10/19 15:09	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/10/19 15:09	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/10/19 15:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/10/19 15:09	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/10/19 15:09	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/10/19 15:09	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/10/19 15:09	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/10/19 15:09	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/10/19 15:09	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/10/19 15:09	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/10/19 15:09	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/10/19 15:09	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/10/19 15:09	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/10/19 15:09	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/10/19 15:09	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/10/19 15:09	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/10/19 15:09	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/10/19 15:09	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/10/19 15:09	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/10/19 15:09	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/19 15:09	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/10/19 15:09	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/10/19 15:09	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/10/19 15:09	1
Tetrachloroethene	**1.5**	**B**	1.0	0.74	ug/L			10/10/19 15:09	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: TB # 539
Date Collected: 09/26/19 11:00
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.48	U	1.0	0.48	ug/L			10/10/19 15:09	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/10/19 15:09	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/10/19 15:09	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 15:09	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/10/19 15:09	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/10/19 15:09	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/10/19 15:09	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/10/19 15:09	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/10/19 15:09	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/10/19 15:09	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/10/19 15:09	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/10/19 15:09	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/10/19 15:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/19 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*10/10/19 15:09*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*10/10/19 15:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*73 - 131*		*10/10/19 15:09*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/10/19 15:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U H	10	7.0	ug/L			10/14/19 13:20	1
Benzene	0.43	U H	1.0	0.43	ug/L			10/14/19 13:20	1
Bromobenzene	0.50	U H	1.0	0.50	ug/L			10/14/19 13:20	1
Bromochloromethane	0.45	U H	1.0	0.45	ug/L			10/14/19 13:20	1
Bromodichloromethane	0.44	U H	1.0	0.44	ug/L			10/14/19 13:20	1
Bromoform	0.43	U H	1.0	0.43	ug/L			10/14/19 13:20	1
Bromomethane	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
2-Butanone (MEK)	3.4	U H	10	3.4	ug/L			10/14/19 13:20	1
Carbon disulfide	1.0	U H	2.0	1.0	ug/L			10/14/19 13:20	1
Carbon tetrachloride	0.33	U H	1.0	0.33	ug/L			10/14/19 13:20	1
Chlorobenzene	0.26	U H	1.0	0.26	ug/L			10/14/19 13:20	1
Chloroethane	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
Chloroform	0.50	U H	1.0	0.50	ug/L			10/14/19 13:20	1
Chloromethane	0.40	U H	1.0	0.40	ug/L			10/14/19 13:20	1
2-Chlorotoluene	0.27	U H	1.0	0.27	ug/L			10/14/19 13:20	1
4-Chlorotoluene	0.45	U H	1.0	0.45	ug/L			10/14/19 13:20	1
cis-1,2-Dichloroethene	0.41	U H	1.0	0.41	ug/L			10/14/19 13:20	1
cis-1,3-Dichloropropene	0.40	U H	1.0	0.40	ug/L			10/14/19 13:20	1
Dibromochloromethane	0.32	U H	1.0	0.32	ug/L			10/14/19 13:20	1
1,2-Dibromo-3-Chloropropane	1.1	U H	5.0	1.1	ug/L			10/14/19 13:20	1
1,2-Dibromoethane	0.44	U H	1.0	0.44	ug/L			10/14/19 13:20	1
Dibromomethane	0.35	U H	1.0	0.35	ug/L			10/14/19 13:20	1
1,2-Dichlorobenzene	0.37	U H	1.0	0.37	ug/L			10/14/19 13:20	1
1,3-Dichlorobenzene	0.43	U H	1.0	0.43	ug/L			10/14/19 13:20	1
1,4-Dichlorobenzene	0.46	U H	1.0	0.46	ug/L			10/14/19 13:20	1
Dichlorodifluoromethane	0.60	U H	1.0	0.60	ug/L			10/14/19 13:20	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: TB # 539
Date Collected: 09/26/19 11:00
Date Received: 09/27/19 09:10

Lab Sample ID: 680-174693-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.38	U H	1.0	0.38	ug/L			10/14/19 13:20	1
1,2-Dichloroethane	0.50	U H	1.0	0.50	ug/L			10/14/19 13:20	1
1,1-Dichloroethene	0.36	U H	1.0	0.36	ug/L			10/14/19 13:20	1
1,2-Dichloropropane	0.67	U H	1.0	0.67	ug/L			10/14/19 13:20	1
1,3-Dichloropropane	0.34	U H	1.0	0.34	ug/L			10/14/19 13:20	1
2,2-Dichloropropane	0.37	U * H	1.0	0.37	ug/L			10/14/19 13:20	1
1,1-Dichloropropene	0.34	U H	1.0	0.34	ug/L			10/14/19 13:20	1
Ethylbenzene	0.33	U H	1.0	0.33	ug/L			10/14/19 13:20	1
Hexachlorobutadiene	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
2-Hexanone	2.0	U H	10	2.0	ug/L			10/14/19 13:20	1
Isopropylbenzene	0.35	U H	1.0	0.35	ug/L			10/14/19 13:20	1
Methylene Chloride	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
4-Methyl-2-pentanone	2.1	U H	10	2.1	ug/L			10/14/19 13:20	1
Methyl tert-butyl ether	0.30	U H	10	0.30	ug/L			10/14/19 13:20	1
m-Xylene & p-Xylene	0.35	U H	1.0	0.35	ug/L			10/14/19 13:20	1
Naphthalene	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
n-Butylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 13:20	1
N-Propylbenzene	0.38	U H	1.0	0.38	ug/L			10/14/19 13:20	1
o-Xylene	0.23	U H	1.0	0.23	ug/L			10/14/19 13:20	1
p-Isopropyltoluene	0.48	U H	1.0	0.48	ug/L			10/14/19 13:20	1
sec-Butylbenzene	0.42	U H	1.0	0.42	ug/L			10/14/19 13:20	1
Styrene	0.27	U H	1.0	0.27	ug/L			10/14/19 13:20	1
tert-Butylbenzene	0.45	U H	1.0	0.45	ug/L			10/14/19 13:20	1
1,1,1,2-Tetrachloroethane	0.37	U H	1.0	0.37	ug/L			10/14/19 13:20	1
1,1,2,2-Tetrachloroethane	0.62	U H	1.0	0.62	ug/L			10/14/19 13:20	1
Tetrachloroethene	0.74	U * H	1.0	0.74	ug/L			10/14/19 13:20	1
Toluene	0.48	U H	1.0	0.48	ug/L			10/14/19 13:20	1
trans-1,2-Dichloroethene	0.37	U H	1.0	0.37	ug/L			10/14/19 13:20	1
trans-1,3-Dichloropropene	0.42	U H	1.0	0.42	ug/L			10/14/19 13:20	1
1,2,3-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
1,2,4-Trichlorobenzene	2.5	U H	5.0	2.5	ug/L			10/14/19 13:20	1
1,1,1-Trichloroethane	0.37	U * H	1.0	0.37	ug/L			10/14/19 13:20	1
1,1,2-Trichloroethane	0.33	U H	1.0	0.33	ug/L			10/14/19 13:20	1
Trichloroethene	0.48	U H	1.0	0.48	ug/L			10/14/19 13:20	1
Trichlorofluoromethane	0.42	U H	1.0	0.42	ug/L			10/14/19 13:20	1
1,2,3-Trichloropropane	0.39	U H	1.0	0.39	ug/L			10/14/19 13:20	1
1,2,4-Trimethylbenzene	0.47	U H	1.0	0.47	ug/L			10/14/19 13:20	1
1,3,5-Trimethylbenzene	0.31	U H	1.0	0.31	ug/L			10/14/19 13:20	1
Vinyl acetate	0.81	U H	2.0	0.81	ug/L			10/14/19 13:20	1
Vinyl chloride	0.50	U H	1.0	0.50	ug/L			10/14/19 13:20	1
Xylenes, Total	0.23	U H	1.0	0.23	ug/L			10/14/19 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*80 - 120*		*10/14/19 13:20*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*10/14/19 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*10/14/19 13:20*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/14/19 13:20*	*1*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-589432/10
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/05/19 14:30	1
Benzene	0.43	U	1.0	0.43	ug/L			10/05/19 14:30	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/05/19 14:30	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/05/19 14:30	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/05/19 14:30	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/05/19 14:30	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/05/19 14:30	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/05/19 14:30	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/05/19 14:30	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/05/19 14:30	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/05/19 14:30	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/05/19 14:30	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/05/19 14:30	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/05/19 14:30	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/05/19 14:30	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/05/19 14:30	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/05/19 14:30	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/05/19 14:30	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/05/19 14:30	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/05/19 14:30	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/05/19 14:30	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/05/19 14:30	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/05/19 14:30	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/05/19 14:30	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/05/19 14:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/05/19 14:30	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/05/19 14:30	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/05/19 14:30	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/05/19 14:30	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/05/19 14:30	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/05/19 14:30	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/05/19 14:30	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/05/19 14:30	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/05/19 14:30	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/05/19 14:30	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/05/19 14:30	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/05/19 14:30	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/05/19 14:30	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/05/19 14:30	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/05/19 14:30	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/05/19 14:30	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/05/19 14:30	1
Styrene	0.27	U	1.0	0.27	ug/L			10/05/19 14:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589432/10
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/05/19 14:30	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/05/19 14:30	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/05/19 14:30	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/05/19 14:30	1
Toluene	0.48	U	1.0	0.48	ug/L			10/05/19 14:30	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/05/19 14:30	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/05/19 14:30	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/05/19 14:30	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/05/19 14:30	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/05/19 14:30	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/05/19 14:30	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/05/19 14:30	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/05/19 14:30	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/05/19 14:30	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/05/19 14:30	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/05/19 14:30	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/05/19 14:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/05/19 14:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/19 14:30*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*10/05/19 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*10/05/19 14:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/19 14:30*	*1*

Lab Sample ID: LCS 680-589432/4
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	251		ug/L		100	70 - 135
Benzene	50.0	49.8		ug/L		100	80 - 120
Bromobenzene	50.0	49.9		ug/L		100	80 - 121
Bromochloromethane	50.0	49.6		ug/L		99	80 - 120
Bromodichloromethane	50.0	51.2		ug/L		102	80 - 120
Bromoform	50.0	49.2		ug/L		98	74 - 126
Bromomethane	50.0	47.1		ug/L		94	62 - 130
2-Butanone (MEK)	251	249		ug/L		99	80 - 131
Carbon disulfide	50.0	48.4		ug/L		97	80 - 120
Carbon tetrachloride	50.0	48.0		ug/L		96	76 - 123
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120
Chloroethane	50.0	51.0		ug/L		102	66 - 135
Chloroform	50.0	50.7		ug/L		101	80 - 120
Chloromethane	50.0	45.7		ug/L		91	69 - 131
2-Chlorotoluene	50.0	49.8		ug/L		100	80 - 120
4-Chlorotoluene	50.0	50.0		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589432/4
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	80 - 120
Dibromochloromethane	50.0	49.6		ug/L		99	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	49.8		ug/L		100	80 - 120
Dibromomethane	50.0	50.8		ug/L		102	80 - 120
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
Dichlorodifluoromethane	50.0	43.8		ug/L		88	47 - 155
1,1-Dichloroethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dichloroethane	50.0	51.3		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	47.5		ug/L		95	76 - 120
1,2-Dichloropropane	50.0	50.7		ug/L		101	80 - 120
1,3-Dichloropropane	50.0	51.1		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	51.4		ug/L		103	76 - 126
1,1-Dichloropropene	50.0	49.4		ug/L		99	80 - 120
Ethylbenzene	50.0	49.5		ug/L		99	80 - 120
Hexachlorobutadiene	50.0	51.5		ug/L		103	60 - 140
2-Hexanone	250	247		ug/L		99	74 - 127
Isopropylbenzene	50.0	49.5		ug/L		99	80 - 120
Methylene Chloride	50.0	47.0		ug/L		94	80 - 120
4-Methyl-2-pentanone	250	253		ug/L		101	76 - 124
Methyl tert-butyl ether	50.0	49.2		ug/L		98	80 - 120
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	80 - 120
Naphthalene	50.0	50.5		ug/L		101	59 - 140
n-Butylbenzene	50.0	51.1		ug/L		102	80 - 120
N-Propylbenzene	50.0	50.1		ug/L		100	80 - 120
o-Xylene	50.0	49.5		ug/L		99	80 - 120
p-Isopropyltoluene	50.0	50.6		ug/L		101	80 - 120
sec-Butylbenzene	50.0	50.4		ug/L		101	80 - 120
Styrene	50.0	50.0		ug/L		100	80 - 120
tert-Butylbenzene	50.0	48.6		ug/L		97	80 - 121
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/L		95	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	80 - 120
Tetrachloroethene	50.0	46.8		ug/L		94	80 - 121
Toluene	50.0	50.2		ug/L		100	80 - 113
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 120
1,2,3-Trichlorobenzene	50.0	51.7		ug/L		103	61 - 141
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	68 - 128
1,1,1-Trichloroethane	50.0	48.5		ug/L		97	80 - 120
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 120
Trichloroethene	50.0	48.8		ug/L		98	80 - 120
Trichlorofluoromethane	50.0	48.4		ug/L		97	60 - 141
1,2,3-Trichloropropane	50.0	50.0		ug/L		100	80 - 123
1,2,4-Trimethylbenzene	50.0	59.3		ug/L		119	80 - 120
1,3,5-Trimethylbenzene	50.0	50.1		ug/L		100	80 - 120
Vinyl acetate	100	105		ug/L		105	67 - 135
Vinyl chloride	50.0	48.8		ug/L		98	71 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589432/4
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			100	98.8		ug/L		99	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 680-589432/5
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	264		ug/L		106	70 - 135	5	30
Benzene			50.0	53.3		ug/L		107	80 - 120	7	20
Bromobenzene			50.0	51.4		ug/L		103	80 - 121	3	20
Bromochloromethane			50.0	51.5		ug/L		103	80 - 120	4	20
Bromodichloromethane			50.0	53.5		ug/L		107	80 - 120	4	20
Bromoform			50.0	49.9		ug/L		100	74 - 126	1	20
Bromomethane			50.0	47.4		ug/L		95	62 - 130	1	20
2-Butanone (MEK)			250	258		ug/L		103	80 - 131	3	20
Carbon disulfide			50.0	52.6		ug/L		105	80 - 120	8	20
Carbon tetrachloride			50.0	54.1		ug/L		108	76 - 123	12	20
Chlorobenzene			50.0	50.3		ug/L		101	80 - 120	2	20
Chloroethane			50.0	55.8		ug/L		112	66 - 135	9	20
Chloroform			50.0	53.4		ug/L		107	80 - 120	5	20
Chloromethane			50.0	49.6		ug/L		99	69 - 131	8	30
2-Chlorotoluene			50.0	51.9		ug/L		104	80 - 120	4	20
4-Chlorotoluene			50.0	52.3		ug/L		105	80 - 120	4	20
cis-1,2-Dichloroethene			50.0	53.3		ug/L		107	80 - 120	6	20
cis-1,3-Dichloropropene			50.0	53.1		ug/L		106	80 - 120	5	20
Dibromochloromethane			50.0	51.7		ug/L		103	80 - 121	4	20
1,2-Dibromo-3-Chloropropane			50.0	50.8		ug/L		102	71 - 134	4	20
1,2-Dibromoethane			50.0	52.6		ug/L		105	80 - 120	5	20
Dibromomethane			50.0	52.4		ug/L		105	80 - 120	3	20
1,2-Dichlorobenzene			50.0	52.6		ug/L		105	80 - 120	4	20
1,3-Dichlorobenzene			50.0	52.7		ug/L		105	80 - 120	5	20
1,4-Dichlorobenzene			50.0	51.7		ug/L		103	80 - 120	4	20
Dichlorodifluoromethane			50.0	49.9		ug/L		100	47 - 155	13	40
1,1-Dichloroethane			50.0	52.7		ug/L		105	80 - 120	4	20
1,2-Dichloroethane			50.0	52.7		ug/L		105	80 - 120	3	50
1,1-Dichloroethene			50.0	53.4		ug/L		107	76 - 120	12	20
1,2-Dichloropropane			50.0	53.3		ug/L		107	80 - 120	5	20
1,3-Dichloropropane			50.0	52.9		ug/L		106	80 - 120	3	20
2,2-Dichloropropane			50.0	55.2		ug/L		110	76 - 126	7	20
1,1-Dichloropropene			50.0	54.5		ug/L		109	80 - 120	10	20
Ethylbenzene			50.0	52.4		ug/L		105	80 - 120	6	20
Hexachlorobutadiene			50.0	56.1		ug/L		112	60 - 140	9	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589432/5
Matrix: Water
Analysis Batch: 589432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone			250	260		ug/L		104	74 - 127	5	20
Isopropylbenzene			50.0	52.3		ug/L		105	80 - 120	6	20
Methylene Chloride			50.0	49.5		ug/L		99	80 - 120	5	20
4-Methyl-2-pentanone			250	261		ug/L		104	76 - 124	3	20
Methyl tert-butyl ether			50.0	51.4		ug/L		103	80 - 120	4	20
m-Xylene & p-Xylene			50.0	51.6		ug/L		103	80 - 120	5	20
Naphthalene			50.0	52.1		ug/L		104	59 - 140	3	20
n-Butylbenzene			50.0	54.8		ug/L		110	80 - 120	7	20
N-Propylbenzene			50.0	53.6		ug/L		107	80 - 120	7	20
o-Xylene			50.0	51.6		ug/L		103	80 - 120	4	30
p-Isopropyltoluene			50.0	54.6		ug/L		109	80 - 120	8	20
sec-Butylbenzene			50.0	54.1		ug/L		108	80 - 120	7	20
Styrene			50.0	52.3		ug/L		105	80 - 120	4	20
tert-Butylbenzene			50.0	52.7		ug/L		105	80 - 121	8	20
1,1,1,2-Tetrachloroethane			50.0	48.2		ug/L		96	80 - 121	2	20
1,1,2,2-Tetrachloroethane			50.0	51.4		ug/L		103	80 - 120	1	20
Tetrachloroethene			50.0	50.9		ug/L		102	80 - 121	8	20
Toluene			50.0	54.0		ug/L		108	80 - 113	7	20
trans-1,2-Dichloroethene			50.0	53.0		ug/L		106	80 - 120	7	20
trans-1,3-Dichloropropene			50.0	53.6		ug/L		107	80 - 120	3	30
1,2,3-Trichlorobenzene			50.0	53.1		ug/L		106	61 - 141	3	20
1,2,4-Trichlorobenzene			50.0	54.0		ug/L		108	68 - 128	5	20
1,1,1-Trichloroethane			50.0	53.1		ug/L		106	80 - 120	9	20
1,1,2-Trichloroethane			50.0	53.6		ug/L		107	80 - 120	4	20
Trichloroethene			50.0	52.1		ug/L		104	80 - 120	6	20
Trichlorofluoromethane			50.0	54.2		ug/L		108	60 - 141	11	20
1,2,3-Trichloropropane			50.0	49.7		ug/L		99	80 - 123	1	30
1,2,4-Trimethylbenzene			50.0	63.6	*	ug/L		127	80 - 120	7	20
1,3,5-Trimethylbenzene			50.0	53.2		ug/L		106	80 - 120	6	20
Vinyl acetate			100	107		ug/L		107	67 - 135	2	20
Vinyl chloride			50.0	54.1		ug/L		108	71 - 128	10	20
Xylenes, Total			100	103		ug/L		103	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-589584/9
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 14:53	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 14:53	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 14:53	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 14:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589584/9
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 14:53	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 14:53	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 14:53	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 14:53	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 14:53	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 14:53	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 14:53	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 14:53	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 14:53	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 14:53	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 14:53	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 14:53	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 14:53	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 14:53	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 14:53	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 14:53	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 14:53	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 14:53	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 14:53	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 14:53	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 14:53	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 14:53	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 14:53	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 14:53	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 14:53	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 14:53	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 14:53	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 14:53	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 14:53	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 14:53	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 14:53	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 14:53	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 14:53	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 14:53	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 14:53	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 14:53	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 14:53	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 14:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 14:53	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 14:53	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 14:53	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 14:53	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 14:53	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 14:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589584/9
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 14:53	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 14:53	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 14:53	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 14:53	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 14:53	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 14:53	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 14:53	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 14:53	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 14:53	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 14:53	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 14:53	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 14:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/07/19 14:53*	*1*
Dibromofluoromethane (Surr)	*85*		*80 - 122*		*10/07/19 14:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*73 - 131*		*10/07/19 14:53*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*10/07/19 14:53*	*1*

Lab Sample ID: LCS 680-589584/3
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	228		ug/L		91	70 - 135
Benzene	50.0	47.5		ug/L		95	80 - 120
Bromobenzene	50.0	48.4		ug/L		97	80 - 121
Bromochloromethane	50.0	44.2		ug/L		88	80 - 120
Bromodichloromethane	50.0	46.9		ug/L		94	80 - 120
Bromoform	50.0	46.3		ug/L		93	74 - 126
Bromomethane	50.0	49.3		ug/L		99	62 - 130
2-Butanone (MEK)	251	196	*	ug/L		78	80 - 131
Carbon disulfide	50.0	46.0		ug/L		92	80 - 120
Carbon tetrachloride	50.0	46.6		ug/L		93	76 - 123
Chlorobenzene	50.0	48.9		ug/L		98	80 - 120
Chloroethane	50.0	45.4		ug/L		91	66 - 135
Chloroform	50.0	45.3		ug/L		91	80 - 120
Chloromethane	50.0	43.2		ug/L		86	69 - 131
2-Chlorotoluene	50.0	48.2		ug/L		96	80 - 120
4-Chlorotoluene	50.0	47.0		ug/L		94	80 - 120
cis-1,2-Dichloroethene	50.0	44.0		ug/L		88	80 - 120
cis-1,3-Dichloropropene	50.0	46.5		ug/L		93	80 - 120
Dibromochloromethane	50.0	47.1		ug/L		94	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	39.0		ug/L		78	71 - 134
1,2-Dibromoethane	50.0	43.8		ug/L		88	80 - 120
Dibromomethane	50.0	41.4		ug/L		83	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589584/3
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	48.5		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	47.6		ug/L		95	80 - 120
Dichlorodifluoromethane	50.0	48.7		ug/L		97	47 - 155
1,1-Dichloroethane	50.0	44.2		ug/L		88	80 - 120
1,2-Dichloroethane	50.0	43.4		ug/L		87	80 - 120
1,1-Dichloroethene	50.0	47.1		ug/L		94	76 - 120
1,2-Dichloropropane	50.0	44.4		ug/L		89	80 - 120
1,3-Dichloropropane	50.0	45.2		ug/L		90	80 - 120
2,2-Dichloropropane	50.0	46.3		ug/L		93	76 - 126
1,1-Dichloropropene	50.0	45.1		ug/L		90	80 - 120
Ethylbenzene	50.0	48.8		ug/L		98	80 - 120
Hexachlorobutadiene	50.0	47.5		ug/L		95	60 - 140
2-Hexanone	250	199		ug/L		79	74 - 127
Isopropylbenzene	50.0	48.5		ug/L		97	80 - 120
Methylene Chloride	50.0	46.8		ug/L		94	80 - 120
4-Methyl-2-pentanone	250	196		ug/L		78	76 - 124
Methyl tert-butyl ether	50.0	43.4		ug/L		87	80 - 120
m-Xylene & p-Xylene	50.0	48.7		ug/L		97	80 - 120
Naphthalene	50.0	41.9		ug/L		84	59 - 140
n-Butylbenzene	50.0	50.1		ug/L		100	80 - 120
N-Propylbenzene	50.0	48.1		ug/L		96	80 - 120
o-Xylene	50.0	48.8		ug/L		98	80 - 120
p-Isopropyltoluene	50.0	49.6		ug/L		99	80 - 120
sec-Butylbenzene	50.0	48.3		ug/L		97	80 - 120
Styrene	50.0	49.4		ug/L		99	80 - 120
tert-Butylbenzene	50.0	47.9		ug/L		96	80 - 121
1,1,1,2-Tetrachloroethane	50.0	47.5		ug/L		95	80 - 121
1,1,2,2-Tetrachloroethane	50.0	44.5		ug/L		89	80 - 120
Tetrachloroethene	50.0	46.6		ug/L		93	80 - 121
Toluene	50.0	46.9		ug/L		94	80 - 113
trans-1,2-Dichloroethene	50.0	44.5		ug/L		89	80 - 120
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	80 - 120
1,2,3-Trichlorobenzene	50.0	46.4		ug/L		93	61 - 141
1,2,4-Trichlorobenzene	50.0	48.1		ug/L		96	68 - 128
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	80 - 120
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	80 - 120
Trichloroethene	50.0	46.9		ug/L		94	80 - 120
Trichlorofluoromethane	50.0	46.4		ug/L		93	60 - 141
1,2,3-Trichloropropane	50.0	40.4		ug/L		81	80 - 123
1,2,4-Trimethylbenzene	50.0	47.6		ug/L		95	80 - 120
1,3,5-Trimethylbenzene	50.0	47.5		ug/L		95	80 - 120
Vinyl acetate	100	93.3		ug/L		93	67 - 135
Vinyl chloride	50.0	46.2		ug/L		92	71 - 128
Xylenes, Total	100	97.5		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589584/3
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*86*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*85*		*73 - 131*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 680-589584/4
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	228		ug/L		91	70 - 135	0	30
Benzene			50.0	47.6		ug/L		95	80 - 120	0	20
Bromobenzene			50.0	48.2		ug/L		96	80 - 121	0	20
Bromochloromethane			50.0	44.8		ug/L		90	80 - 120	1	20
Bromodichloromethane			50.0	47.3		ug/L		95	80 - 120	1	20
Bromoform			50.0	45.2		ug/L		90	74 - 126	2	20
Bromomethane			50.0	52.1		ug/L		104	62 - 130	5	20
2-Butanone (MEK)			251	196	*	ug/L		78	80 - 131	0	20
Carbon disulfide			50.0	47.6		ug/L		95	80 - 120	3	20
Carbon tetrachloride			50.0	48.7		ug/L		97	76 - 123	4	20
Chlorobenzene			50.0	49.1		ug/L		98	80 - 120	0	20
Chloroethane			50.0	47.1		ug/L		94	66 - 135	4	20
Chloroform			50.0	46.1		ug/L		92	80 - 120	2	20
Chloromethane			50.0	45.3		ug/L		91	69 - 131	5	30
2-Chlorotoluene			50.0	48.5		ug/L		97	80 - 120	1	20
4-Chlorotoluene			50.0	47.8		ug/L		96	80 - 120	2	20
cis-1,2-Dichloroethene			50.0	44.5		ug/L		89	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	46.6		ug/L		93	80 - 120	0	20
Dibromochloromethane			50.0	47.1		ug/L		94	80 - 121	0	20
1,2-Dibromo-3-Chloropropane			50.0	39.7		ug/L		79	71 - 134	2	20
1,2-Dibromoethane			50.0	44.4		ug/L		89	80 - 120	1	20
Dibromomethane			50.0	41.8		ug/L		84	80 - 120	1	20
1,2-Dichlorobenzene			50.0	48.5		ug/L		97	80 - 120	0	20
1,3-Dichlorobenzene			50.0	48.7		ug/L		97	80 - 120	1	20
1,4-Dichlorobenzene			50.0	47.9		ug/L		96	80 - 120	0	20
Dichlorodifluoromethane			50.0	54.4		ug/L		109	47 - 155	11	40
1,1-Dichloroethane			50.0	45.1		ug/L		90	80 - 120	2	20
1,2-Dichloroethane			50.0	43.2		ug/L		86	80 - 120	0	50
1,1-Dichloroethene			50.0	49.7		ug/L		99	76 - 120	5	20
1,2-Dichloropropane			50.0	44.5		ug/L		89	80 - 120	0	20
1,3-Dichloropropane			50.0	44.6		ug/L		89	80 - 120	1	20
2,2-Dichloropropane			50.0	47.4		ug/L		95	76 - 126	2	20
1,1-Dichloropropene			50.0	46.5		ug/L		93	80 - 120	3	20
Ethylbenzene			50.0	49.2		ug/L		98	80 - 120	1	20
Hexachlorobutadiene			50.0	50.5		ug/L		101	60 - 140	6	20
2-Hexanone			250	204		ug/L		81	74 - 127	3	20
Isopropylbenzene			50.0	49.6		ug/L		99	80 - 120	2	20
Methylene Chloride			50.0	46.5		ug/L		93	80 - 120	1	20
4-Methyl-2-pentanone			250	199		ug/L		79	76 - 124	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589584/4
Matrix: Water
Analysis Batch: 589584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	42.8		ug/L		86	80 - 120	1	20
m-Xylene & p-Xylene	50.0	49.1		ug/L		98	80 - 120	1	20
Naphthalene	50.0	43.7		ug/L		87	59 - 140	4	20
n-Butylbenzene	50.0	52.4		ug/L		105	80 - 120	5	20
N-Propylbenzene	50.0	49.8		ug/L		100	80 - 120	4	20
o-Xylene	50.0	48.8		ug/L		98	80 - 120	0	30
p-Isopropyltoluene	50.0	50.2		ug/L		100	80 - 120	1	20
sec-Butylbenzene	50.0	50.3		ug/L		101	80 - 120	4	20
Styrene	50.0	49.5		ug/L		99	80 - 120	0	20
tert-Butylbenzene	50.0	49.2		ug/L		98	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	46.7		ug/L		93	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	44.4		ug/L		89	80 - 120	0	20
Tetrachloroethene	50.0	48.5		ug/L		97	80 - 121	4	20
Toluene	50.0	48.2		ug/L		96	80 - 113	3	20
trans-1,2-Dichloroethene	50.0	44.9		ug/L		90	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	46.3		ug/L		93	80 - 120	1	30
1,2,3-Trichlorobenzene	50.0	47.6		ug/L		95	61 - 141	3	20
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	68 - 128	1	20
1,1,1-Trichloroethane	50.0	47.3		ug/L		95	80 - 120	2	20
1,1,2-Trichloroethane	50.0	45.6		ug/L		91	80 - 120	0	20
Trichloroethene	50.0	48.2		ug/L		96	80 - 120	3	20
Trichlorofluoromethane	50.0	48.6		ug/L		97	60 - 141	5	20
1,2,3-Trichloropropane	50.0	40.6		ug/L		81	80 - 123	0	30
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	80 - 120	2	20
1,3,5-Trimethylbenzene	50.0	48.3		ug/L		97	80 - 120	2	20
Vinyl acetate	100	92.1		ug/L		92	67 - 135	1	20
Vinyl chloride	50.0	47.0		ug/L		94	71 - 128	2	20
Xylenes, Total	100	97.9		ug/L		98	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*87*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*84*		*73 - 131*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: MB 680-589587/10
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 12:57	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 12:57	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 12:57	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 12:57	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 12:57	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 12:57	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 12:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589587/10
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/07/19 12:57	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 12:57	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 12:57	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 12:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 12:57	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 12:57	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 12:57	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 12:57	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 12:57	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 12:57	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 12:57	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 12:57	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 12:57	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 12:57	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 12:57	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 12:57	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 12:57	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 12:57	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 12:57	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 12:57	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 12:57	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 12:57	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 12:57	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 12:57	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 12:57	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 12:57	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 12:57	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 12:57	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 12:57	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 12:57	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 12:57	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 12:57	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 12:57	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 12:57	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 12:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 12:57	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 12:57	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 12:57	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 12:57	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 12:57	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 12:57	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/07/19 12:57	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 12:57	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 12:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589587/10
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 12:57	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 12:57	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 12:57	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 12:57	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 12:57	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 12:57	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 12:57	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 12:57	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 12:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/07/19 12:57*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*10/07/19 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*10/07/19 12:57*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/07/19 12:57*	*1*

Lab Sample ID: LCS 680-589587/4
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	252		ug/L		100	70 - 135
Benzene	50.0	51.9		ug/L		104	80 - 120
Bromobenzene	50.0	50.1		ug/L		100	80 - 121
Bromochloromethane	50.0	50.5		ug/L		101	80 - 120
Bromodichloromethane	50.0	53.0		ug/L		106	80 - 120
Bromoform	50.0	49.6		ug/L		99	74 - 126
Bromomethane	50.0	50.4		ug/L		101	62 - 130
2-Butanone (MEK)	251	251		ug/L		100	80 - 131
Carbon disulfide	50.0	51.6		ug/L		103	80 - 120
Carbon tetrachloride	50.0	52.6		ug/L		105	76 - 123
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120
Chloroethane	50.0	54.9		ug/L		110	66 - 135
Chloroform	50.0	52.6		ug/L		105	80 - 120
Chloromethane	50.0	47.8		ug/L		96	69 - 131
2-Chlorotoluene	50.0	50.1		ug/L		100	80 - 120
4-Chlorotoluene	50.0	50.5		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	52.7		ug/L		105	80 - 120
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	80 - 120
Dibromochloromethane	50.0	51.2		ug/L		102	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	71 - 134
1,2-Dibromoethane	50.0	50.8		ug/L		102	80 - 120
Dibromomethane	50.0	52.2		ug/L		104	80 - 120
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 120
1,3-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	48.7		ug/L		97	80 - 120
Dichlorodifluoromethane	50.0	49.2		ug/L		98	47 - 155

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589587/4
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	52.6		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	51.5		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	52.1		ug/L		104	76 - 120
1,2-Dichloropropane	50.0	52.1		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	51.6		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	55.4		ug/L		111	76 - 126
1,1-Dichloropropene	50.0	53.2		ug/L		106	80 - 120
Ethylbenzene	50.0	50.6		ug/L		101	80 - 120
Hexachlorobutadiene	50.0	52.6		ug/L		105	60 - 140
2-Hexanone	250	245		ug/L		98	74 - 127
Isopropylbenzene	50.0	50.7		ug/L		101	80 - 120
Methylene Chloride	50.0	48.5		ug/L		97	80 - 120
4-Methyl-2-pentanone	250	250		ug/L		100	76 - 124
Methyl tert-butyl ether	50.0	50.1		ug/L		100	80 - 120
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	80 - 120
Naphthalene	50.0	48.7		ug/L		97	59 - 140
n-Butylbenzene	50.0	51.0		ug/L		102	80 - 120
N-Propylbenzene	50.0	51.4		ug/L		103	80 - 120
o-Xylene	50.0	50.0		ug/L		100	80 - 120
p-Isopropyltoluene	50.0	51.0		ug/L		102	80 - 120
sec-Butylbenzene	50.0	51.3		ug/L		103	80 - 120
Styrene	50.0	50.5		ug/L		101	80 - 120
tert-Butylbenzene	50.0	50.8		ug/L		102	80 - 121
1,1,1,2-Tetrachloroethane	50.0	47.2		ug/L		94	80 - 121
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	80 - 120
Tetrachloroethene	50.0	48.9		ug/L		98	80 - 121
Toluene	50.0	52.4		ug/L		105	80 - 113
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 120
1,2,3-Trichlorobenzene	50.0	49.7		ug/L		99	61 - 141
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	68 - 128
1,1,1-Trichloroethane	50.0	52.2		ug/L		104	80 - 120
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 120
Trichloroethene	50.0	51.0		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	53.3		ug/L		107	60 - 141
1,2,3-Trichloropropane	50.0	48.0		ug/L		96	80 - 123
1,2,4-Trimethylbenzene	50.0	60.3	*	ug/L		121	80 - 120
1,3,5-Trimethylbenzene	50.0	51.0		ug/L		102	80 - 120
Vinyl acetate	100	110		ug/L		109	67 - 135
Vinyl chloride	50.0	52.4		ug/L		105	71 - 128
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589587/5
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	233		ug/L		93	70 - 135	8	30
Benzene	50.0	51.3		ug/L		103	80 - 120	1	20
Bromobenzene	50.0	50.1		ug/L		100	80 - 121	0	20
Bromochloromethane	50.0	48.3		ug/L		97	80 - 120	4	20
Bromodichloromethane	50.0	50.9		ug/L		102	80 - 120	4	20
Bromoform	50.0	49.2		ug/L		98	74 - 126	1	20
Bromomethane	50.0	52.8		ug/L		106	62 - 130	5	20
2-Butanone (MEK)	250	239		ug/L		96	80 - 131	5	20
Carbon disulfide	50.0	52.6		ug/L		105	80 - 120	2	20
Carbon tetrachloride	50.0	52.8		ug/L		106	76 - 123	0	20
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120	1	20
Chloroethane	50.0	55.0		ug/L		110	66 - 135	0	20
Chloroform	50.0	51.1		ug/L		102	80 - 120	3	20
Chloromethane	50.0	50.0		ug/L		100	69 - 131	5	30
2-Chlorotoluene	50.0	51.4		ug/L		103	80 - 120	3	20
4-Chlorotoluene	50.0	51.5		ug/L		103	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	80 - 120	5	20
Dibromochloromethane	50.0	49.2		ug/L		98	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	71 - 134	1	20
1,2-Dibromoethane	50.0	49.2		ug/L		98	80 - 120	3	20
Dibromomethane	50.0	50.9		ug/L		102	80 - 120	2	20
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	2	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	80 - 120	2	20
Dichlorodifluoromethane	50.0	55.2		ug/L		110	47 - 155	11	40
1,1-Dichloroethane	50.0	51.5		ug/L		103	80 - 120	2	20
1,2-Dichloroethane	50.0	50.0		ug/L		100	80 - 120	3	50
1,1-Dichloroethene	50.0	53.3		ug/L		107	76 - 120	2	20
1,2-Dichloropropane	50.0	50.9		ug/L		102	80 - 120	2	20
1,3-Dichloropropane	50.0	50.2		ug/L		100	80 - 120	3	20
2,2-Dichloropropane	50.0	54.8		ug/L		110	76 - 126	1	20
1,1-Dichloropropene	50.0	53.1		ug/L		106	80 - 120	0	20
Ethylbenzene	50.0	52.2		ug/L		104	80 - 120	3	20
Hexachlorobutadiene	50.0	54.7		ug/L		109	60 - 140	4	20
2-Hexanone	250	238		ug/L		95	74 - 127	3	20
Isopropylbenzene	50.0	52.0		ug/L		104	80 - 120	3	20
Methylene Chloride	50.0	46.8		ug/L		94	80 - 120	4	20
4-Methyl-2-pentanone	250	242		ug/L		97	76 - 124	4	20
Methyl tert-butyl ether	50.0	48.0		ug/L		96	80 - 120	4	20
m-Xylene & p-Xylene	50.0	51.2		ug/L		102	80 - 120	2	20
Naphthalene	50.0	49.2		ug/L		98	59 - 140	1	20
n-Butylbenzene	50.0	53.5		ug/L		107	80 - 120	5	20
N-Propylbenzene	50.0	52.6		ug/L		105	80 - 120	2	20
o-Xylene	50.0	50.8		ug/L		102	80 - 120	1	30
p-Isopropyltoluene	50.0	52.5		ug/L		105	80 - 120	3	20
sec-Butylbenzene	50.0	53.3		ug/L		107	80 - 120	4	20
Styrene	50.0	51.4		ug/L		103	80 - 120	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589587/5
Matrix: Water
Analysis Batch: 589587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	50.0	52.2		ug/L		104	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/L		96	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	80 - 120	1	20
Tetrachloroethene	50.0	49.2		ug/L		98	80 - 121	1	20
Toluene	50.0	51.7		ug/L		103	80 - 113	1	20
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	80 - 120	4	30
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	51.2		ug/L		102	68 - 128	3	20
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	1	20
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	80 - 120	4	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 120	1	20
Trichlorofluoromethane	50.0	54.2		ug/L		108	60 - 141	2	20
1,2,3-Trichloropropane	50.0	48.2		ug/L		96	80 - 123	0	30
1,2,4-Trimethylbenzene	50.0	62.7	*	ug/L		125	80 - 120	4	20
1,3,5-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 120	3	20
Vinyl acetate	100	105		ug/L		105	67 - 135	5	20
Vinyl chloride	50.0	54.2		ug/L		108	71 - 128	3	20
Xylenes, Total	100	102		ug/L		102	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-589601/8
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/07/19 14:40	1
Benzene	0.43	U	1.0	0.43	ug/L			10/07/19 14:40	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/07/19 14:40	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/07/19 14:40	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/07/19 14:40	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/07/19 14:40	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/07/19 14:40	1
Carbon disulfide	1.35	J	2.0	1.0	ug/L			10/07/19 14:40	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/07/19 14:40	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/07/19 14:40	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/07/19 14:40	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/07/19 14:40	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/07/19 14:40	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/07/19 14:40	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/07/19 14:40	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589601/8
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/07/19 14:40	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/07/19 14:40	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/07/19 14:40	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/07/19 14:40	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/07/19 14:40	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/07/19 14:40	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/07/19 14:40	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/07/19 14:40	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/07/19 14:40	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/07/19 14:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/07/19 14:40	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/07/19 14:40	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/07/19 14:40	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/07/19 14:40	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/07/19 14:40	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/07/19 14:40	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/07/19 14:40	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/07/19 14:40	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/07/19 14:40	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/07/19 14:40	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/07/19 14:40	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/07/19 14:40	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 14:40	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/07/19 14:40	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/07/19 14:40	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/07/19 14:40	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/07/19 14:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/19 14:40	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/07/19 14:40	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 14:40	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/07/19 14:40	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/07/19 14:40	1
Toluene	0.48	U	1.0	0.48	ug/L			10/07/19 14:40	1
trans-1,2-Dichloroethene	0.456	J	1.0	0.37	ug/L			10/07/19 14:40	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/07/19 14:40	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/07/19 14:40	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/07/19 14:40	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/07/19 14:40	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/07/19 14:40	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/07/19 14:40	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/07/19 14:40	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/07/19 14:40	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/07/19 14:40	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/07/19 14:40	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/07/19 14:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-589601/8
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/19 14:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*10/07/19 14:40*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 122*		*10/07/19 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*10/07/19 14:40*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/07/19 14:40*	*1*

Lab Sample ID: LCS 680-589601/1004
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	208		ug/L		83	70 - 135
Benzene	50.0	48.5		ug/L		97	80 - 120
Bromobenzene	50.0	51.2		ug/L		102	80 - 121
Bromochloromethane	50.0	50.0		ug/L		100	80 - 120
Bromodichloromethane	50.0	44.9		ug/L		90	80 - 120
Bromoform	50.0	56.4		ug/L		113	74 - 126
Bromomethane	50.0	49.9		ug/L		100	62 - 130
2-Butanone (MEK)	251	296		ug/L		118	80 - 131
Carbon disulfide	50.0	42.0		ug/L		84	80 - 120
Carbon tetrachloride	50.0	54.0		ug/L		108	76 - 123
Chlorobenzene	50.0	54.2		ug/L		108	80 - 120
Chloroethane	50.0	62.8		ug/L		126	66 - 135
Chloroform	50.0	49.4		ug/L		99	80 - 120
Chloromethane	50.0	49.2		ug/L		98	69 - 131
2-Chlorotoluene	50.0	47.2		ug/L		94	80 - 120
4-Chlorotoluene	50.0	50.0		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	80 - 120
cis-1,3-Dichloropropene	50.0	45.7		ug/L		91	80 - 120
Dibromochloromethane	50.0	50.0		ug/L		100	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	45.1		ug/L		90	71 - 134
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120
Dibromomethane	50.0	49.1		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	80 - 120
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120
Dichlorodifluoromethane	50.0	47.5		ug/L		95	47 - 155
1,1-Dichloroethane	50.0	47.0		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	45.7		ug/L		91	80 - 120
1,1-Dichloroethene	50.0	46.7		ug/L		93	76 - 120
1,2-Dichloropropane	50.0	44.8		ug/L		90	80 - 120
1,3-Dichloropropane	50.0	44.1		ug/L		88	80 - 120
2,2-Dichloropropane	50.0	53.0		ug/L		106	76 - 126
1,1-Dichloropropene	50.0	49.5		ug/L		99	80 - 120
Ethylbenzene	50.0	53.1		ug/L		106	80 - 120
Hexachlorobutadiene	50.0	46.7		ug/L		93	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-589601/1004
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	240		ug/L		96	74 - 127
Isopropylbenzene	50.0	53.0		ug/L		106	80 - 120
Methylene Chloride	50.0	41.1		ug/L		82	80 - 120
4-Methyl-2-pentanone	250	259		ug/L		104	76 - 124
Methyl tert-butyl ether	50.0	42.3		ug/L		85	80 - 120
m-Xylene & p-Xylene	50.0	52.4		ug/L		105	80 - 120
Naphthalene	50.0	47.4		ug/L		95	59 - 140
n-Butylbenzene	50.0	43.4		ug/L		87	80 - 120
N-Propylbenzene	50.0	48.9		ug/L		98	80 - 120
o-Xylene	50.0	51.0		ug/L		102	80 - 120
p-Isopropyltoluene	50.0	45.1		ug/L		90	80 - 120
sec-Butylbenzene	50.0	54.9		ug/L		110	80 - 120
Styrene	50.0	53.3		ug/L		107	80 - 120
tert-Butylbenzene	50.0	52.4		ug/L		105	80 - 121
1,1,1,2-Tetrachloroethane	50.0	55.5		ug/L		111	80 - 121
1,1,2,2-Tetrachloroethane	50.0	44.5		ug/L		89	80 - 120
Tetrachloroethene	50.0	51.4		ug/L		103	80 - 121
Toluene	50.0	52.8		ug/L		106	80 - 113
trans-1,2-Dichloroethene	50.0	44.5		ug/L		89	80 - 120
trans-1,3-Dichloropropene	50.0	42.5		ug/L		85	80 - 120
1,2,3-Trichlorobenzene	50.0	47.0		ug/L		94	61 - 141
1,2,4-Trichlorobenzene	50.0	41.3		ug/L		83	68 - 128
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	80 - 120
Trichloroethene	50.0	53.1		ug/L		106	80 - 120
Trichlorofluoromethane	50.0	67.3		ug/L		135	60 - 141
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	80 - 123
1,2,4-Trimethylbenzene	50.0	54.4		ug/L		109	80 - 120
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	80 - 120
Vinyl acetate	100	106		ug/L		106	67 - 135
Vinyl chloride	50.0	48.4		ug/L		97	71 - 128
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*
Toluene-d8 (Surr)	*118*		*80 - 120*

Lab Sample ID: LCSD 680-589601/5
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	237		ug/L		95	70 - 135	13	30
Benzene	50.0	48.6		ug/L		97	80 - 120	0	20
Bromobenzene	50.0	58.2		ug/L		116	80 - 121	13	20
Bromochloromethane	50.0	49.6		ug/L		99	80 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589601/5
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	50.0	39.0	*	ug/L		78	80 - 120	14	20
Bromoform	50.0	57.4		ug/L		115	74 - 126	2	20
Bromomethane	50.0	48.7		ug/L		97	62 - 130	2	20
2-Butanone (MEK)	251	277		ug/L		111	80 - 131	7	20
Carbon disulfide	50.0	47.3		ug/L		95	80 - 120	12	20
Carbon tetrachloride	50.0	50.2		ug/L		100	76 - 123	7	20
Chlorobenzene	50.0	55.1		ug/L		110	80 - 120	2	20
Chloroethane	50.0	64.4		ug/L		129	66 - 135	2	20
Chloroform	50.0	49.1		ug/L		98	80 - 120	1	20
Chloromethane	50.0	48.0		ug/L		96	69 - 131	3	30
2-Chlorotoluene	50.0	52.7		ug/L		105	80 - 120	11	20
4-Chlorotoluene	50.0	48.5		ug/L		97	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	46.3		ug/L		93	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	39.0	*	ug/L		78	80 - 120	16	20
Dibromochloromethane	50.0	45.4		ug/L		91	80 - 121	10	20
1,2-Dibromo-3-Chloropropane	50.0	56.6	*	ug/L		113	71 - 134	23	20
1,2-Dibromoethane	50.0	46.4		ug/L		93	80 - 120	13	20
Dibromomethane	50.0	43.7		ug/L		87	80 - 120	12	20
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 120	4	20
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120	0	20
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	80 - 120	1	20
Dichlorodifluoromethane	50.0	43.5		ug/L		87	47 - 155	9	40
1,1-Dichloroethane	50.0	46.1		ug/L		92	80 - 120	2	20
1,2-Dichloroethane	50.0	45.8		ug/L		92	80 - 120	0	50
1,1-Dichloroethene	50.0	46.8		ug/L		94	76 - 120	0	20
1,2-Dichloropropane	50.0	39.9		ug/L		80	80 - 120	12	20
1,3-Dichloropropane	50.0	42.5		ug/L		85	80 - 120	4	20
2,2-Dichloropropane	50.0	50.0		ug/L		100	76 - 126	6	20
1,1-Dichloropropene	50.0	48.4		ug/L		97	80 - 120	2	20
Ethylbenzene	50.0	55.9		ug/L		112	80 - 120	5	20
Hexachlorobutadiene	50.0	50.3		ug/L		101	60 - 140	8	20
2-Hexanone	250	216		ug/L		86	74 - 127	11	20
Isopropylbenzene	50.0	53.5		ug/L		107	80 - 120	1	20
Methylene Chloride	50.0	47.1		ug/L		94	80 - 120	14	20
4-Methyl-2-pentanone	250	209	*	ug/L		83	76 - 124	22	20
Methyl tert-butyl ether	50.0	47.2		ug/L		94	80 - 120	11	20
m-Xylene & p-Xylene	50.0	53.8		ug/L		108	80 - 120	3	20
Naphthalene	50.0	54.3		ug/L		109	59 - 140	14	20
n-Butylbenzene	50.0	44.4		ug/L		89	80 - 120	2	20
N-Propylbenzene	50.0	53.5		ug/L		107	80 - 120	9	20
o-Xylene	50.0	53.3		ug/L		107	80 - 120	4	30
p-Isopropyltoluene	50.0	46.4		ug/L		93	80 - 120	3	20
sec-Butylbenzene	50.0	46.4		ug/L		93	80 - 120	17	20
Styrene	50.0	56.4		ug/L		113	80 - 120	6	20
tert-Butylbenzene	50.0	47.6		ug/L		95	80 - 121	10	20
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/L		114	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	80 - 120	14	20
Tetrachloroethene	50.0	51.7		ug/L		103	80 - 121	1	20
Toluene	50.0	44.6		ug/L		89	80 - 113	17	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-589601/5
Matrix: Water
Analysis Batch: 589601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120	12	20
trans-1,3-Dichloropropene	50.0	40.5		ug/L		81	80 - 120	5	30
1,2,3-Trichlorobenzene	50.0	59.2	*	ug/L		118	61 - 141	23	20
1,2,4-Trichlorobenzene	50.0	55.1	*	ug/L		110	68 - 128	28	20
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	80 - 120	2	20
1,1,2-Trichloroethane	50.0	41.3		ug/L		83	80 - 120	1	20
Trichloroethene	50.0	45.3		ug/L		91	80 - 120	16	20
Trichlorofluoromethane	50.0	64.2		ug/L		128	60 - 141	5	20
1,2,3-Trichloropropane	50.0	57.4		ug/L		115	80 - 123	10	30
1,2,4-Trimethylbenzene	50.0	47.9		ug/L		96	80 - 120	13	20
1,3,5-Trimethylbenzene	50.0	53.9		ug/L		108	80 - 120	11	20
Vinyl acetate	100	104		ug/L		103	67 - 135	3	20
Vinyl chloride	50.0	45.7		ug/L		91	71 - 128	6	20
Xylenes, Total	100	107		ug/L		107	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 680-590268/9
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/10/19 14:43	1
Benzene	0.43	U	1.0	0.43	ug/L			10/10/19 14:43	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/10/19 14:43	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/10/19 14:43	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/10/19 14:43	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/10/19 14:43	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/10/19 14:43	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/10/19 14:43	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/10/19 14:43	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/10/19 14:43	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/10/19 14:43	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/10/19 14:43	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/10/19 14:43	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/10/19 14:43	1
cis-1,2-Dichloroethene	0.648	J	1.0	0.41	ug/L			10/10/19 14:43	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/10/19 14:43	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/10/19 14:43	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/10/19 14:43	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/10/19 14:43	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/10/19 14:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-590268/9
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/10/19 14:43	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/10/19 14:43	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/10/19 14:43	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/10/19 14:43	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/10/19 14:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/10/19 14:43	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/10/19 14:43	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/10/19 14:43	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/10/19 14:43	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/10/19 14:43	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/10/19 14:43	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/10/19 14:43	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/10/19 14:43	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/10/19 14:43	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/10/19 14:43	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/10/19 14:43	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/10/19 14:43	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/10/19 14:43	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/10/19 14:43	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/10/19 14:43	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/10/19 14:43	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/10/19 14:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/19 14:43	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/10/19 14:43	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/10/19 14:43	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/10/19 14:43	1
Tetrachloroethene	1.68		1.0	0.74	ug/L			10/10/19 14:43	1
Toluene	0.48	U	1.0	0.48	ug/L			10/10/19 14:43	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/10/19 14:43	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/10/19 14:43	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/10/19 14:43	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/10/19 14:43	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/10/19 14:43	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/10/19 14:43	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/10/19 14:43	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/10/19 14:43	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/10/19 14:43	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/10/19 14:43	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/10/19 14:43	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/10/19 14:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/19 14:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/10/19 14:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-590268/9
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/10/19 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*73 - 131*		*10/10/19 14:43*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/10/19 14:43*	*1*

Lab Sample ID: LCS 680-590268/4
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	189		ug/L		76	70 - 135
Benzene	50.0	48.4		ug/L		97	80 - 120
Bromobenzene	50.0	55.9		ug/L		112	80 - 121
Bromochloromethane	50.0	49.0		ug/L		98	80 - 120
Bromodichloromethane	50.0	46.5		ug/L		93	80 - 120
Bromoform	50.0	53.9		ug/L		108	74 - 126
Bromomethane	50.0	52.3	E	ug/L		105	62 - 130
2-Butanone (MEK)	250	232		ug/L		93	80 - 131
Carbon disulfide	50.0	47.2		ug/L		94	80 - 120
Carbon tetrachloride	50.0	49.4		ug/L		99	76 - 123
Chlorobenzene	50.0	54.2		ug/L		108	80 - 120
Chloroethane	50.0	61.6		ug/L		123	66 - 135
Chloroform	50.0	50.0		ug/L		100	80 - 120
Chloromethane	50.0	58.9		ug/L		118	69 - 131
2-Chlorotoluene	50.0	51.6		ug/L		103	80 - 120
4-Chlorotoluene	50.0	52.2		ug/L		104	80 - 120
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	46.0		ug/L		92	80 - 120
Dibromochloromethane	50.0	50.3		ug/L		101	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	37.4		ug/L		75	71 - 134
1,2-Dibromoethane	50.0	50.9		ug/L		102	80 - 120
Dibromomethane	50.0	49.2		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120
1,3-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	80 - 120
Dichlorodifluoromethane	50.0	48.8		ug/L		98	47 - 155
1,1-Dichloroethane	50.0	47.5		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	46.8		ug/L		94	80 - 120
1,1-Dichloroethene	50.0	51.9		ug/L		104	76 - 120
1,2-Dichloropropane	50.0	45.5		ug/L		91	80 - 120
1,3-Dichloropropane	50.0	46.9		ug/L		94	80 - 120
2,2-Dichloropropane	50.0	54.7		ug/L		109	76 - 126
1,1-Dichloropropene	50.0	46.8		ug/L		94	80 - 120
Ethylbenzene	50.0	53.6		ug/L		107	80 - 120
Hexachlorobutadiene	50.0	44.2		ug/L		88	60 - 140
2-Hexanone	250	227		ug/L		91	74 - 127
Isopropylbenzene	50.0	53.1		ug/L		106	80 - 120
Methylene Chloride	50.0	50.9		ug/L		102	80 - 120
4-Methyl-2-pentanone	250	230		ug/L		92	76 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-590268/4
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	47.9		ug/L		96	80 - 120
m-Xylene & p-Xylene	50.0	52.4		ug/L		105	80 - 120
Naphthalene	50.0	37.3		ug/L		75	59 - 140
n-Butylbenzene	50.0	44.7		ug/L		89	80 - 120
N-Propylbenzene	50.0	51.9		ug/L		104	80 - 120
o-Xylene	50.0	52.4		ug/L		105	80 - 120
p-Isopropyltoluene	50.0	45.9		ug/L		92	80 - 120
sec-Butylbenzene	50.0	49.8		ug/L		100	80 - 120
Styrene	50.0	52.4		ug/L		105	80 - 120
tert-Butylbenzene	50.0	49.4		ug/L		99	80 - 121
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	80 - 121
1,1,2,2-Tetrachloroethane	50.0	43.7		ug/L		87	80 - 120
Tetrachloroethene	50.0	58.3		ug/L		117	80 - 121
Toluene	50.0	52.2		ug/L		104	80 - 113
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	43.4		ug/L		87	80 - 120
1,2,3-Trichlorobenzene	50.0	39.7		ug/L		79	61 - 141
1,2,4-Trichlorobenzene	50.0	38.6		ug/L		77	68 - 128
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	80 - 120
1,1,2-Trichloroethane	50.0	46.4		ug/L		93	80 - 120
Trichloroethene	50.0	53.7		ug/L		107	80 - 120
Trichlorofluoromethane	50.0	61.0		ug/L		122	60 - 141
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	80 - 123
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	80 - 120
1,3,5-Trimethylbenzene	50.0	51.4		ug/L		103	80 - 120
Vinyl acetate	100	97.0		ug/L		97	67 - 135
Vinyl chloride	50.0	51.5		ug/L		103	71 - 128
Xylenes, Total	100	105		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: LCSD 680-590268/5
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	196		ug/L		78	70 - 135	4	30
Benzene	50.0	48.2		ug/L		96	80 - 120	0	20
Bromobenzene	50.0	56.0		ug/L		112	80 - 121	0	20
Bromochloromethane	50.0	49.9		ug/L		100	80 - 120	2	20
Bromodichloromethane	50.0	47.0		ug/L		94	80 - 120	1	20
Bromoform	50.0	54.0		ug/L		108	74 - 126	0	20
Bromomethane	50.0	47.9		ug/L		96	62 - 130	9	20
2-Butanone (MEK)	251	242		ug/L		97	80 - 131	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590268/5
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	50.0	45.7		ug/L		91	80 - 120	3	20
Carbon tetrachloride	50.0	48.3		ug/L		97	76 - 123	2	20
Chlorobenzene	50.0	52.9		ug/L		106	80 - 120	3	20
Chloroethane	50.0	59.6		ug/L		119	66 - 135	3	20
Chloroform	50.0	50.4		ug/L		101	80 - 120	1	20
Chloromethane	50.0	51.2		ug/L		102	69 - 131	14	30
2-Chlorotoluene	50.0	50.9		ug/L		102	80 - 120	1	20
4-Chlorotoluene	50.0	50.9		ug/L		102	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	47.1		ug/L		94	80 - 120	2	20
Dibromochloromethane	50.0	50.4		ug/L		101	80 - 121	0	20
1,2-Dibromo-3-Chloropropane	50.0	42.0		ug/L		84	71 - 134	12	20
1,2-Dibromoethane	50.0	52.7		ug/L		105	80 - 120	4	20
Dibromomethane	50.0	50.8		ug/L		102	80 - 120	3	20
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	80 - 120	1	20
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120	1	20
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	1	20
Dichlorodifluoromethane	50.0	45.6		ug/L		91	47 - 155	7	40
1,1-Dichloroethane	50.0	47.9		ug/L		96	80 - 120	1	20
1,2-Dichloroethane	50.0	48.7		ug/L		97	80 - 120	4	50
1,1-Dichloroethene	50.0	51.8		ug/L		104	76 - 120	0	20
1,2-Dichloropropane	50.0	45.5		ug/L		91	80 - 120	0	20
1,3-Dichloropropane	50.0	48.9		ug/L		98	80 - 120	4	20
2,2-Dichloropropane	50.0	52.4		ug/L		105	76 - 126	4	20
1,1-Dichloropropene	50.0	45.9		ug/L		92	80 - 120	2	20
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120	3	20
Hexachlorobutadiene	50.0	40.2		ug/L		80	60 - 140	10	20
2-Hexanone	250	238		ug/L		95	74 - 127	5	20
Isopropylbenzene	50.0	51.6		ug/L		103	80 - 120	3	20
Methylene Chloride	50.0	50.8		ug/L		102	80 - 120	0	20
4-Methyl-2-pentanone	250	239		ug/L		95	76 - 124	4	20
Methyl tert-butyl ether	50.0	49.4		ug/L		99	80 - 120	3	20
m-Xylene & p-Xylene	50.0	50.9		ug/L		102	80 - 120	3	20
Naphthalene	50.0	39.3		ug/L		79	59 - 140	5	20
n-Butylbenzene	50.0	43.1		ug/L		86	80 - 120	4	20
N-Propylbenzene	50.0	50.1		ug/L		100	80 - 120	3	20
o-Xylene	50.0	51.0		ug/L		102	80 - 120	3	30
p-Isopropyltoluene	50.0	44.2		ug/L		88	80 - 120	4	20
sec-Butylbenzene	50.0	47.4		ug/L		95	80 - 120	5	20
Styrene	50.0	51.4		ug/L		103	80 - 120	2	20
tert-Butylbenzene	50.0	47.8		ug/L		96	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/L		108	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	80 - 120	1	20
Tetrachloroethene	50.0	56.9		ug/L		114	80 - 121	2	20
Toluene	50.0	52.1		ug/L		104	80 - 113	0	20
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	44.4		ug/L		89	80 - 120	2	30
1,2,3-Trichlorobenzene	50.0	42.7		ug/L		85	61 - 141	7	20
1,2,4-Trichlorobenzene	50.0	39.5		ug/L		79	68 - 128	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590268/5
Matrix: Water
Analysis Batch: 590268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.3		ug/L		105	80 - 120	2	20
1,1,2-Trichloroethane			50.0	48.2		ug/L		96	80 - 120	4	20
Trichloroethene			50.0	53.2		ug/L		106	80 - 120	1	20
Trichlorofluoromethane			50.0	60.2		ug/L		120	60 - 141	1	20
1,2,3-Trichloropropane			50.0	51.8		ug/L		104	80 - 123	3	30
1,2,4-Trimethylbenzene			50.0	50.4		ug/L		101	80 - 120	2	20
1,3,5-Trimethylbenzene			50.0	49.7		ug/L		99	80 - 120	3	20
Vinyl acetate			100	96.2		ug/L		96	67 - 135	1	20
Vinyl chloride			50.0	50.2		ug/L		100	71 - 128	3	20
Xylenes, Total			100	102		ug/L		102	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 680-174693-10 MS
Matrix: Water
Analysis Batch: 590268

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	35	U	1250	1220		ug/L		98	60 - 154
Benzene	2.2	U	250	241		ug/L		96	73 - 131
Bromobenzene	2.5	U	250	279		ug/L		112	79 - 124
Bromochloromethane	2.3	U	250	255		ug/L		102	77 - 122
Bromodichloromethane	2.2	U	250	240		ug/L		96	77 - 129
Bromoform	2.2	U	250	279		ug/L		112	69 - 135
Bromomethane	13	U	250	266	E	ug/L		106	20 - 180
2-Butanone (MEK)	17	U	1250	1370		ug/L		109	75 - 133
Carbon disulfide	5.0	U	250	235		ug/L		94	73 - 127
Carbon tetrachloride	1.7	U	250	241		ug/L		96	75 - 130
Chlorobenzene	1.3	U	250	264		ug/L		106	80 - 120
Chloroethane	13	U	250	306		ug/L		122	50 - 151
Chloroform	2.5	U	250	252		ug/L		101	79 - 122
Chloromethane	2.0	U	250	258		ug/L		103	63 - 126
2-Chlorotoluene	1.4	U	250	247		ug/L		99	77 - 121
4-Chlorotoluene	2.3	U	250	246		ug/L		99	80 - 120
cis-1,2-Dichloroethene	92	B	250	356		ug/L		105	80 - 122
cis-1,3-Dichloropropene	2.0	U	250	223		ug/L		89	80 - 133
Dibromochloromethane	1.6	U	250	262		ug/L		105	71 - 136
1,2-Dibromo-3-Chloropropane	5.5	U	250	250		ug/L		100	59 - 141
1,2-Dibromoethane	2.2	U	250	275		ug/L		110	77 - 131
Dibromomethane	1.8	U	250	264		ug/L		105	80 - 122
1,2-Dichlorobenzene	1.9	U	250	245		ug/L		98	80 - 120
1,3-Dichlorobenzene	2.2	U	250	245		ug/L		98	80 - 120
1,4-Dichlorobenzene	2.3	U	250	253		ug/L		101	80 - 120
Dichlorodifluoromethane	3.0	U	250	246		ug/L		99	51 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-174693-10 MS
Matrix: Water
Analysis Batch: 590268

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	1.9	U	250	236		ug/L		94	80 - 120
1,2-Dichloroethane	2.5	U	250	249		ug/L		100	75 - 130
1,1-Dichloroethene	1.9	J	250	266		ug/L		106	74 - 125
1,2-Dichloropropane	3.4	U	250	232		ug/L		93	80 - 123
1,3-Dichloropropane	1.7	U	250	247		ug/L		99	78 - 127
2,2-Dichloropropane	1.9	U	250	195		ug/L		78	72 - 133
1,1-Dichloropropene	1.7	U	250	230		ug/L		92	78 - 127
Ethylbenzene	1.7	U	250	255		ug/L		102	80 - 120
Hexachlorobutadiene	13	U F1	250	219		ug/L		88	77 - 129
2-Hexanone	10	U	1250	1290		ug/L		103	70 - 141
Isopropylbenzene	1.8	U	250	253		ug/L		101	80 - 120
Methylene Chloride	13	U	250	256		ug/L		102	76 - 129
4-Methyl-2-pentanone	11	U	1250	1260		ug/L		101	75 - 135
Methyl tert-butyl ether	1.5	U	250	253		ug/L		101	74 - 135
m-Xylene & p-Xylene	1.8	U	250	245		ug/L		98	80 - 120
Naphthalene	13	U	250	239		ug/L		96	69 - 148
n-Butylbenzene	2.4	U	250	201		ug/L		81	78 - 124
N-Propylbenzene	1.9	U	250	243		ug/L		97	80 - 120
o-Xylene	1.2	U	250	252		ug/L		101	80 - 120
p-Isopropyltoluene	2.4	U	250	215		ug/L		86	80 - 120
sec-Butylbenzene	2.1	U	250	230		ug/L		92	76 - 125
Styrene	1.4	U	250	255		ug/L		102	80 - 122
tert-Butylbenzene	2.3	U	250	231		ug/L		92	80 - 120
1,1,1,2-Tetrachloroethane	1.9	U	250	266		ug/L		107	80 - 120
1,1,2,2-Tetrachloroethane	3.1	U	250	241		ug/L		96	72 - 128
Tetrachloroethene	7.2	B	250	275		ug/L		107	77 - 123
Toluene	2.4	U	250	253		ug/L		101	80 - 122
trans-1,2-Dichloroethene	6.2		250	260		ug/L		101	78 - 123
trans-1,3-Dichloropropene	2.1	U	250	214		ug/L		86	74 - 140
1,2,3-Trichlorobenzene	13	U	250	238		ug/L		95	61 - 151
1,2,4-Trichlorobenzene	13	U	250	234		ug/L		94	77 - 131
1,1,1-Trichloroethane	1.9	U	250	258		ug/L		103	74 - 128
1,1,2-Trichloroethane	1.7	U	250	248		ug/L		99	79 - 125
Trichloroethene	38		250	308		ug/L		108	80 - 123
Trichlorofluoromethane	2.1	U	250	292		ug/L		117	58 - 145
1,2,3-Trichloropropane	2.0	U	250	276		ug/L		110	70 - 132
1,2,4-Trimethylbenzene	2.4	U	250	244		ug/L		97	80 - 124
1,3,5-Trimethylbenzene	1.6	U	250	240		ug/L		96	80 - 120
Vinyl acetate	4.1	U	500	550		ug/L		110	15 - 190
Vinyl chloride	56		250	298		ug/L		97	68 - 132
Xylenes, Total	1.2	U	500	497		ug/L		99	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-174693-10 MSD
Matrix: Water
Analysis Batch: 590268

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	35	U	1250	1130		ug/L		90	60 - 154	8	30
Benzene	2.2	U	250	233		ug/L		93	73 - 131	3	20
Bromobenzene	2.5	U	250	272		ug/L		109	79 - 124	3	20
Bromochloromethane	2.3	U	250	252		ug/L		101	77 - 122	1	20
Bromodichloromethane	2.2	U	250	234		ug/L		94	77 - 129	2	20
Bromoform	2.2	U	250	284		ug/L		114	69 - 135	2	20
Bromomethane	13	U	250	247		ug/L		99	20 - 180	7	20
2-Butanone (MEK)	17	U	1250	1440		ug/L		115	75 - 133	5	20
Carbon disulfide	5.0	U	250	202		ug/L		81	73 - 127	15	20
Carbon tetrachloride	1.7	U	250	241		ug/L		96	75 - 130	0	20
Chlorobenzene	1.3	U	250	260		ug/L		104	80 - 120	2	20
Chloroethane	13	U	250	258		ug/L		103	50 - 151	17	20
Chloroform	2.5	U	250	246		ug/L		98	79 - 122	3	20
Chloromethane	2.0	U	250	219		ug/L		87	63 - 126	17	30
2-Chlorotoluene	1.4	U	250	241		ug/L		96	77 - 121	2	20
4-Chlorotoluene	2.3	U	250	240		ug/L		96	80 - 120	2	20
cis-1,2-Dichloroethene	92	B	250	353		ug/L		104	80 - 122	1	20
cis-1,3-Dichloropropene	2.0	U	250	220		ug/L		88	80 - 133	1	20
Dibromochloromethane	1.6	U	250	253		ug/L		101	71 - 136	4	20
1,2-Dibromo-3-Chloropropane	5.5	U	250	233		ug/L		93	59 - 141	7	20
1,2-Dibromoethane	2.2	U	250	269		ug/L		108	77 - 131	2	20
Dibromomethane	1.8	U	250	262		ug/L		105	80 - 122	0	20
1,2-Dichlorobenzene	1.9	U	250	242		ug/L		97	80 - 120	1	20
1,3-Dichlorobenzene	2.2	U	250	243		ug/L		97	80 - 120	1	20
1,4-Dichlorobenzene	2.3	U	250	250		ug/L		100	80 - 120	1	20
Dichlorodifluoromethane	3.0	U	250	207		ug/L		83	51 - 140	17	40
1,1-Dichloroethane	1.9	U	250	230		ug/L		92	80 - 120	3	20
1,2-Dichloroethane	2.5	U	250	244		ug/L		97	75 - 130	2	50
1,1-Dichloroethene	1.9	J	250	232		ug/L		92	74 - 125	14	20
1,2-Dichloropropane	3.4	U	250	229		ug/L		92	80 - 123	1	20
1,3-Dichloropropane	1.7	U	250	245		ug/L		98	78 - 127	1	20
2,2-Dichloropropane	1.9	U	250	191		ug/L		76	72 - 133	3	20
1,1-Dichloropropene	1.7	U	250	227		ug/L		91	78 - 127	2	20
Ethylbenzene	1.7	U	250	252		ug/L		101	80 - 120	1	20
Hexachlorobutadiene	13	U F1	250	190	F1	ug/L		76	77 - 129	14	20
2-Hexanone	10	U	1250	1340		ug/L		107	70 - 141	4	20
Isopropylbenzene	1.8	U	250	245		ug/L		98	80 - 120	3	20
Methylene Chloride	13	U	250	254		ug/L		101	76 - 129	1	20
4-Methyl-2-pentanone	11	U	1250	1320		ug/L		105	75 - 135	4	20
Methyl tert-butyl ether	1.5	U	250	252		ug/L		101	74 - 135	0	20
m-Xylene & p-Xylene	1.8	U	250	244		ug/L		98	80 - 120	0	20
Naphthalene	13	U	250	214		ug/L		86	69 - 148	11	20
n-Butylbenzene	2.4	U	250	199		ug/L		80	78 - 124	1	20
N-Propylbenzene	1.9	U	250	236		ug/L		95	80 - 120	3	20
o-Xylene	1.2	U	250	248		ug/L		99	80 - 120	2	30
p-Isopropyltoluene	2.4	U	250	208		ug/L		83	80 - 120	3	20
sec-Butylbenzene	2.1	U	250	222		ug/L		89	76 - 125	3	20
Styrene	1.4	U	250	251		ug/L		100	80 - 122	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-174693-10 MSD
Matrix: Water
Analysis Batch: 590268

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	2.3	U	250	223		ug/L		89	80 - 120	4	20
1,1,1,2-Tetrachloroethane	1.9	U	250	262		ug/L		105	80 - 120	2	20
1,1,2,2-Tetrachloroethane	3.1	U	250	246		ug/L		99	72 - 128	2	20
Tetrachloroethene	7.2	B	250	272		ug/L		106	77 - 123	1	20
Toluene	2.4	U	250	251		ug/L		100	80 - 122	1	20
trans-1,2-Dichloroethene	6.2		250	246		ug/L		96	78 - 123	5	20
trans-1,3-Dichloropropene	2.1	U	250	209		ug/L		83	74 - 140	3	30
1,2,3-Trichlorobenzene	13	U	250	212		ug/L		85	61 - 151	12	20
1,2,4-Trichlorobenzene	13	U	250	208		ug/L		83	77 - 131	12	20
1,1,1-Trichloroethane	1.9	U	250	249		ug/L		100	74 - 128	3	20
1,1,2-Trichloroethane	1.7	U	250	243		ug/L		97	79 - 125	2	20
Trichloroethene	38		250	316		ug/L		111	80 - 123	3	20
Trichlorofluoromethane	2.1	U	250	285		ug/L		114	58 - 145	3	20
1,2,3-Trichloropropane	2.0	U	250	277		ug/L		111	70 - 132	0	30
1,2,4-Trimethylbenzene	2.4	U	250	235		ug/L		94	80 - 124	3	20
1,3,5-Trimethylbenzene	1.6	U	250	234		ug/L		93	80 - 120	3	20
Vinyl acetate	4.1	U	500	538		ug/L		108	15 - 190	2	20
Vinyl chloride	56		250	243		ug/L		75	68 - 132	20	20
Xylenes, Total	1.2	U	500	492		ug/L		98	80 - 120	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-590745/9
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/14/19 12:56	1
Benzene	0.43	U	1.0	0.43	ug/L			10/14/19 12:56	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/14/19 12:56	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/14/19 12:56	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/14/19 12:56	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/14/19 12:56	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/14/19 12:56	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/14/19 12:56	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/14/19 12:56	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/14/19 12:56	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/14/19 12:56	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/14/19 12:56	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/14/19 12:56	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/14/19 12:56	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/14/19 12:56	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-590745/9
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/14/19 12:56	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/14/19 12:56	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/14/19 12:56	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/14/19 12:56	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/14/19 12:56	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/14/19 12:56	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/14/19 12:56	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/14/19 12:56	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/14/19 12:56	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/14/19 12:56	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/14/19 12:56	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/14/19 12:56	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/14/19 12:56	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/14/19 12:56	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/14/19 12:56	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/14/19 12:56	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/14/19 12:56	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/14/19 12:56	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/14/19 12:56	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/14/19 12:56	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/14/19 12:56	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/14/19 12:56	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/14/19 12:56	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/14/19 12:56	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/14/19 12:56	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/14/19 12:56	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/14/19 12:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/14/19 12:56	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/14/19 12:56	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/14/19 12:56	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/14/19 12:56	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/14/19 12:56	1
Toluene	0.48	U	1.0	0.48	ug/L			10/14/19 12:56	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/14/19 12:56	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/14/19 12:56	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/14/19 12:56	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/14/19 12:56	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/14/19 12:56	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/14/19 12:56	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/14/19 12:56	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/14/19 12:56	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/14/19 12:56	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/14/19 12:56	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/14/19 12:56	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/14/19 12:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-590745/9
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/14/19 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*10/14/19 12:56*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*10/14/19 12:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*10/14/19 12:56*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/14/19 12:56*	*1*

Lab Sample ID: LCS 680-590745/3
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	223		ug/L		89	70 - 135
Benzene	50.0	51.1		ug/L		102	80 - 120
Bromobenzene	50.0	54.9		ug/L		110	80 - 121
Bromochloromethane	50.0	53.9		ug/L		108	80 - 120
Bromodichloromethane	50.0	54.3		ug/L		109	80 - 120
Bromoform	50.0	53.9		ug/L		108	74 - 126
Bromomethane	50.0	40.1		ug/L		80	62 - 130
2-Butanone (MEK)	251	231		ug/L		92	80 - 131
Carbon disulfide	50.0	54.6		ug/L		109	80 - 120
Carbon tetrachloride	50.0	58.8		ug/L		118	76 - 123
Chlorobenzene	50.0	52.1		ug/L		104	80 - 120
Chloroethane	50.0	45.6		ug/L		91	66 - 135
Chloroform	50.0	56.0		ug/L		112	80 - 120
Chloromethane	50.0	45.8		ug/L		92	69 - 131
2-Chlorotoluene	50.0	53.1		ug/L		106	80 - 120
4-Chlorotoluene	50.0	53.2		ug/L		106	80 - 120
cis-1,2-Dichloroethene	50.0	56.0		ug/L		112	80 - 120
cis-1,3-Dichloropropene	50.0	53.8		ug/L		108	80 - 120
Dibromochloromethane	50.0	54.2		ug/L		108	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	52.5		ug/L		105	80 - 120
Dibromomethane	50.0	51.9		ug/L		104	80 - 120
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 120
1,3-Dichlorobenzene	50.0	52.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
Dichlorodifluoromethane	50.0	49.5		ug/L		99	47 - 155
1,1-Dichloroethane	50.0	56.1		ug/L		112	80 - 120
1,2-Dichloroethane	50.0	55.0		ug/L		110	80 - 120
1,1-Dichloroethene	50.0	54.8		ug/L		110	76 - 120
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	50.8		ug/L		102	80 - 120
2,2-Dichloropropane	50.0	68.7	*	ug/L		137	76 - 126
1,1-Dichloropropene	50.0	58.4		ug/L		117	80 - 120
Ethylbenzene	50.0	56.1		ug/L		112	80 - 120
Hexachlorobutadiene	50.0	60.3		ug/L		121	60 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-590745/3
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	244		ug/L		98	74 - 127
Isopropylbenzene	50.0	55.8		ug/L		112	80 - 120
Methylene Chloride	50.0	54.1		ug/L		108	80 - 120
4-Methyl-2-pentanone	250	246		ug/L		98	76 - 124
Methyl tert-butyl ether	50.0	52.7		ug/L		105	80 - 120
m-Xylene & p-Xylene	50.0	55.8		ug/L		112	80 - 120
Naphthalene	50.0	50.8		ug/L		102	59 - 140
n-Butylbenzene	50.0	53.2		ug/L		106	80 - 120
N-Propylbenzene	50.0	55.1		ug/L		110	80 - 120
o-Xylene	50.0	54.3		ug/L		109	80 - 120
p-Isopropyltoluene	50.0	54.2		ug/L		108	80 - 120
sec-Butylbenzene	50.0	57.4		ug/L		115	80 - 120
Styrene	50.0	54.5		ug/L		109	80 - 120
tert-Butylbenzene	50.0	56.0		ug/L		112	80 - 121
1,1,1,2-Tetrachloroethane	50.0	57.3		ug/L		115	80 - 121
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	80 - 120
Tetrachloroethene	50.0	61.4	*	ug/L		123	80 - 121
Toluene	50.0	53.9		ug/L		108	80 - 113
trans-1,2-Dichloroethene	50.0	56.4		ug/L		113	80 - 120
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 120
1,2,3-Trichlorobenzene	50.0	56.3		ug/L		113	61 - 141
1,2,4-Trichlorobenzene	50.0	55.8		ug/L		112	68 - 128
1,1,1-Trichloroethane	50.0	61.6	*	ug/L		123	80 - 120
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	80 - 120
Trichloroethene	50.0	57.0		ug/L		114	80 - 120
Trichlorofluoromethane	50.0	49.4		ug/L		99	60 - 141
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	80 - 123
1,2,4-Trimethylbenzene	50.0	54.4		ug/L		109	80 - 120
1,3,5-Trimethylbenzene	50.0	54.6		ug/L		109	80 - 120
Vinyl acetate	100	116		ug/L		116	67 - 135
Vinyl chloride	50.0	46.9		ug/L		94	71 - 128
Xylenes, Total	100	110		ug/L		110	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: LCSD 680-590745/4
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	212		ug/L		84	70 - 135	5	30
Benzene	50.0	50.9		ug/L		102	80 - 120	0	20
Bromobenzene	50.0	55.6		ug/L		111	80 - 121	1	20
Bromochloromethane	50.0	52.4		ug/L		105	80 - 120	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590745/4
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	50.0	52.6		ug/L		105	80 - 120	3	20
Bromoform	50.0	52.5		ug/L		105	74 - 126	3	20
Bromomethane	50.0	41.6		ug/L		83	62 - 130	4	20
2-Butanone (MEK)	251	224		ug/L		89	80 - 131	3	20
Carbon disulfide	50.0	55.5		ug/L		111	80 - 120	2	20
Carbon tetrachloride	50.0	59.9		ug/L		120	76 - 123	2	20
Chlorobenzene	50.0	52.0		ug/L		104	80 - 120	0	20
Chloroethane	50.0	46.5		ug/L		93	66 - 135	2	20
Chloroform	50.0	55.3		ug/L		111	80 - 120	1	20
Chloromethane	50.0	46.8		ug/L		94	69 - 131	2	30
2-Chlorotoluene	50.0	54.4		ug/L		109	80 - 120	2	20
4-Chlorotoluene	50.0	53.9		ug/L		108	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	80 - 120	2	20
Dibromochloromethane	50.0	52.5		ug/L		105	80 - 121	3	20
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/L		97	71 - 134	1	20
1,2-Dibromoethane	50.0	50.6		ug/L		101	80 - 120	4	20
Dibromomethane	50.0	50.4		ug/L		101	80 - 120	3	20
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	80 - 120	1	20
1,3-Dichlorobenzene	50.0	52.3		ug/L		105	80 - 120	0	20
1,4-Dichlorobenzene	50.0	51.2		ug/L		102	80 - 120	1	20
Dichlorodifluoromethane	50.0	50.9		ug/L		102	47 - 155	3	40
1,1-Dichloroethane	50.0	55.3		ug/L		111	80 - 120	1	20
1,2-Dichloroethane	50.0	53.2		ug/L		106	80 - 120	3	50
1,1-Dichloroethene	50.0	55.9		ug/L		112	76 - 120	2	20
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 120	2	20
1,3-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	2	20
2,2-Dichloropropane	50.0	68.4	*	ug/L		137	76 - 126	0	20
1,1-Dichloropropene	50.0	59.3		ug/L		119	80 - 120	2	20
Ethylbenzene	50.0	56.9		ug/L		114	80 - 120	1	20
Hexachlorobutadiene	50.0	62.1		ug/L		124	60 - 140	3	20
2-Hexanone	250	236		ug/L		94	74 - 127	4	20
Isopropylbenzene	50.0	57.4		ug/L		115	80 - 120	3	20
Methylene Chloride	50.0	52.6		ug/L		105	80 - 120	3	20
4-Methyl-2-pentanone	250	238		ug/L		95	76 - 124	3	20
Methyl tert-butyl ether	50.0	50.7		ug/L		101	80 - 120	4	20
m-Xylene & p-Xylene	50.0	56.3		ug/L		113	80 - 120	1	20
Naphthalene	50.0	50.6		ug/L		101	59 - 140	0	20
n-Butylbenzene	50.0	55.0		ug/L		110	80 - 120	3	20
N-Propylbenzene	50.0	56.9		ug/L		114	80 - 120	3	20
o-Xylene	50.0	54.9		ug/L		110	80 - 120	1	30
p-Isopropyltoluene	50.0	55.7		ug/L		111	80 - 120	3	20
sec-Butylbenzene	50.0	60.1		ug/L		120	80 - 120	5	20
Styrene	50.0	54.5		ug/L		109	80 - 120	0	20
tert-Butylbenzene	50.0	57.8		ug/L		116	80 - 121	3	20
1,1,1,2-Tetrachloroethane	50.0	57.4		ug/L		115	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	80 - 120	1	20
Tetrachloroethene	50.0	61.9	*	ug/L		124	80 - 121	1	20
Toluene	50.0	53.9		ug/L		108	80 - 113	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590745/4
Matrix: Water
Analysis Batch: 590745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	56.3		ug/L		113	80 - 120	0	20
trans-1,3-Dichloropropene			50.0	50.6		ug/L		101	80 - 120	4	30
1,2,3-Trichlorobenzene			50.0	56.6		ug/L		113	61 - 141	1	20
1,2,4-Trichlorobenzene			50.0	55.7		ug/L		111	68 - 128	0	20
1,1,1-Trichloroethane			50.0	62.0	*	ug/L		124	80 - 120	1	20
1,1,2-Trichloroethane			50.0	48.6		ug/L		97	80 - 120	2	20
Trichloroethene			50.0	57.4		ug/L		115	80 - 120	1	20
Trichlorofluoromethane			50.0	51.1		ug/L		102	60 - 141	3	20
1,2,3-Trichloropropane			50.0	51.2		ug/L		102	80 - 123	0	30
1,2,4-Trimethylbenzene			50.0	55.4		ug/L		111	80 - 120	2	20
1,3,5-Trimethylbenzene			50.0	56.3		ug/L		113	80 - 120	3	20
Vinyl acetate			100	112		ug/L		111	67 - 135	4	20
Vinyl chloride			50.0	47.9		ug/L		96	71 - 128	2	20
Xylenes, Total			100	111		ug/L		111	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 680-590748/9
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			10/14/19 12:47	1
Benzene	0.43	U	1.0	0.43	ug/L			10/14/19 12:47	1
Bromobenzene	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			10/14/19 12:47	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			10/14/19 12:47	1
Bromoform	0.43	U	1.0	0.43	ug/L			10/14/19 12:47	1
Bromomethane	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			10/14/19 12:47	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			10/14/19 12:47	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			10/14/19 12:47	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			10/14/19 12:47	1
Chloroethane	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/14/19 12:47	1
2-Chlorotoluene	0.27	U	1.0	0.27	ug/L			10/14/19 12:47	1
4-Chlorotoluene	0.45	U	1.0	0.45	ug/L			10/14/19 12:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/14/19 12:47	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			10/14/19 12:47	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			10/14/19 12:47	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			10/14/19 12:47	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			10/14/19 12:47	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			10/14/19 12:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-590748/9
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			10/14/19 12:47	1
1,3-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/14/19 12:47	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			10/14/19 12:47	1
Dichlorodifluoromethane	0.60	U	1.0	0.60	ug/L			10/14/19 12:47	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			10/14/19 12:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/14/19 12:47	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			10/14/19 12:47	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			10/14/19 12:47	1
2,2-Dichloropropane	0.37	U	1.0	0.37	ug/L			10/14/19 12:47	1
1,1-Dichloropropene	0.34	U	1.0	0.34	ug/L			10/14/19 12:47	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			10/14/19 12:47	1
Hexachlorobutadiene	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
2-Hexanone	2.0	U	10	2.0	ug/L			10/14/19 12:47	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			10/14/19 12:47	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
4-Methyl-2-pentanone	2.1	U	10	2.1	ug/L			10/14/19 12:47	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			10/14/19 12:47	1
m-Xylene & p-Xylene	0.35	U	1.0	0.35	ug/L			10/14/19 12:47	1
Naphthalene	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
n-Butylbenzene	0.47	U	1.0	0.47	ug/L			10/14/19 12:47	1
N-Propylbenzene	0.38	U	1.0	0.38	ug/L			10/14/19 12:47	1
o-Xylene	0.23	U	1.0	0.23	ug/L			10/14/19 12:47	1
p-Isopropyltoluene	0.48	U	1.0	0.48	ug/L			10/14/19 12:47	1
sec-Butylbenzene	0.42	U	1.0	0.42	ug/L			10/14/19 12:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/14/19 12:47	1
tert-Butylbenzene	0.45	U	1.0	0.45	ug/L			10/14/19 12:47	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			10/14/19 12:47	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/14/19 12:47	1
Tetrachloroethene	0.74	U	1.0	0.74	ug/L			10/14/19 12:47	1
Toluene	0.48	U	1.0	0.48	ug/L			10/14/19 12:47	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/14/19 12:47	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			10/14/19 12:47	1
1,2,3-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
1,2,4-Trichlorobenzene	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			10/14/19 12:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/14/19 12:47	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/14/19 12:47	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			10/14/19 12:47	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			10/14/19 12:47	1
1,2,4-Trimethylbenzene	0.47	U	1.0	0.47	ug/L			10/14/19 12:47	1
1,3,5-Trimethylbenzene	0.31	U	1.0	0.31	ug/L			10/14/19 12:47	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			10/14/19 12:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/14/19 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/14/19 12:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-590748/9
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*10/14/19 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*10/14/19 12:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/19 12:47*	*1*

Lab Sample ID: LCS 680-590748/3
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	240		ug/L		96	70 - 135
Benzene	50.0	52.6		ug/L		105	80 - 120
Bromobenzene	50.0	49.7		ug/L		99	80 - 121
Bromochloromethane	50.0	58.4		ug/L		117	80 - 120
Bromodichloromethane	50.0	55.3		ug/L		111	80 - 120
Bromoform	50.0	50.7		ug/L		101	74 - 126
Bromomethane	50.0	47.7		ug/L		95	62 - 130
2-Butanone (MEK)	251	265		ug/L		106	80 - 131
Carbon disulfide	50.0	54.0		ug/L		108	80 - 120
Carbon tetrachloride	50.0	58.0		ug/L		116	76 - 123
Chlorobenzene	50.0	52.8		ug/L		106	80 - 120
Chloroethane	50.0	55.0		ug/L		110	66 - 135
Chloroform	50.0	54.3		ug/L		109	80 - 120
Chloromethane	50.0	61.2		ug/L		122	69 - 131
2-Chlorotoluene	50.0	52.3		ug/L		105	80 - 120
4-Chlorotoluene	50.0	55.2		ug/L		110	80 - 120
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
cis-1,3-Dichloropropene	50.0	55.9		ug/L		112	80 - 120
Dibromochloromethane	50.0	50.7		ug/L		101	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.7		ug/L		107	71 - 134
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120
Dibromomethane	50.0	56.7		ug/L		113	80 - 120
1,2-Dichlorobenzene	50.0	53.3		ug/L		107	80 - 120
1,3-Dichlorobenzene	50.0	54.3		ug/L		109	80 - 120
1,4-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120
Dichlorodifluoromethane	50.0	59.1		ug/L		118	47 - 155
1,1-Dichloroethane	50.0	53.8		ug/L		108	80 - 120
1,2-Dichloroethane	50.0	57.5		ug/L		115	80 - 120
1,1-Dichloroethene	50.0	54.1		ug/L		108	76 - 120
1,2-Dichloropropane	50.0	53.5		ug/L		107	80 - 120
1,3-Dichloropropane	50.0	53.6		ug/L		107	80 - 120
2,2-Dichloropropane	50.0	62.6		ug/L		125	76 - 126
1,1-Dichloropropene	50.0	56.0		ug/L		112	80 - 120
Ethylbenzene	50.0	52.9		ug/L		106	80 - 120
Hexachlorobutadiene	50.0	55.6		ug/L		111	60 - 140
2-Hexanone	250	246		ug/L		98	74 - 127
Isopropylbenzene	50.0	53.1		ug/L		106	80 - 120
Methylene Chloride	50.0	48.8		ug/L		98	80 - 120
4-Methyl-2-pentanone	250	273		ug/L		109	76 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-590748/3
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	52.0		ug/L		104	80 - 120
m-Xylene & p-Xylene	50.0	54.2		ug/L		108	80 - 120
Naphthalene	50.0	50.6		ug/L		101	59 - 140
n-Butylbenzene	50.0	56.0		ug/L		112	80 - 120
N-Propylbenzene	50.0	53.9		ug/L		108	80 - 120
o-Xylene	50.0	52.9		ug/L		106	80 - 120
p-Isopropyltoluene	50.0	54.0		ug/L		108	80 - 120
sec-Butylbenzene	50.0	52.1		ug/L		104	80 - 120
Styrene	50.0	55.7		ug/L		111	80 - 120
tert-Butylbenzene	50.0	51.6		ug/L		103	80 - 121
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/L		101	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120
Tetrachloroethene	50.0	52.8		ug/L		106	80 - 121
Toluene	50.0	55.4		ug/L		111	80 - 113
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 120
trans-1,3-Dichloropropene	50.0	56.6		ug/L		113	80 - 120
1,2,3-Trichlorobenzene	50.0	53.9		ug/L		108	61 - 141
1,2,4-Trichlorobenzene	50.0	54.0		ug/L		108	68 - 128
1,1,1-Trichloroethane	50.0	56.1		ug/L		112	80 - 120
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	80 - 120
Trichloroethene	50.0	53.8		ug/L		108	80 - 120
Trichlorofluoromethane	50.0	61.7		ug/L		123	60 - 141
1,2,3-Trichloropropane	50.0	53.7		ug/L		107	80 - 123
1,2,4-Trimethylbenzene	50.0	52.4		ug/L		105	80 - 120
1,3,5-Trimethylbenzene	50.0	52.8		ug/L		106	80 - 120
Vinyl acetate	100	122		ug/L		122	67 - 135
Vinyl chloride	50.0	55.4		ug/L		111	71 - 128
Xylenes, Total	100	107		ug/L		107	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: LCSD 680-590748/4
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	249		ug/L		99	70 - 135	3	30
Benzene	50.0	52.4		ug/L		105	80 - 120	0	20
Bromobenzene	50.0	49.3		ug/L		99	80 - 121	1	20
Bromochloromethane	50.0	59.0		ug/L		118	80 - 120	1	20
Bromodichloromethane	50.0	55.8		ug/L		112	80 - 120	1	20
Bromoform	50.0	51.8		ug/L		104	74 - 126	2	20
Bromomethane	50.0	47.8		ug/L		96	62 - 130	0	20
2-Butanone (MEK)	251	265		ug/L		106	80 - 131	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590748/4
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	50.0	53.8		ug/L		108	80 - 120	0	20
Carbon tetrachloride	50.0	57.3		ug/L		115	76 - 123	1	20
Chlorobenzene	50.0	52.6		ug/L		105	80 - 120	0	20
Chloroethane	50.0	54.2		ug/L		108	66 - 135	1	20
Chloroform	50.0	54.9		ug/L		110	80 - 120	1	20
Chloromethane	50.0	62.4		ug/L		125	69 - 131	2	30
2-Chlorotoluene	50.0	52.0		ug/L		104	80 - 120	1	20
4-Chlorotoluene	50.0	52.7		ug/L		105	80 - 120	5	20
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	55.9		ug/L		112	80 - 120	0	20
Dibromochloromethane	50.0	49.9		ug/L		100	80 - 121	2	20
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/L		109	71 - 134	2	20
1,2-Dibromoethane	50.0	50.4		ug/L		101	80 - 120	0	20
Dibromomethane	50.0	56.8		ug/L		114	80 - 120	0	20
1,2-Dichlorobenzene	50.0	54.7		ug/L		109	80 - 120	3	20
1,3-Dichlorobenzene	50.0	54.9		ug/L		110	80 - 120	1	20
1,4-Dichlorobenzene	50.0	53.3		ug/L		107	80 - 120	2	20
Dichlorodifluoromethane	50.0	59.7		ug/L		119	47 - 155	1	40
1,1-Dichloroethane	50.0	54.3		ug/L		109	80 - 120	1	20
1,2-Dichloroethane	50.0	56.6		ug/L		113	80 - 120	2	50
1,1-Dichloroethene	50.0	54.7		ug/L		109	76 - 120	1	20
1,2-Dichloropropane	50.0	54.6		ug/L		109	80 - 120	2	20
1,3-Dichloropropane	50.0	53.0		ug/L		106	80 - 120	1	20
2,2-Dichloropropane	50.0	60.9		ug/L		122	76 - 126	3	20
1,1-Dichloropropene	50.0	55.1		ug/L		110	80 - 120	2	20
Ethylbenzene	50.0	53.0		ug/L		106	80 - 120	0	20
Hexachlorobutadiene	50.0	55.4		ug/L		111	60 - 140	0	20
2-Hexanone	250	250		ug/L		100	74 - 127	2	20
Isopropylbenzene	50.0	53.0		ug/L		106	80 - 120	0	20
Methylene Chloride	50.0	48.6		ug/L		97	80 - 120	1	20
4-Methyl-2-pentanone	250	276		ug/L		110	76 - 124	1	20
Methyl tert-butyl ether	50.0	52.1		ug/L		104	80 - 120	0	20
m-Xylene & p-Xylene	50.0	53.3		ug/L		107	80 - 120	2	20
Naphthalene	50.0	50.8		ug/L		102	59 - 140	0	20
n-Butylbenzene	50.0	56.4		ug/L		113	80 - 120	1	20
N-Propylbenzene	50.0	53.6		ug/L		107	80 - 120	0	20
o-Xylene	50.0	52.8		ug/L		106	80 - 120	0	30
p-Isopropyltoluene	50.0	54.7		ug/L		109	80 - 120	1	20
sec-Butylbenzene	50.0	51.3		ug/L		103	80 - 120	2	20
Styrene	50.0	56.2		ug/L		112	80 - 120	1	20
tert-Butylbenzene	50.0	51.1		ug/L		102	80 - 121	1	20
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	80 - 120	2	20
Tetrachloroethene	50.0	50.9		ug/L		102	80 - 121	4	20
Toluene	50.0	54.4		ug/L		109	80 - 113	2	20
trans-1,2-Dichloroethene	50.0	53.8		ug/L		108	80 - 120	0	20
trans-1,3-Dichloropropene	50.0	56.9		ug/L		114	80 - 120	0	30
1,2,3-Trichlorobenzene	50.0	53.1		ug/L		106	61 - 141	1	20
1,2,4-Trichlorobenzene	50.0	54.3		ug/L		109	68 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590748/4
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	55.3		ug/L		111	80 - 120	1	20
1,1,2-Trichloroethane			50.0	53.2		ug/L		106	80 - 120	1	20
Trichloroethene			50.0	53.3		ug/L		107	80 - 120	1	20
Trichlorofluoromethane			50.0	60.0		ug/L		120	60 - 141	3	20
1,2,3-Trichloropropane			50.0	52.8		ug/L		106	80 - 123	2	30
1,2,4-Trimethylbenzene			50.0	52.0		ug/L		104	80 - 120	1	20
1,3,5-Trimethylbenzene			50.0	52.0		ug/L		104	80 - 120	1	20
Vinyl acetate			100	122		ug/L		121	67 - 135	0	20
Vinyl chloride			50.0	55.2		ug/L		110	71 - 128	0	20
Xylenes, Total			100	106		ug/L		106	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Lab Sample ID: 680-174693-10 MS
Matrix: Water
Analysis Batch: 590745

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone - RA	35	U H	1250	1220	H	ug/L		98	60 - 154
Benzene - RA	2.2	U H	250	247	H	ug/L		99	73 - 131
Bromobenzene - RA	2.5	U H	250	277	H	ug/L		111	79 - 124
Bromochloromethane - RA	2.3	U H	250	285	H	ug/L		114	77 - 122
Bromodichloromethane - RA	2.2	U H	250	278	H	ug/L		111	77 - 129
Bromoform - RA	2.2	U H	250	278	H	ug/L		111	69 - 135
Bromomethane - RA	13	U H	250	200	H	ug/L		80	20 - 180
2-Butanone (MEK) - RA	17	U H	1250	1270	H	ug/L		102	75 - 133
Carbon disulfide - RA	5.0	U H	250	240	H	ug/L		96	73 - 127
Carbon tetrachloride - RA	1.7	U H	250	265	H	ug/L		106	75 - 130
Chlorobenzene - RA	1.3	U H	250	253	H	ug/L		101	80 - 120
Chloroethane - RA	13	U H	250	211	H	ug/L		84	50 - 151
Chloroform - RA	2.5	U H	250	280	H	ug/L		112	79 - 122
Chloromethane - RA	2.0	U H	250	193	H	ug/L		77	63 - 126
2-Chlorotoluene - RA	1.4	U H	250	253	H	ug/L		101	77 - 121
4-Chlorotoluene - RA	2.3	U H	250	254	H	ug/L		102	80 - 120
cis-1,2-Dichloroethene - RA	140	H F1	250	367	H	ug/L		89	80 - 122
cis-1,3-Dichloropropene - RA	2.0	U H	250	266	H	ug/L		106	80 - 133
Dibromochloromethane - RA	1.6	U H	250	287	H	ug/L		115	71 - 136
1,2-Dibromo-3-Chloropropane - RA	5.5	U H	250	265	H	ug/L		106	59 - 141
1,2-Dibromoethane - RA	2.2	U H	250	282	H	ug/L		113	77 - 131
Dibromomethane - RA	1.8	U H	250	279	H	ug/L		111	80 - 122
1,2-Dichlorobenzene - RA	1.9	U H	250	253	H	ug/L		101	80 - 120
1,3-Dichlorobenzene - RA	2.2	U H	250	250	H	ug/L		100	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Lab Sample ID: 680-174693-10 MS
Matrix: Water
Analysis Batch: 590745

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene - RA	2.3	U H	250	249	H	ug/L		100	80 - 120
Dichlorodifluoromethane - RA	3.0	U H	250	186	H	ug/L		74	51 - 140
1,1-Dichloroethane - RA	1.9	U H	250	271	H	ug/L		108	80 - 120
1,2-Dichloroethane - RA	2.5	U H	250	292	H	ug/L		117	75 - 130
1,1-Dichloroethene - RA	3.8	J H	250	246	H	ug/L		97	74 - 125
1,2-Dichloropropane - RA	3.4	U H	250	263	H	ug/L		105	80 - 123
1,3-Dichloropropane - RA	1.7	U H	250	273	H	ug/L		109	78 - 127
2,2-Dichloropropane - RA	1.9	U * H	250	241	H	ug/L		96	72 - 133
1,1-Dichloropropene - RA	1.7	U H	250	261	H	ug/L		104	78 - 127
Ethylbenzene - RA	1.7	U H	250	260	H	ug/L		104	80 - 120
Hexachlorobutadiene - RA	13	U H	250	257	H	ug/L		103	77 - 129
2-Hexanone - RA	10	U H	1250	1370	H	ug/L		109	70 - 141
Isopropylbenzene - RA	1.8	U H	250	256	H	ug/L		102	80 - 120
Methylene Chloride - RA	13	U H	250	272	H	ug/L		109	76 - 129
4-Methyl-2-pentanone - RA	11	U H	1250	1360	H	ug/L		109	75 - 135
Methyl tert-butyl ether - RA	1.5	U H	250	282	H	ug/L		113	74 - 135
m-Xylene & p-Xylene - RA	1.8	U H	250	259	H	ug/L		104	80 - 120
Naphthalene - RA	13	U H	250	263	H	ug/L		105	69 - 148
n-Butylbenzene - RA	2.4	U H	250	231	H	ug/L		92	78 - 124
N-Propylbenzene - RA	1.9	U H	250	252	H	ug/L		101	80 - 120
o-Xylene - RA	1.2	U H	250	260	H	ug/L		104	80 - 120
p-Isopropyltoluene - RA	2.4	U H	250	240	H	ug/L		96	80 - 120
sec-Butylbenzene - RA	2.1	U H	250	257	H	ug/L		103	76 - 125
Styrene - RA	1.4	U H	250	265	H	ug/L		106	80 - 122
tert-Butylbenzene - RA	2.3	U H	250	257	H	ug/L		103	80 - 120
1,1,1,2-Tetrachloroethane - RA	1.9	U H	250	282	H	ug/L		113	80 - 120
1,1,2,2-Tetrachloroethane - RA	3.1	U H	250	264	H	ug/L		106	72 - 128
Tetrachloroethene - RA	3.7	U * H	250	278	H	ug/L		111	77 - 123
Toluene - RA	2.4	U H	250	260	H	ug/L		104	80 - 122
trans-1,2-Dichloroethene - RA	6.4	H	250	268	H	ug/L		105	78 - 123
trans-1,3-Dichloropropene - RA	2.1	U H	250	264	H	ug/L		106	74 - 140
1,2,3-Trichlorobenzene - RA	13	U H	250	277	H	ug/L		111	61 - 151
1,2,4-Trichlorobenzene - RA	13	U H	250	264	H	ug/L		106	77 - 131
1,1,1-Trichloroethane - RA	1.9	U * H	250	284	H	ug/L		114	74 - 128
1,1,2-Trichloroethane - RA	1.7	U H	250	268	H	ug/L		107	79 - 125
Trichloroethene - RA	68	H F1	250	316	H	ug/L		99	80 - 123
Trichlorofluoromethane - RA	2.1	U H	250	214	H	ug/L		86	58 - 145
1,2,3-Trichloropropane - RA	2.0	U H	250	277	H	ug/L		111	70 - 132
1,2,4-Trimethylbenzene - RA	2.4	U H	250	256	H	ug/L		102	80 - 124
1,3,5-Trimethylbenzene - RA	1.6	U H	250	255	H	ug/L		102	80 - 120
Vinyl acetate - RA	4.1	U H	501	631	H	ug/L		126	15 - 190
Vinyl chloride - RA	38	H F1	250	232	H	ug/L		78	68 - 132
Xylenes, Total - RA	1.2	U H	500	519	H	ug/L		104	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr) - RA	*92*		*80 - 120*
Dibromofluoromethane (Surr) - RA	*116*		*80 - 122*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Lab Sample ID: 680-174693-10 MS
Matrix: Water
Analysis Batch: 590745

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - RA	*113*		*73 - 131*
Toluene-d8 (Surr) - RA	*104*		*80 - 120*

Lab Sample ID: 680-174693-10 MSD
Matrix: Water
Analysis Batch: 590745

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone - RA	35	U H	1250	1210	H	ug/L		96	60 - 154	2	30
Benzene - RA	2.2	U H	250	241	H	ug/L		96	73 - 131	3	20
Bromobenzene - RA	2.5	U H	250	267	H	ug/L		107	79 - 124	4	20
Bromochloromethane - RA	2.3	U H	250	280	H	ug/L		112	77 - 122	2	20
Bromodichloromethane - RA	2.2	U H	250	270	H	ug/L		108	77 - 129	3	20
Bromoform - RA	2.2	U H	250	272	H	ug/L		109	69 - 135	2	20
Bromomethane - RA	13	U H	250	198	H	ug/L		79	20 - 180	1	20
2-Butanone (MEK) - RA	17	U H	1250	1260	H	ug/L		101	75 - 133	1	20
Carbon disulfide - RA	5.0	U H	250	230	H	ug/L		92	73 - 127	4	20
Carbon tetrachloride - RA	1.7	U H	250	256	H	ug/L		102	75 - 130	3	20
Chlorobenzene - RA	1.3	U H	250	247	H	ug/L		99	80 - 120	2	20
Chloroethane - RA	13	U H	250	209	H	ug/L		84	50 - 151	1	20
Chloroform - RA	2.5	U H	250	272	H	ug/L		109	79 - 122	3	20
Chloromethane - RA	2.0	U H	250	188	H	ug/L		75	63 - 126	3	30
2-Chlorotoluene - RA	1.4	U H	250	248	H	ug/L		99	77 - 121	2	20
4-Chlorotoluene - RA	2.3	U H	250	250	H	ug/L		100	80 - 120	2	20
cis-1,2-Dichloroethene - RA	140	H F1	250	346	H	ug/L		80	80 - 122	6	20
cis-1,3-Dichloropropene - RA	2.0	U H	250	258	H	ug/L		103	80 - 133	3	20
Dibromochloromethane - RA	1.6	U H	250	277	H	ug/L		111	71 - 136	3	20
1,2-Dibromo-3-Chloropropane - RA	5.5	U H	250	265	H	ug/L		106	59 - 141	0	20
1,2-Dibromoethane - RA	2.2	U H	250	276	H	ug/L		110	77 - 131	2	20
Dibromomethane - RA	1.8	U H	250	270	H	ug/L		108	80 - 122	3	20
1,2-Dichlorobenzene - RA	1.9	U H	250	247	H	ug/L		99	80 - 120	2	20
1,3-Dichlorobenzene - RA	2.2	U H	250	248	H	ug/L		99	80 - 120	1	20
1,4-Dichlorobenzene - RA	2.3	U H	250	247	H	ug/L		99	80 - 120	1	20
Dichlorodifluoromethane - RA	3.0	U H	250	175	H	ug/L		70	51 - 140	6	40
1,1-Dichloroethane - RA	1.9	U H	250	265	H	ug/L		106	80 - 120	2	20
1,2-Dichloroethane - RA	2.5	U H	250	282	H	ug/L		113	75 - 130	3	50
1,1-Dichloroethene - RA	3.8	J H	250	236	H	ug/L		93	74 - 125	4	20
1,2-Dichloropropane - RA	3.4	U H	250	259	H	ug/L		104	80 - 123	1	20
1,3-Dichloropropane - RA	1.7	U H	250	266	H	ug/L		106	78 - 127	3	20
2,2-Dichloropropane - RA	1.9	U * H	250	227	H	ug/L		91	72 - 133	6	20
1,1-Dichloropropene - RA	1.7	U H	250	253	H	ug/L		101	78 - 127	3	20
Ethylbenzene - RA	1.7	U H	250	255	H	ug/L		102	80 - 120	2	20
Hexachlorobutadiene - RA	13	U H	250	250	H	ug/L		100	77 - 129	3	20
2-Hexanone - RA	10	U H	1250	1340	H	ug/L		107	70 - 141	2	20
Isopropylbenzene - RA	1.8	U H	250	249	H	ug/L		100	80 - 120	3	20
Methylene Chloride - RA	13	U H	250	266	H	ug/L		106	76 - 129	2	20
4-Methyl-2-pentanone - RA	11	U H	1250	1340	H	ug/L		107	75 - 135	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Lab Sample ID: 680-174693-10 MSD
Matrix: Water
Analysis Batch: 590745

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether - RA	1.5	U H	250	274	H	ug/L		110	74 - 135	3	20
m-Xylene & p-Xylene - RA	1.8	U H	250	255	H	ug/L		102	80 - 120	1	20
Naphthalene - RA	13	U H	250	262	H	ug/L		105	69 - 148	0	20
n-Butylbenzene - RA	2.4	U H	250	224	H	ug/L		89	78 - 124	3	20
N-Propylbenzene - RA	1.9	U H	250	243	H	ug/L		97	80 - 120	4	20
o-Xylene - RA	1.2	U H	250	255	H	ug/L		102	80 - 120	2	30
p-Isopropyltoluene - RA	2.4	U H	250	236	H	ug/L		94	80 - 120	2	20
sec-Butylbenzene - RA	2.1	U H	250	248	H	ug/L		99	76 - 125	3	20
Styrene - RA	1.4	U H	250	263	H	ug/L		105	80 - 122	1	20
tert-Butylbenzene - RA	2.3	U H	250	248	H	ug/L		99	80 - 120	4	20
1,1,1,2-Tetrachloroethane - RA	1.9	U H	250	277	H	ug/L		111	80 - 120	2	20
1,1,2,2-Tetrachloroethane - RA	3.1	U H	250	260	H	ug/L		104	72 - 128	1	20
Tetrachloroethene - RA	3.7	U * H	250	265	H	ug/L		106	77 - 123	5	20
Toluene - RA	2.4	U H	250	254	H	ug/L		102	80 - 122	2	20
trans-1,2-Dichloroethene - RA	6.4	H	250	261	H	ug/L		102	78 - 123	3	20
trans-1,3-Dichloropropene - RA	2.1	U H	250	256	H	ug/L		103	74 - 140	3	30
1,2,3-Trichlorobenzene - RA	13	U H	250	273	H	ug/L		109	61 - 151	2	20
1,2,4-Trichlorobenzene - RA	13	U H	250	262	H	ug/L		105	77 - 131	1	20
1,1,1-Trichloroethane - RA	1.9	U * H	250	271	H	ug/L		108	74 - 128	5	20
1,1,2-Trichloroethane - RA	1.7	U H	250	262	H	ug/L		105	79 - 125	2	20
Trichloroethene - RA	68	H F1	250	291	H	ug/L		89	80 - 123	8	20
Trichlorofluoromethane - RA	2.1	U H	250	201	H	ug/L		80	58 - 145	6	20
1,2,3-Trichloropropane - RA	2.0	U H	250	270	H	ug/L		108	70 - 132	3	30
1,2,4-Trimethylbenzene - RA	2.4	U H	250	251	H	ug/L		100	80 - 124	2	20
1,3,5-Trimethylbenzene - RA	1.6	U H	250	249	H	ug/L		99	80 - 120	2	20
Vinyl acetate - RA	4.1	U H	501	583	H	ug/L		116	15 - 190	8	20
Vinyl chloride - RA	38	H F1	250	231	H	ug/L		77	68 - 132	1	20
Xylenes, Total - RA	1.2	U H	500	510	H	ug/L		102	80 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr) - RA	*89*		*80 - 120*
Dibromofluoromethane (Surr) - RA	*112*		*80 - 122*
1,2-Dichloroethane-d4 (Surr) - RA	*110*		*73 - 131*
Toluene-d8 (Surr) - RA	*101*		*80 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-589210/8
Matrix: Water
Analysis Batch: 589210

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			10/04/19 11:04	1
Ethene	0.50	U	1.0	0.50	ug/L			10/04/19 11:04	1
Methane	0.29	U	0.58	0.29	ug/L			10/04/19 11:04	1
Methane (TCD)	39	U	390	39	ug/L			10/04/19 11:04	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-589210/3
Matrix: Water
Analysis Batch: 589210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	271		ug/L		94	75 - 125
Ethene	269	259		ug/L		96	75 - 125
Methane	154	154		ug/L		100	75 - 125

Lab Sample ID: LCS 680-589210/6
Matrix: Water
Analysis Batch: 589210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	1960		ug/L		102	75 - 125

Lab Sample ID: LCSD 680-589210/4
Matrix: Water
Analysis Batch: 589210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	285		ug/L		99	75 - 125	5	30
Ethene	269	273		ug/L		101	75 - 125	5	30
Methane	154	163		ug/L		106	75 - 125	6	30

Lab Sample ID: LCSD 680-589210/7
Matrix: Water
Analysis Batch: 589210

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	1910		ug/L		99	75 - 125	3	30

Lab Sample ID: MB 680-590030/9
Matrix: Water
Analysis Batch: 590030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			10/09/19 11:21	1
Ethene	0.50	U	1.0	0.50	ug/L			10/09/19 11:21	1
Methane	0.29	U	0.58	0.29	ug/L			10/09/19 11:21	1
Methane (TCD)	39	U	390	39	ug/L			10/09/19 11:21	1

Lab Sample ID: LCS 680-590030/3
Matrix: Water
Analysis Batch: 590030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	251		ug/L		87	75 - 125
Ethene	269	240		ug/L		89	75 - 125
Methane	154	145		ug/L		94	75 - 125

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-590030/6
Matrix: Water
Analysis Batch: 590030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane (TCD)			1920	1950		ug/L		101	75 - 125		

Lab Sample ID: LCSD 680-590030/4
Matrix: Water
Analysis Batch: 590030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane			288	265		ug/L		92	75 - 125	5	30
Ethene			269	253		ug/L		94	75 - 125	5	30
Methane			154	152		ug/L		99	75 - 125	5	30

Lab Sample ID: LCSD 680-590030/7
Matrix: Water
Analysis Batch: 590030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)			1920	1920		ug/L		100	75 - 125	1	30

Lab Sample ID: MB 680-590251/39
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			10/10/19 20:30	1
Ethene	0.50	U	1.0	0.50	ug/L			10/10/19 20:30	1
Methane	0.29	U	0.58	0.29	ug/L			10/10/19 20:30	1
Methane (TCD)	39	U	390	39	ug/L			10/10/19 20:30	1

Lab Sample ID: MB 680-590251/9
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			10/10/19 11:37	1
Ethene	0.50	U	1.0	0.50	ug/L			10/10/19 11:37	1
Methane	0.29	U	0.58	0.29	ug/L			10/10/19 11:37	1
Methane (TCD)	39	U	390	39	ug/L			10/10/19 11:37	1

Lab Sample ID: LCS 680-590251/34
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethane			288	278		ug/L		96	75 - 125		
Ethene			269	266		ug/L		99	75 - 125		
Methane			154	160		ug/L		104	75 - 125		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-590251/36
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	2020		ug/L		105	75 - 125

Lab Sample ID: LCS 680-590251/4
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	282		ug/L		98	75 - 125
Ethene	269	270		ug/L		100	75 - 125
Methane	154	161		ug/L		105	75 - 125

Lab Sample ID: LCSD 680-590251/35
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	269		ug/L		93	75 - 125	3	30
Ethene	269	259		ug/L		96	75 - 125	3	30
Methane	154	155		ug/L		101	75 - 125	3	30

Lab Sample ID: LCSD 680-590251/37
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	2000		ug/L		104	75 - 125	1	30

Lab Sample ID: LCSD 680-590251/8
Matrix: Water
Analysis Batch: 590251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	290		ug/L		101	75 - 125	3	30
Ethene	269	277		ug/L		103	75 - 125	3	30
Methane	154	165		ug/L		107	75 - 125	2	30

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: LCS 680-588809/4
Matrix: Water
Analysis Batch: 588809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.4		mg/L		97	80 - 120
Total Organic Carbon - Quad	20.0	19.4		mg/L		97	80 - 120
TOC Result 1	20.0	19.3		mg/L		97	80 - 120
TOC Result 2	20.0	19.2		mg/L		96	80 - 120
TOC Result 3	20.0	19.6		mg/L		98	80 - 120
TOC Result 4	20.0	19.6		mg/L		98	80 - 120

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 680-588809/5
Matrix: Water
Analysis Batch: 588809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon			20.0	19.5		mg/L		98	80 - 120	0	25
Total Organic Carbon - Quad			20.0	19.5		mg/L		98	80 - 120	0	25
TOC Result 1			20.0	19.3		mg/L		97	80 - 120	0	25
TOC Result 2			20.0	19.4		mg/L		97	80 - 120	1	25
TOC Result 3			20.0	19.6		mg/L		98	80 - 120	0	25
TOC Result 4			20.0	19.8		mg/L		99	80 - 120	1	25

Lab Sample ID: 680-174693-10 MS
Matrix: Water
Analysis Batch: 588809

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.89	J	20.0	20.1		mg/L		96	80 - 120
Total Organic Carbon - Quad	0.89	J	20.0	20.1		mg/L		96	80 - 120
TOC Result 1	0.90	J	20.0	20.0		mg/L		95	80 - 120
TOC Result 2	0.88	J	20.0	20.0		mg/L		95	80 - 120
TOC Result 3	0.87	J	20.0	20.3		mg/L		97	80 - 120
TOC Result 4	0.92	J	20.0	20.2		mg/L		96	80 - 120

Lab Sample ID: 680-174693-10 MSD
Matrix: Water
Analysis Batch: 588809

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.89	J	20.0	20.1		mg/L		96	80 - 120	0	25
Total Organic Carbon - Quad	0.89	J	20.0	20.1		mg/L		96	80 - 120	0	25
TOC Result 1	0.90	J	20.0	19.9		mg/L		95	80 - 120	0	25
TOC Result 2	0.88	J	20.0	19.9		mg/L		95	80 - 120	0	25
TOC Result 3	0.87	J	20.0	20.2		mg/L		97	80 - 120	0	25
TOC Result 4	0.92	J	20.0	20.6		mg/L		98	80 - 120	2	25

GC/MS VOA

Analysis Batch: 589432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-6	CWM-183-MW16	Total/NA	Water	8260B	
MB 680-589432/10	Method Blank	Total/NA	Water	8260B	
LCS 680-589432/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589432/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 589584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-13	CWM-183-MW31	Total/NA	Water	8260B	
680-174693-14	DUP #329	Total/NA	Water	8260B	
680-174693-15	DUP #330	Total/NA	Water	8260B	
MB 680-589584/9	Method Blank	Total/NA	Water	8260B	
LCS 680-589584/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589584/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 589587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-9	CWM-183-MW28	Total/NA	Water	8260B	
MB 680-589587/10	Method Blank	Total/NA	Water	8260B	
LCS 680-589587/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589587/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 589601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-1	CWM-183-MW08	Total/NA	Water	8260B	
680-174693-2	CWM-183-MW20	Total/NA	Water	8260B	
680-174693-3	CWM-183-MW25	Total/NA	Water	8260B	
680-174693-4	CWM-183-MW19	Total/NA	Water	8260B	
680-174693-12	CWM-183-MW06	Total/NA	Water	8260B	
MB 680-589601/8	Method Blank	Total/NA	Water	8260B	
LCS 680-589601/1004	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-589601/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 590268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-10	CWM-183-MW13	Total/NA	Water	8260B	
680-174693-11	CWM-183-MW23	Total/NA	Water	8260B	
680-174693-16	CMW-183-MW04	Total/NA	Water	8260B	
680-174693-17	TB # 539	Total/NA	Water	8260B	
MB 680-590268/9	Method Blank	Total/NA	Water	8260B	
LCS 680-590268/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-590268/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-174693-10 MS	CWM-183-MW13	Total/NA	Water	8260B	
680-174693-10 MSD	CWM-183-MW13	Total/NA	Water	8260B	

Analysis Batch: 590745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-10 - RA	CWM-183-MW13	Total/NA	Water	8260B	
680-174693-11 - RA	CWM-183-MW23	Total/NA	Water	8260B	
680-174693-16 - RA	CMW-183-MW04	Total/NA	Water	8260B	
680-174693-17 - RA	TB # 539	Total/NA	Water	8260B	
MB 680-590745/9	Method Blank	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 590745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-590745/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-590745/4	Lab Control Sample Dup	Total/NA	Water	8260B	
680-174693-10 MS - RA	CWM-183-MW13	Total/NA	Water	8260B	
680-174693-10 MSD - RA	CWM-183-MW13	Total/NA	Water	8260B	

Analysis Batch: 590748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-1 - RA	CWM-183-MW08	Total/NA	Water	8260B	
680-174693-2 - RA	CWM-183-MW20	Total/NA	Water	8260B	
680-174693-12 - RA	CWM-183-MW06	Total/NA	Water	8260B	
MB 680-590748/9	Method Blank	Total/NA	Water	8260B	
LCS 680-590748/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-590748/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 589210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-14	DUP #329	Total/NA	Water	RSK-175	
MB 680-589210/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-589210/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-589210/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-589210/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-589210/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 590030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-12	CWM-183-MW06	Total/NA	Water	RSK-175	
MB 680-590030/9	Method Blank	Total/NA	Water	RSK-175	
LCS 680-590030/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-590030/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-590030/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-590030/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 590251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-10	CWM-183-MW13	Total/NA	Water	RSK-175	
680-174693-11	CWM-183-MW23	Total/NA	Water	RSK-175	
680-174693-16	CMW-183-MW04	Total/NA	Water	RSK-175	
MB 680-590251/39	Method Blank	Total/NA	Water	RSK-175	
MB 680-590251/9	Method Blank	Total/NA	Water	RSK-175	
LCS 680-590251/34	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-590251/36	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-590251/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-590251/35	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-590251/37	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-590251/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	
680-174693-10 MS	CWM-183-MW13	Total/NA	Water	RSK-175	
680-174693-10 MSD	CWM-183-MW13	Total/NA	Water	RSK-175	

QC Association Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-174693-1
Project/Site: Parcel 183(6),Training Area T6 (NF)

General Chemistry

Analysis Batch: 588809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174693-5	CWM-183-MW11	Total/NA	Water	9060A	
680-174693-10	CWM-183-MW13	Total/NA	Water	9060A	
680-174693-11	CWM-183-MW23	Total/NA	Water	9060A	
680-174693-12	CWM-183-MW06	Total/NA	Water	9060A	
680-174693-14	DUP #329	Total/NA	Water	9060A	
680-174693-16	CMW-183-MW04	Total/NA	Water	9060A	
LCS 680-588809/4	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-588809/5	Lab Control Sample Dup	Total/NA	Water	9060A	
680-174693-10 MS	CWM-183-MW13	Total/NA	Water	9060A	
680-174693-10 MSD	CWM-183-MW13	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW08

Lab Sample ID: 680-174693-1
Date Collected: 09/25/19 13:01
Matrix: Water
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	590748	10/14/19 17:13	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260B		1	5 mL	5 mL	589601	10/07/19 21:55	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW20

Lab Sample ID: 680-174693-2
Date Collected: 09/25/19 11:31
Matrix: Water
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	590748	10/14/19 17:37	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260B		1	5 mL	5 mL	589601	10/07/19 22:46	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW25

Lab Sample ID: 680-174693-3
Date Collected: 09/25/19 15:36
Matrix: Water
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589601	10/07/19 22:20	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW19

Lab Sample ID: 680-174693-4
Date Collected: 09/25/19 09:51
Matrix: Water
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589601	10/07/19 23:11	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW11

Lab Sample ID: 680-174693-5
Date Collected: 09/25/19 14:10
Matrix: Water
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	40 mL	40 mL	588809	10/01/19 16:50	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM-183-MW16

Lab Sample ID: 680-174693-6
Date Collected: 09/24/19 13:51
Matrix: Water
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589432	10/05/19 21:51	P1C	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: CWM-183-MW28

Lab Sample ID: 680-174693-9

Date Collected: 09/24/19 11:36

Matrix: Water

Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	589587	10/07/19 19:09	P1C	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: CWM-183-MW13

Lab Sample ID: 680-174693-10

Date Collected: 09/26/19 09:35

Matrix: Water

Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	590268	10/10/19 20:17	EMA	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	RA	5	5 mL	5 mL	590745	10/14/19 18:47	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	590251	10/10/19 18:21	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	588809	10/01/19 17:40	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM-183-MW23

Lab Sample ID: 680-174693-11

Date Collected: 09/26/19 09:51

Matrix: Water

Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	5 mL	5 mL	590268	10/10/19 20:43	EMA	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	RA	500	5 mL	5 mL	590745	10/14/19 19:11	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	590251	10/10/19 16:48	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	588809	10/01/19 18:30	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM-183-MW06

Lab Sample ID: 680-174693-12

Date Collected: 09/25/19 16:10

Matrix: Water

Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	590748	10/14/19 18:01	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	8260B		1	5 mL	5 mL	589601	10/07/19 23:37	Y1S	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	590030	10/09/19 13:08	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	588809	10/01/19 18:48	RKJ	TAL SAV
	Instrument ID: TOC7									

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Client Sample ID: CWM-183-MW31

Lab Sample ID: 680-174693-13
Matrix: Water
Date Collected: 09/24/19 09:56
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	589584	10/07/19 22:16	Y1S	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: DUP #329

Lab Sample ID: 680-174693-14
Matrix: Water
Date Collected: 09/24/19 00:00
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	589584	10/07/19 21:52	Y1S	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	589210	10/04/19 17:42	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	588809	10/01/19 19:06	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: DUP #330

Lab Sample ID: 680-174693-15
Matrix: Water
Date Collected: 09/24/19 00:00
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 g	589584	10/07/19 22:40	Y1S	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: CMW-183-MW04

Lab Sample ID: 680-174693-16
Matrix: Water
Date Collected: 09/26/19 11:45
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590268	10/10/19 16:26	EMA	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	590745	10/14/19 14:30	Y1S	TAL SAV
	Instrument ID: CMSC									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	590251	10/10/19 20:43	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	588809	10/01/19 19:24	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: TB # 539

Lab Sample ID: 680-174693-17
Matrix: Water
Date Collected: 09/26/19 11:00
Date Received: 09/27/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590268	10/10/19 15:09	EMA	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	590745	10/14/19 13:20	Y1S	TAL SAV
	Instrument ID: CMSC									

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-174693-1
Project/Site: Parcel 183(6),Training Area T6 (NF)

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-20

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6),Training Area T6 (NF)

Job ID: 680-174693-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5856
Cooler ID 1 of 1
Page 1 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: E300 Anions - SO4 and NO3 125 mL poly, none	Analysis: 4500-NH3 Ammonia 250 mL poly, H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW08	NS	MW	Water	BP	9/25/19	13:01	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW20	NS	MW	Water	BP	9/25/19	11:31	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW25	NS	MW	Water	BP	9/25/19	15:36	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW19	NS	MW	Water	BP	9/25/19	9:51	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW11	NS	MW	Water	BP	9/25/19	14:10	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW16	NS	MW	Water	BP	9/24/19	13:51	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW21	NS	MW	Water	BP	9/25/19	10:15	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW22	NS	MW	Water	BP	9/25/19	11:30	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW28	NS	MW	Water	BP	9/24/19	11:36	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	NS	MW	Water	BP	9/26/19	9:35	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	MS/MSD	MW	Water	BP	9/26/19	9:35	X	X	X			

680-174693 Chain of Custody

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): Date/Time: 9/26/19 4:00pm Received by (Signature): FedEx

Relinquished by (Signature): Date/Time: Received by (Signature): CBBanda 09-27-19 0910

3.8(CF)3.7°C

10/16/2019

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5856
Cooler ID 1 of 1
Page 2 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	RSK-175 -MEE 3 - 40 ml vials, HCl	TOC - SW9060 3 - 40 mL amber VOA H2SO4	E300 Anions - SO4 and NO3 125 mL poly, none	4500-NH3 Ammonia 250 mL poly, H2SO4	SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183- MW23	NS	MW	Water	BP	9/26/19	9:51	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW06	NS	MW	Water	BP	9/25/19	16:10	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW31	NS	MW	Water	BP	9/24/19	9:56	X					
Parcel 183(6), Training Area T6 (Naylor Field)	DUP# 329	FD	MW	Water	BP	N/A	N/A	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	DUP # 330	FD	MW	Water	BP	9/24/19	N/A	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW04	NS	MW	Water	BP	9/26/19	11:45	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	TB# 539	TB	TB	Water	Grab	9/26/19	11:00						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													

Loc: 680
174693

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): Date/Time: 9/26/19 4:00pm Received by (Signature): FedEx

Relinquished by (Signature): Date/Time: Received by (Signature): 09-27-19 0910

3.8(C) 3.7°C

10/16/2019

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-174693-1

Login Number: 174693
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-174926-1
Client Project/Site: Parcel 183(6), Training Area T6

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Kathryn Smith

Authorized for release by:
10/17/2019 3:49:11 PM
Kathryn Smith, Manager of Project Management
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Designee for

Jon Lawhon, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-174926-1	CWM-183-MW11	Water	10/02/19 10:11	10/03/19 09:30	
680-174926-2	CWM-183-MW21	Water	10/02/19 11:35	10/03/19 09:30	
680-174926-3	CWM-183-MW22	Water	10/02/19 10:20	10/03/19 09:30	
680-174926-4	DUP #331	Water	10/02/19 00:00	10/03/19 09:30	
680-174926-5	TB #540	Water	10/02/19 13:00	10/03/19 09:30	

Job ID: 680-174926-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE
Client: Matrix Environmental Services, LLC
Project: Parcel 183(6), Training Area T6

Report Number: 680-174926-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/03/2019; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.9 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples CWM-183-MW11 (680-174926-1), CWM-183-MW21 (680-174926-2), CWM-183-MW22 (680-174926-3), DUP #331 (680-174926-4) and TB #540 (680-174926-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/14/2019 and 10/15/2019.

The laboratory control sample (LCS) for analytical batch 680-590968 recovered outside control limits for the following analytes: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED GASES

Sample CWM-183-MW11 (680-174926-1) was analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 10/11/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: CWM-183-MW11

Lab Sample ID: 680-174926-1

Date Collected: 10/02/19 10:11

Matrix: Water

Date Received: 10/03/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/14/19 20:50	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/14/19 20:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/14/19 20:50	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/14/19 20:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/14/19 20:50	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/14/19 20:50	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/14/19 20:50	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/14/19 20:50	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/14/19 20:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/14/19 20:50	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/14/19 20:50	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/14/19 20:50	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/14/19 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/14/19 20:50*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*10/14/19 20:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*10/14/19 20:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/19 20:50*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**3.1**		1.1	0.55	ug/L			10/11/19 12:52	1
Ethylene	0.50	U	1.0	0.50	ug/L			10/11/19 12:52	1
Methane (TCD)	39	U	390	39	ug/L			10/11/19 12:52	1

Client Sample ID: CWM-183-MW21

Lab Sample ID: 680-174926-2

Date Collected: 10/02/19 11:35

Matrix: Water

Date Received: 10/03/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/14/19 21:15	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/14/19 21:15	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/14/19 21:15	1
cis-1,2-Dichloroethene	**4.5**		1.0	0.41	ug/L			10/14/19 21:15	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/14/19 21:15	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/14/19 21:15	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/14/19 21:15	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/14/19 21:15	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/14/19 21:15	1
trans-1,2-Dichloroethene	**1.4**		1.0	0.37	ug/L			10/14/19 21:15	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/14/19 21:15	1
Trichloroethene	**2.9**		1.0	0.48	ug/L			10/14/19 21:15	1
Vinyl chloride	**4.4**		1.0	0.50	ug/L			10/14/19 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/14/19 21:15*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*10/14/19 21:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*10/14/19 21:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/14/19 21:15*	*1*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

Client Sample ID: CWM-183-MW22

Lab Sample ID: 680-174926-3

Date Collected: 10/02/19 10:20

Matrix: Water

Date Received: 10/03/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/15/19 15:29	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/15/19 15:29	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			10/15/19 15:29	1
cis-1,2-Dichloroethene	**96**		1.0	0.41	ug/L			10/15/19 15:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/15/19 15:29	1
1,1-Dichloroethene	**0.64**	**J**	1.0	0.36	ug/L			10/15/19 15:29	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/15/19 15:29	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/15/19 15:29	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/15/19 15:29	1
trans-1,2-Dichloroethene	**3.1**		1.0	0.37	ug/L			10/15/19 15:29	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/15/19 15:29	1
Trichloroethene	**19**		1.0	0.48	ug/L			10/15/19 15:29	1
Vinyl chloride	**39**		1.0	0.50	ug/L			10/15/19 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/15/19 15:29*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 122*		*10/15/19 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*73 - 131*		*10/15/19 15:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/15/19 15:29*	*1*

Client Sample ID: DUP #331

Lab Sample ID: 680-174926-4

Date Collected: 10/02/19 00:00

Matrix: Water

Date Received: 10/03/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/15/19 15:59	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/15/19 15:59	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			10/15/19 15:59	1
cis-1,2-Dichloroethene	**100**		1.0	0.41	ug/L			10/15/19 15:59	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/15/19 15:59	1
1,1-Dichloroethene	**0.51**	**J**	1.0	0.36	ug/L			10/15/19 15:59	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/15/19 15:59	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/15/19 15:59	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/15/19 15:59	1
trans-1,2-Dichloroethene	**3.1**		1.0	0.37	ug/L			10/15/19 15:59	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/15/19 15:59	1
Trichloroethene	**19**		1.0	0.48	ug/L			10/15/19 15:59	1
Vinyl chloride	**35**		1.0	0.50	ug/L			10/15/19 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/15/19 15:59*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/15/19 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*10/15/19 15:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/15/19 15:59*	*1*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

Client Sample ID: TB #540
Date Collected: 10/02/19 13:00
Date Received: 10/03/19 09:30

Lab Sample ID: 680-174926-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/15/19 14:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/15/19 14:00	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			10/15/19 14:00	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/15/19 14:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/15/19 14:00	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/15/19 14:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/15/19 14:00	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/15/19 14:00	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/15/19 14:00	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/15/19 14:00	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/15/19 14:00	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/15/19 14:00	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/15/19 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/15/19 14:00*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/15/19 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*10/15/19 14:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/15/19 14:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-590748/9
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/14/19 12:47	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/14/19 12:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/14/19 12:47	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/14/19 12:47	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/14/19 12:47	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/14/19 12:47	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/14/19 12:47	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/14/19 12:47	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/14/19 12:47	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/14/19 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/14/19 12:47*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*10/14/19 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*10/14/19 12:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/14/19 12:47*	*1*

Lab Sample ID: LCS 680-590748/3
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	55.0		ug/L		110	66 - 135
Chloroform	50.0	54.3		ug/L		109	80 - 120
Chloromethane	50.0	61.2		ug/L		122	69 - 131
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	57.5		ug/L		115	80 - 120
1,1-Dichloroethene	50.0	54.1		ug/L		108	76 - 120
Methylene Chloride	50.0	48.8		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120
Tetrachloroethylene	50.0	52.8		ug/L		106	80 - 121
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	80 - 120
Trichloroethene	50.0	53.8		ug/L		108	80 - 120
Vinyl chloride	50.0	55.4		ug/L		111	71 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-590748/4
Matrix: Water
Analysis Batch: 590748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	54.2		ug/L		108	66 - 135	1	20
Chloroform			50.0	54.9		ug/L		110	80 - 120	1	20
Chloromethane			50.0	62.4		ug/L		125	69 - 131	2	30
cis-1,2-Dichloroethene			50.0	52.4		ug/L		105	80 - 120	1	20
1,2-Dichloroethane			50.0	56.6		ug/L		113	80 - 120	2	50
1,1-Dichloroethene			50.0	54.7		ug/L		109	76 - 120	1	20
Methylene Chloride			50.0	48.6		ug/L		97	80 - 120	1	20
1,1,2,2-Tetrachloroethane			50.0	52.2		ug/L		104	80 - 120	2	20
Tetrachloroethylene			50.0	50.9		ug/L		102	80 - 121	4	20
trans-1,2-Dichloroethene			50.0	53.8		ug/L		108	80 - 120	0	20
1,1,2-Trichloroethane			50.0	53.2		ug/L		106	80 - 120	1	20
Trichloroethene			50.0	53.3		ug/L		107	80 - 120	1	20
Vinyl chloride			50.0	55.2		ug/L		110	71 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 680-590968/9
Matrix: Water
Analysis Batch: 590968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			10/15/19 13:30	1
Chloroform	0.50	U	1.0	0.50	ug/L			10/15/19 13:30	1
Chloromethane	0.40	U	1.0	0.40	ug/L			10/15/19 13:30	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			10/15/19 13:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			10/15/19 13:30	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			10/15/19 13:30	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			10/15/19 13:30	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			10/15/19 13:30	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			10/15/19 13:30	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/15/19 13:30	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			10/15/19 13:30	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			10/15/19 13:30	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			10/15/19 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/15/19 13:30*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*10/15/19 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*10/15/19 13:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/15/19 13:30*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-590968/1004
Matrix: Water
Analysis Batch: 590968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloroethane			50.0	65.9		ug/L		132	66 - 135		
Chloroform			50.0	51.9		ug/L		104	80 - 120		
Chloromethane			50.0	67.2	*	ug/L		134	69 - 131		
cis-1,2-Dichloroethene			50.0	56.5		ug/L		113	80 - 120		
1,2-Dichloroethane			50.0	49.1		ug/L		98	80 - 120		
1,1-Dichloroethene			50.0	50.0		ug/L		100	76 - 120		
Methylene Chloride			50.0	54.2		ug/L		108	80 - 120		
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	80 - 120		
Tetrachloroethylene			50.0	53.8		ug/L		108	80 - 121		
trans-1,2-Dichloroethene			50.0	52.8		ug/L		106	80 - 120		
1,1,2-Trichloroethane			50.0	49.5		ug/L		99	80 - 120		
Trichloroethene			50.0	50.9		ug/L		102	80 - 120		
Vinyl chloride			50.0	55.4		ug/L		111	71 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 680-590968/5
Matrix: Water
Analysis Batch: 590968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	64.4		ug/L		129	66 - 135	2	20
Chloroform			50.0	52.4		ug/L		105	80 - 120	1	20
Chloromethane			50.0	59.2		ug/L		118	69 - 131	13	30
cis-1,2-Dichloroethene			50.0	55.5		ug/L		111	80 - 120	2	20
1,2-Dichloroethane			50.0	50.5		ug/L		101	80 - 120	3	50
1,1-Dichloroethene			50.0	47.1		ug/L		94	76 - 120	6	20
Methylene Chloride			50.0	52.8		ug/L		106	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	52.7		ug/L		105	80 - 120	3	20
Tetrachloroethylene			50.0	54.2		ug/L		108	80 - 121	1	20
trans-1,2-Dichloroethene			50.0	51.7		ug/L		103	80 - 120	2	20
1,1,2-Trichloroethane			50.0	50.1		ug/L		100	80 - 120	1	20
Trichloroethene			50.0	51.0		ug/L		102	80 - 120	0	20
Vinyl chloride			50.0	55.8		ug/L		112	71 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-590474/9
Matrix: Water
Analysis Batch: 590474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			10/11/19 11:16	1
Ethylene	0.50	U	1.0	0.50	ug/L			10/11/19 11:16	1
Methane	0.29	U	0.58	0.29	ug/L			10/11/19 11:16	1
Methane (TCD)	39	U	390	39	ug/L			10/11/19 11:16	1

Lab Sample ID: LCS 680-590474/3
Matrix: Water
Analysis Batch: 590474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	281		ug/L		97	75 - 125
Ethylene	269	268		ug/L		99	75 - 125
Methane	154	160		ug/L		104	75 - 125

Lab Sample ID: LCS 680-590474/6
Matrix: Water
Analysis Batch: 590474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	1950		ug/L		102	75 - 125

Lab Sample ID: LCSD 680-590474/4
Matrix: Water
Analysis Batch: 590474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	286		ug/L		99	75 - 125	2	30
Ethylene	269	268		ug/L		100	75 - 125	0	30
Methane	154	158		ug/L		103	75 - 125	1	30

Lab Sample ID: LCSD 680-590474/7
Matrix: Water
Analysis Batch: 590474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	1990		ug/L		104	75 - 125	2	30

QC Association Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

GC/MS VOA

Analysis Batch: 590748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174926-1	CWM-183-MW11	Total/NA	Water	8260B	
680-174926-2	CWM-183-MW21	Total/NA	Water	8260B	
MB 680-590748/9	Method Blank	Total/NA	Water	8260B	
LCS 680-590748/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-590748/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 590968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174926-3	CWM-183-MW22	Total/NA	Water	8260B	
680-174926-4	DUP #331	Total/NA	Water	8260B	
680-174926-5	TB #540	Total/NA	Water	8260B	
MB 680-590968/9	Method Blank	Total/NA	Water	8260B	
LCS 680-590968/1004	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-590968/5	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 590474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-174926-1	CWM-183-MW11	Total/NA	Water	RSK-175	
MB 680-590474/9	Method Blank	Total/NA	Water	RSK-175	
LCS 680-590474/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-590474/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-590474/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-590474/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

Client Sample ID: CWM-183-MW11

Lab Sample ID: 680-174926-1

Date Collected: 10/02/19 10:11

Matrix: Water

Date Received: 10/03/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590748	10/14/19 20:50	Y1S	TAL SAV
	Instrument ID: CMSAA									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	590474	10/11/19 12:52	MYD	TAL SAV
	Instrument ID: CVGU									

Client Sample ID: CWM-183-MW21

Lab Sample ID: 680-174926-2

Date Collected: 10/02/19 11:35

Matrix: Water

Date Received: 10/03/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590748	10/14/19 21:15	Y1S	TAL SAV
	Instrument ID: CMSAA									

Client Sample ID: CWM-183-MW22

Lab Sample ID: 680-174926-3

Date Collected: 10/02/19 10:20

Matrix: Water

Date Received: 10/03/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590968	10/15/19 15:29	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: DUP #331

Lab Sample ID: 680-174926-4

Date Collected: 10/02/19 00:00

Matrix: Water

Date Received: 10/03/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590968	10/15/19 15:59	Y1S	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: TB #540

Lab Sample ID: 680-174926-5

Date Collected: 10/02/19 13:00

Matrix: Water

Date Received: 10/03/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	590968	10/15/19 14:00	Y1S	TAL SAV
	Instrument ID: CMSB									

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-174926-1
Project/Site: Parcel 183(6), Training Area T6

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-20

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel 183(6), Training Area T6

Job ID: 680-174926-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5867
Cooler ID 1 of 1
Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: E300 Anions - SO4 and NO3 125 mL poly, none	Analysis: 4500-NH3 Ammonia 250 mL poly, H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW11	NS	MW	Water	BP	10/2/19	10:11	X	X				
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW21	NS	MW	Water	BP	10/2/19	11:35	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW22	NS	MW	Water	BP	10/2/19	10:20	X					
Parcel 183(6), Training Area T6 (Naylor Field)	DUP#331	FD	FD	Water	BP	N/A	N/A	X					
Parcel 183(6), Training Area T6 (Naylor Field)	TB#540	TB	TB	Water	Grab	10/2/19	13:00						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													



NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water

Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): Date/Time: 10/2/19 16:00 Received by (Signature): FedEx

Relinquished by (Signature): Date/Time: Received by (Signature): C Banda 10-03-19 2930

2.0 (CF) 1.9°C

10/17/2019

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-174926-1

Login Number: 174926

List Source: Eurofins TestAmerica, Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-181793-1
Client Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Authorized for release by:
4/1/2020 5:41:26 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-181793-1	CWM-183-MW16	Water	03/18/20 09:01	03/19/20 08:45	
680-181793-2	CWM-183-MW20	Water	03/18/20 11:36	03/19/20 08:45	
680-181793-3	CWM-183-MW17	Water	03/18/20 14:11	03/19/20 08:45	
680-181793-4	CWM-183-MW15	Water	03/18/20 09:51	03/19/20 08:45	
680-181793-5	CWM-183-MW19	Water	03/17/20 11:45	03/19/20 08:45	
680-181793-6	CWM-183-MW25	Water	03/17/20 15:05	03/19/20 08:45	
680-181793-7	CWM-183-MW31	Water	03/17/20 10:21	03/19/20 08:45	
680-181793-8	CWM-183-MW28	Water	03/17/20 14:11	03/19/20 08:45	
680-181793-9	CWM-183-MW22	Water	03/18/20 10:10	03/19/20 08:45	
680-181793-10	CWM-183-MW21	Water	03/18/20 09:00	03/19/20 08:45	
680-181793-11	CWM-183-MW04	Water	03/18/20 11:45	03/19/20 08:45	
680-181793-12	DUP #341	Water	03/18/20 00:00	03/19/20 08:45	
680-181793-13	DUP #342	Water	03/17/20 00:00	03/19/20 08:45	
680-181793-14	TB #548	Water	03/18/20 15:00	03/19/20 08:45	
680-181793-15	CWM-183-MW13	Water	03/18/20 13:55	03/19/20 08:45	

Job ID: 680-181793-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC

Project: Parcel183(6),TrainingAreaT6/Naylor Field

Report Number: 680-181793-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 3/19/2020 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples CWM-183-MW16 (680-181793-1), CWM-183-MW20 (680-181793-2), CWM-183-MW17 (680-181793-3), CWM-183-MW15 (680-181793-4), CWM-183-MW19 (680-181793-5), CWM-183-MW25 (680-181793-6), CWM-183-MW31 (680-181793-7), CWM-183-MW28 (680-181793-8), CWM-183-MW22 (680-181793-9), CWM-183-MW21 (680-181793-10), CWM-183-MW04 (680-181793-11), DUP #341 (680-181793-12), DUP #342 (680-181793-13), TB #548 (680-181793-14) and CWM-183-MW13 (680-181793-15) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/28/2020, 03/30/2020 and 03/31/2020.

Method 8260B: Surrogate recovery for the following sample was outside the upper control limit: CWM-183-MW19 (680-181793-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-612986.

Method 8260B: The laboratory control sample (LCS) for analytical batch 680-612986 recovered outside control limits for the following analytes: Vinyl acetate and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 680-612986 recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-612992.

Method 8260B: Calibration Check Compounds (CCC) 1,1-Dichloroethene failed high, sample was non detect for all target analytes. Affected sample: CWM-183-MW25 (680-181793-6)

Method 8260B: The laboratory control sample (LCS) for analytical batch 680-613146 recovered outside control limits for the following analytes: Bromomethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

Job ID: 680-181793-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

analytical batch 680-613146.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613134.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613128.

Method 8260B: The continuing calibration verification (CCV) associated with batch 680-613128 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-613128 recovered outside control limits for the following analytes: Bromomethane.

Method 8260B: Bromomethane is reported with an E flag in the batch QC because the top one points were dropped from the ICAL. The sample associated with the QC was non detect for bromomethane. The data has been qualified and reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 680-613128 recovered outside control limits for the following analytes: 1,1,1,2-Tetrachloroethane, Vinyl acetate and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 680-613128 recovered outside control limits for the following analytes: Bromomethane, trans-1,4-Dichloro-2-butene, Dibromochloromethane, trans-1,3-Dichloropropene, Ethylene Dibromide, Bromoform, 1,1,1,2-Tetrachloroethane and Vinyl acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The continuing calibration verification (CCV) associated with batch 680-613140 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: Bromomethane is reported with an E flag in the batch QC because the top one points were dropped from the ICAL. The sample associated with the QC was non detect for bromomethane. The data has been qualified and reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 680-613140 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 680-613140 recovered outside control limits for the following analytes: Bromomethane, Chloroethane and trans-1,3-Dichloropropene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike /the matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-613140 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: CWM-183-MW13 (680-181793-15). Elevated reporting limits (RLs) are provided.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-613140 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260B: The laboratory control sample (LCS) for analytical batch 680-613323 recovered outside control limits for the following analytes: Bromomethane, Tetrachloroethylene and Vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Job ID: 680-181793-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 680-613323 recovered outside control limits for the following analytes: 1,1,1,2-Tetrachloroethane, Bromomethane, Dibromomethane and Vinyl acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613323.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613341.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613335.

Method 8260B: The continuing calibration verification (CCV) associated with batch 680-613335 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) and the laboratory control sample duplicate(LCSD) for analytical batch 680-613335 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Bromomethane is reported with an E flag in the batch QC because the top two points were dropped from the ICAL. The sample associated with the QC was non detect for Bromomethane. The data has been qualified and reported.

Method 8260B: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-613335 recovered outside control limits for the following analyte(s): Bromomethane, Chloroethane. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260B: The LCS/LCSD associated with batch 613341 failed 3% high for Cis-1,2-Dichloroethene. The sample reported is a dilution for Cis-1,2-Dichloroethene with confirming results. The data has been qualified and reported.

Sample CWM-183-MW20 (680-181793-2) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED GASES

Samples CWM-183-MW04 (680-181793-11), DUP #341 (680-181793-12) and CWM-183-MW13 (680-181793-15) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/27/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples CWM-183-MW04 (680-181793-11), DUP #341 (680-181793-12) and CWM-183-MW13 (680-181793-15) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 03/27/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: CWM-183-MW16
Lab Sample ID: 680-181793-1

Date Collected: 03/18/20 09:01
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/31/20 19:17	1
Acrylonitrile	10	U	20	10	ug/L			03/31/20 19:17	1
Benzene	0.43	U	1.0	0.43	ug/L			03/31/20 19:17	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/31/20 19:17	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/31/20 19:17	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/31/20 19:17	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			03/31/20 19:17	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/31/20 19:17	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/31/20 19:17	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/31/20 19:17	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/31/20 19:17	1
Chloroethane	**3.0**	**J ***	5.0	2.5	ug/L			03/31/20 19:17	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 19:17	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/31/20 19:17	1
cis-1,2-Dichloroethene	**7.0**		1.0	0.41	ug/L			03/31/20 19:17	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/31/20 19:17	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/31/20 19:17	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/31/20 19:17	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/31/20 19:17	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/31/20 19:17	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/31/20 19:17	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/31/20 19:17	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/31/20 19:17	1
1,2-Dichloroethane	**0.52**	**J**	1.0	0.50	ug/L			03/31/20 19:17	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/31/20 19:17	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/31/20 19:17	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/31/20 19:17	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/31/20 19:17	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/31/20 19:17	1
Iodomethane	5.0	U	10	5.0	ug/L			03/31/20 19:17	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 19:17	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/31/20 19:17	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/31/20 19:17	1
Styrene	0.27	U	1.0	0.27	ug/L			03/31/20 19:17	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 19:17	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/31/20 19:17	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/31/20 19:17	1
Toluene	0.48	U	1.0	0.48	ug/L			03/31/20 19:17	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/31/20 19:17	1
trans-1,2-Dichloroethene	**4.2**		1.0	0.37	ug/L			03/31/20 19:17	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/31/20 19:17	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 19:17	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/31/20 19:17	1
Trichloroethene	**7.1**		1.0	0.48	ug/L			03/31/20 19:17	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/31/20 19:17	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/31/20 19:17	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/31/20 19:17	1
Vinyl chloride	**10**		1.0	0.50	ug/L			03/31/20 19:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/31/20 19:17	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW16

Lab Sample ID: 680-181793-1

Date Collected: 03/18/20 09:01

Matrix: Water

Date Received: 03/19/20 08:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/31/20 19:17*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*03/31/20 19:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*03/31/20 19:17*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/31/20 19:17*	*1*

Client Sample ID: CWM-183-MW20

Lab Sample ID: 680-181793-2

Date Collected: 03/18/20 11:36

Matrix: Water

Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/31/20 19:41	1
Acrylonitrile	10	U	20	10	ug/L			03/31/20 19:41	1
Benzene	0.43	U	1.0	0.43	ug/L			03/31/20 19:41	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/31/20 19:41	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/31/20 19:41	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/31/20 19:41	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			03/31/20 19:41	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/31/20 19:41	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/31/20 19:41	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/31/20 19:41	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/31/20 19:41	1
Chloroethane	**2.7**	**J ***	5.0	2.5	ug/L			03/31/20 19:41	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 19:41	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/31/20 19:41	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/31/20 19:41	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/31/20 19:41	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/31/20 19:41	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/31/20 19:41	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/31/20 19:41	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/31/20 19:41	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/31/20 19:41	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/31/20 19:41	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/31/20 19:41	1
1,1-Dichloroethene	**3.8**		1.0	0.36	ug/L			03/31/20 19:41	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/31/20 19:41	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/31/20 19:41	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/31/20 19:41	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/31/20 19:41	1
Iodomethane	5.0	U	10	5.0	ug/L			03/31/20 19:41	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 19:41	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/31/20 19:41	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/31/20 19:41	1
Styrene	0.27	U	1.0	0.27	ug/L			03/31/20 19:41	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 19:41	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/31/20 19:41	1
Tetrachloroethylene	**2.2**		1.0	0.74	ug/L			03/31/20 19:41	1
Toluene	0.48	U	1.0	0.48	ug/L			03/31/20 19:41	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/31/20 19:41	1
trans-1,2-Dichloroethene	**2.7**		1.0	0.37	ug/L			03/31/20 19:41	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW20

Lab Sample ID: 680-181793-2

Date Collected: 03/18/20 11:36
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/31/20 19:41	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 19:41	1
1,1,2-Trichloroethane	**0.37**	**J**	1.0	0.33	ug/L			03/31/20 19:41	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/31/20 19:41	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/31/20 19:41	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/31/20 19:41	1
Vinyl chloride	**98**		1.0	0.50	ug/L			03/31/20 19:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/31/20 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/31/20 19:41*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*03/31/20 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*03/31/20 19:41*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/31/20 19:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**250**	*****	5.0	2.1	ug/L			03/31/20 19:29	5
Trichloroethene	**120**		5.0	2.4	ug/L			03/31/20 19:29	5

Client Sample ID: CWM-183-MW17

Lab Sample ID: 680-181793-3

Date Collected: 03/18/20 14:11
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/31/20 18:19	1
Acrylonitrile	10	U	20	10	ug/L			03/31/20 18:19	1
Benzene	0.43	U	1.0	0.43	ug/L			03/31/20 18:19	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/31/20 18:19	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/31/20 18:19	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/31/20 18:19	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			03/31/20 18:19	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/31/20 18:19	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/31/20 18:19	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/31/20 18:19	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/31/20 18:19	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/31/20 18:19	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 18:19	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/31/20 18:19	1
cis-1,2-Dichloroethene	**0.86**	**J**	1.0	0.41	ug/L			03/31/20 18:19	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/31/20 18:19	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/31/20 18:19	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/31/20 18:19	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/31/20 18:19	1
Dibromomethane	0.35	U *	1.0	0.35	ug/L			03/31/20 18:19	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/31/20 18:19	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/31/20 18:19	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/31/20 18:19	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/31/20 18:19	1

Client Sample ID: CWM-183-MW17
Lab Sample ID: 680-181793-3

Date Collected: 03/18/20 14:11
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/31/20 18:19	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/31/20 18:19	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/31/20 18:19	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/31/20 18:19	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/31/20 18:19	1
Iodomethane	5.0	U	10	5.0	ug/L			03/31/20 18:19	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 18:19	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/31/20 18:19	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/31/20 18:19	1
Styrene	0.27	U	1.0	0.27	ug/L			03/31/20 18:19	1
1,1,1,2-Tetrachloroethane	0.37	U *	1.0	0.37	ug/L			03/31/20 18:19	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/31/20 18:19	1
Tetrachloroethylene	0.74	U *	1.0	0.74	ug/L			03/31/20 18:19	1
Toluene	0.48	U	1.0	0.48	ug/L			03/31/20 18:19	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/31/20 18:19	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/31/20 18:19	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/31/20 18:19	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 18:19	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/31/20 18:19	1
Trichloroethene	**5.0**		1.0	0.48	ug/L			03/31/20 18:19	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/31/20 18:19	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/31/20 18:19	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			03/31/20 18:19	1
Vinyl chloride	**2.9**		1.0	0.50	ug/L			03/31/20 18:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/31/20 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/31/20 18:19*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 122*		*03/31/20 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*03/31/20 18:19*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*03/31/20 18:19*	*1*

Client Sample ID: CWM-183-MW15
Lab Sample ID: 680-181793-4

Date Collected: 03/18/20 09:51
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 11:20	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 11:20	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 11:20	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 11:20	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 11:20	1
Bromoform	0.43	U *	1.0	0.43	ug/L			03/30/20 11:20	1
Bromomethane	2.5	U * *1	5.0	2.5	ug/L			03/30/20 11:20	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 11:20	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 11:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 11:20	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 11:20	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 11:20	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW15

Date Collected: 03/18/20 09:51
Date Received: 03/19/20 08:45

Lab Sample ID: 680-181793-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 11:20	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 11:20	1
cis-1,2-Dichloroethene	**0.71**	**J**	1.0	0.41	ug/L			03/30/20 11:20	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 11:20	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 11:20	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 11:20	1
1,2-Dibromoethane	0.44	U *	1.0	0.44	ug/L			03/30/20 11:20	1
Dibromomethane	0.35	U *	1.0	0.35	ug/L			03/30/20 11:20	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 11:20	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 11:20	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 11:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 11:20	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 11:20	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 11:20	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 11:20	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 11:20	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 11:20	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 11:20	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 11:20	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 11:20	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 11:20	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 11:20	1
1,1,1,2-Tetrachloroethane	0.37	U *	1.0	0.37	ug/L			03/30/20 11:20	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 11:20	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 11:20	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 11:20	1
trans-1,4-Dichloro-2-butene	0.51	U *	2.0	0.51	ug/L			03/30/20 11:20	1
trans-1,2-Dichloroethene	**0.47**	**J**	1.0	0.37	ug/L			03/30/20 11:20	1
trans-1,3-Dichloropropene	0.42	U *	1.0	0.42	ug/L			03/30/20 11:20	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 11:20	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 11:20	1
Trichloroethene	**0.80**	**J**	1.0	0.48	ug/L			03/30/20 11:20	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 11:20	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 11:20	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			03/30/20 11:20	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 11:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/30/20 11:20*	*1*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*03/30/20 11:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*03/30/20 11:20*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/30/20 11:20*	*1*

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW19

Date Collected: 03/17/20 11:45
Date Received: 03/19/20 08:45

Lab Sample ID: 680-181793-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/28/20 23:11	1
Acrylonitrile	10	U	20	10	ug/L			03/28/20 23:11	1
Benzene	0.43	U	1.0	0.43	ug/L			03/28/20 23:11	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/28/20 23:11	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/28/20 23:11	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/28/20 23:11	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			03/28/20 23:11	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/28/20 23:11	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/28/20 23:11	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/28/20 23:11	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/28/20 23:11	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/28/20 23:11	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/28/20 23:11	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/28/20 23:11	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/28/20 23:11	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/28/20 23:11	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/28/20 23:11	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/28/20 23:11	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/28/20 23:11	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/28/20 23:11	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/28/20 23:11	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/28/20 23:11	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/28/20 23:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/28/20 23:11	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/28/20 23:11	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/28/20 23:11	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/28/20 23:11	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/28/20 23:11	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/28/20 23:11	1
Iodomethane	5.0	U	10	5.0	ug/L			03/28/20 23:11	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/28/20 23:11	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/28/20 23:11	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/28/20 23:11	1
Styrene	0.27	U	1.0	0.27	ug/L			03/28/20 23:11	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 23:11	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/28/20 23:11	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/28/20 23:11	1
Toluene	0.48	U	1.0	0.48	ug/L			03/28/20 23:11	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/28/20 23:11	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/28/20 23:11	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/28/20 23:11	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 23:11	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/28/20 23:11	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/28/20 23:11	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/28/20 23:11	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/28/20 23:11	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			03/28/20 23:11	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/28/20 23:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/28/20 23:11	1

Client Sample ID: CWM-183-MW19
Lab Sample ID: 680-181793-5

Date Collected: 03/17/20 11:45
Matrix: Water
Date Received: 03/19/20 08:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/28/20 23:11*	*1*
Dibromofluoromethane (Surr)	*132*	*X*	*80 - 122*		*03/28/20 23:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*03/28/20 23:11*	*1*
Toluene-d8 (Surr)	*117*		*80 - 120*		*03/28/20 23:11*	*1*

Client Sample ID: CWM-183-MW25
Lab Sample ID: 680-181793-6

Date Collected: 03/17/20 15:05
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 12:29	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 12:29	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 12:29	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 12:29	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 12:29	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 12:29	1
Bromomethane	2.5	U *	5.0	2.5	ug/L			03/30/20 12:29	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 12:29	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 12:29	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 12:29	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 12:29	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 12:29	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 12:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 12:29	1
cis-1,2-Dichloroethene	0.41	U *	1.0	0.41	ug/L			03/30/20 12:29	1
cis-1,3-Dichloropropene	0.40	U *	1.0	0.40	ug/L			03/30/20 12:29	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 12:29	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 12:29	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 12:29	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 12:29	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 12:29	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 12:29	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 12:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 12:29	1
1,1-Dichloroethene	0.36	U *	1.0	0.36	ug/L			03/30/20 12:29	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 12:29	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 12:29	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 12:29	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 12:29	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 12:29	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 12:29	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 12:29	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 12:29	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 12:29	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 12:29	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 12:29	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 12:29	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 12:29	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 12:29	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW25

Lab Sample ID: 680-181793-6

Date Collected: 03/17/20 15:05
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 12:29	1
trans-1,3-Dichloropropene	0.42	U *	1.0	0.42	ug/L			03/30/20 12:29	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 12:29	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 12:29	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 12:29	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 12:29	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 12:29	1
Vinyl acetate	0.81	U *	2.0	0.81	ug/L			03/30/20 12:29	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 12:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*03/30/20 12:29*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*03/30/20 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*03/30/20 12:29*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*03/30/20 12:29*	*1*

Client Sample ID: CWM-183-MW31

Lab Sample ID: 680-181793-7

Date Collected: 03/17/20 10:21
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/28/20 16:10	1
Acrylonitrile	10	U	20	10	ug/L			03/28/20 16:10	1
Benzene	0.43	U	1.0	0.43	ug/L			03/28/20 16:10	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/28/20 16:10	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/28/20 16:10	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/28/20 16:10	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/28/20 16:10	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/28/20 16:10	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/28/20 16:10	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/28/20 16:10	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/28/20 16:10	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/28/20 16:10	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/28/20 16:10	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/28/20 16:10	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/28/20 16:10	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/28/20 16:10	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/28/20 16:10	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/28/20 16:10	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/28/20 16:10	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/28/20 16:10	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/28/20 16:10	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/28/20 16:10	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/28/20 16:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/28/20 16:10	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/28/20 16:10	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/28/20 16:10	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/28/20 16:10	1

Client Sample ID: CWM-183-MW31
Lab Sample ID: 680-181793-7
Date Collected: 03/17/20 10:21
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/28/20 16:10	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/28/20 16:10	1
Iodomethane	5.0	U	10	5.0	ug/L			03/28/20 16:10	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/28/20 16:10	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/28/20 16:10	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/28/20 16:10	1
Styrene	0.27	U	1.0	0.27	ug/L			03/28/20 16:10	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 16:10	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/28/20 16:10	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/28/20 16:10	1
Toluene	0.48	U	1.0	0.48	ug/L			03/28/20 16:10	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/28/20 16:10	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/28/20 16:10	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/28/20 16:10	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 16:10	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/28/20 16:10	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/28/20 16:10	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/28/20 16:10	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/28/20 16:10	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/28/20 16:10	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/28/20 16:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/28/20 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/28/20 16:10*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*03/28/20 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*03/28/20 16:10*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/28/20 16:10*	*1*

Client Sample ID: CWM-183-MW28
Lab Sample ID: 680-181793-8
Date Collected: 03/17/20 14:11
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/28/20 16:34	1
Acrylonitrile	10	U	20	10	ug/L			03/28/20 16:34	1
Benzene	0.43	U	1.0	0.43	ug/L			03/28/20 16:34	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/28/20 16:34	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/28/20 16:34	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/28/20 16:34	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/28/20 16:34	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/28/20 16:34	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/28/20 16:34	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/28/20 16:34	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/28/20 16:34	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/28/20 16:34	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/28/20 16:34	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/28/20 16:34	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/28/20 16:34	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW28

Lab Sample ID: 680-181793-8

Date Collected: 03/17/20 14:11
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/28/20 16:34	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/28/20 16:34	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/28/20 16:34	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/28/20 16:34	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/28/20 16:34	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/28/20 16:34	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/28/20 16:34	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/28/20 16:34	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/28/20 16:34	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/28/20 16:34	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/28/20 16:34	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/28/20 16:34	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/28/20 16:34	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/28/20 16:34	1
Iodomethane	5.0	U	10	5.0	ug/L			03/28/20 16:34	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/28/20 16:34	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/28/20 16:34	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/28/20 16:34	1
Styrene	0.27	U	1.0	0.27	ug/L			03/28/20 16:34	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 16:34	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/28/20 16:34	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/28/20 16:34	1
Toluene	0.48	U	1.0	0.48	ug/L			03/28/20 16:34	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/28/20 16:34	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/28/20 16:34	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/28/20 16:34	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 16:34	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/28/20 16:34	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/28/20 16:34	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/28/20 16:34	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/28/20 16:34	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/28/20 16:34	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/28/20 16:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/28/20 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*03/28/20 16:34*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/28/20 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*03/28/20 16:34*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/28/20 16:34*	*1*

Client Sample ID: CWM-183-MW22

Lab Sample ID: 680-181793-9

Date Collected: 03/18/20 10:10
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 11:50	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 11:50	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 11:50	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: CWM-183-MW22
Date Collected: 03/18/20 10:10
Date Received: 03/19/20 08:45

Lab Sample ID: 680-181793-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 11:50	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 11:50	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 11:50	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 11:50	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 11:50	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 11:50	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 11:50	1
Chlorobenzene	**1.8**		1.0	0.26	ug/L			03/30/20 11:50	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 11:50	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 11:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 11:50	1
cis-1,2-Dichloroethene	**11**		1.0	0.41	ug/L			03/30/20 11:50	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 11:50	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 11:50	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 11:50	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 11:50	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 11:50	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 11:50	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 11:50	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 11:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 11:50	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 11:50	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 11:50	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 11:50	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 11:50	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 11:50	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 11:50	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 11:50	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 11:50	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 11:50	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 11:50	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 11:50	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 11:50	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 11:50	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 11:50	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 11:50	1
trans-1,2-Dichloroethene	**0.58**	**J**	1.0	0.37	ug/L			03/30/20 11:50	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 11:50	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 11:50	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 11:50	1
Trichloroethene	**9.5**		1.0	0.48	ug/L			03/30/20 11:50	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 11:50	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 11:50	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 11:50	1
Vinyl chloride	**5.9**		1.0	0.50	ug/L			03/30/20 11:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*03/30/20 11:50*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 11:50*	*1*

Client Sample ID: CWM-183-MW22
Lab Sample ID: 680-181793-9
Date Collected: 03/18/20 10:10
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*03/30/20 11:50*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 11:50*	*1*

Client Sample ID: CWM-183-MW21
Lab Sample ID: 680-181793-10
Date Collected: 03/18/20 09:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**12**		10	7.0	ug/L			03/30/20 12:13	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 12:13	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 12:13	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 12:13	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 12:13	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 12:13	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 12:13	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 12:13	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 12:13	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 12:13	1
Chlorobenzene	**0.97**	**J**	1.0	0.26	ug/L			03/30/20 12:13	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 12:13	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 12:13	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 12:13	1
cis-1,2-Dichloroethene	**4.0**		1.0	0.41	ug/L			03/30/20 12:13	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 12:13	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 12:13	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 12:13	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 12:13	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 12:13	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 12:13	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 12:13	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 12:13	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 12:13	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 12:13	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 12:13	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 12:13	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 12:13	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 12:13	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 12:13	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 12:13	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 12:13	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 12:13	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 12:13	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 12:13	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 12:13	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 12:13	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 12:13	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 12:13	1
trans-1,2-Dichloroethene	**0.69**	**J**	1.0	0.37	ug/L			03/30/20 12:13	1

Client Sample ID: CWM-183-MW21
Lab Sample ID: 680-181793-10

Date Collected: 03/18/20 09:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 12:13	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 12:13	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 12:13	1
Trichloroethene	**12**		1.0	0.48	ug/L			03/30/20 12:13	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 12:13	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 12:13	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 12:13	1
Vinyl chloride	**6.1**		1.0	0.50	ug/L			03/30/20 12:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*03/30/20 12:13*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*03/30/20 12:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*03/30/20 12:13*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*03/30/20 12:13*	*1*

Client Sample ID: CWM-183-MW04
Lab Sample ID: 680-181793-11

Date Collected: 03/18/20 11:45
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**7.9**	**J**	10	7.0	ug/L			03/30/20 12:36	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 12:36	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 12:36	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 12:36	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 12:36	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 12:36	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 12:36	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 12:36	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 12:36	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 12:36	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 12:36	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 12:36	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 12:36	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 12:36	1
cis-1,2-Dichloroethene	**4.2**		1.0	0.41	ug/L			03/30/20 12:36	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 12:36	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 12:36	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 12:36	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 12:36	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 12:36	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 12:36	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 12:36	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 12:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 12:36	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 12:36	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 12:36	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 12:36	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 12:36	1

Client Sample ID: CWM-183-MW04
Lab Sample ID: 680-181793-11
Date Collected: 03/18/20 11:45
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 12:36	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 12:36	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 12:36	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 12:36	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 12:36	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 12:36	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 12:36	1
1,1,2,2-Tetrachloroethane	**1.6**		1.0	0.62	ug/L			03/30/20 12:36	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 12:36	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 12:36	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 12:36	1
trans-1,2-Dichloroethene	**1.7**		1.0	0.37	ug/L			03/30/20 12:36	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 12:36	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 12:36	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 12:36	1
Trichloroethene	**1.0**		1.0	0.48	ug/L			03/30/20 12:36	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 12:36	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 12:36	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 12:36	1
Vinyl chloride	**4.0**		1.0	0.50	ug/L			03/30/20 12:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/30/20 12:36*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 12:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*03/30/20 12:36*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 12:36*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/27/20 13:52	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/27/20 13:52	1
Methane	**77**		0.58	0.29	ug/L			03/27/20 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.4**		1.0	0.50	mg/L			03/27/20 14:21	1
Total Organic Carbon - Quad	**2.4**		1.0	0.50	mg/L			03/27/20 14:21	1

Client Sample ID: DUP #341
Lab Sample ID: 680-181793-12
Date Collected: 03/18/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 13:00	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 13:00	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 13:00	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 13:00	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 13:00	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 13:00	1

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Client Sample ID: DUP #341

Date Collected: 03/18/20 00:00
Date Received: 03/19/20 08:45

Lab Sample ID: 680-181793-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 13:00	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 13:00	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 13:00	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 13:00	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 13:00	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 13:00	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 13:00	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 13:00	1
cis-1,2-Dichloroethene	**3.3**		1.0	0.41	ug/L			03/30/20 13:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 13:00	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 13:00	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 13:00	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 13:00	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 13:00	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 13:00	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 13:00	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 13:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 13:00	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 13:00	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 13:00	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 13:00	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 13:00	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 13:00	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 13:00	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 13:00	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 13:00	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 13:00	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 13:00	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 13:00	1
1,1,2,2-Tetrachloroethane	**1.1**		1.0	0.62	ug/L			03/30/20 13:00	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 13:00	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 13:00	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 13:00	1
trans-1,2-Dichloroethene	**1.6**		1.0	0.37	ug/L			03/30/20 13:00	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 13:00	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 13:00	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 13:00	1
Trichloroethene	**0.81**	**J**	1.0	0.48	ug/L			03/30/20 13:00	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 13:00	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 13:00	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 13:00	1
Vinyl chloride	**3.8**		1.0	0.50	ug/L			03/30/20 13:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/30/20 13:00*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 13:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*03/30/20 13:00*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 13:00*	*1*

Client Sample ID: DUP #341
Lab Sample ID: 680-181793-12
Date Collected: 03/18/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/27/20 14:05	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/27/20 14:05	1
Methane	**85**		0.58	0.29	ug/L			03/27/20 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.5**		1.0	0.50	mg/L			03/27/20 14:39	1
Total Organic Carbon - Quad	**2.5**		1.0	0.50	mg/L			03/27/20 14:39	1

Client Sample ID: DUP #342
Lab Sample ID: 680-181793-13
Date Collected: 03/17/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/28/20 16:57	1
Acrylonitrile	10	U	20	10	ug/L			03/28/20 16:57	1
Benzene	0.43	U	1.0	0.43	ug/L			03/28/20 16:57	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/28/20 16:57	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/28/20 16:57	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/28/20 16:57	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/28/20 16:57	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/28/20 16:57	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/28/20 16:57	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/28/20 16:57	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/28/20 16:57	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/28/20 16:57	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/28/20 16:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/28/20 16:57	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/28/20 16:57	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/28/20 16:57	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/28/20 16:57	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/28/20 16:57	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/28/20 16:57	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/28/20 16:57	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/28/20 16:57	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/28/20 16:57	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/28/20 16:57	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/28/20 16:57	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/28/20 16:57	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/28/20 16:57	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/28/20 16:57	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/28/20 16:57	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/28/20 16:57	1
Iodomethane	5.0	U	10	5.0	ug/L			03/28/20 16:57	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/28/20 16:57	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/28/20 16:57	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/28/20 16:57	1
Styrene	0.27	U	1.0	0.27	ug/L			03/28/20 16:57	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 16:57	1

Client Sample ID: DUP #342
Lab Sample ID: 680-181793-13
Date Collected: 03/17/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/28/20 16:57	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/28/20 16:57	1
Toluene	0.48	U	1.0	0.48	ug/L			03/28/20 16:57	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/28/20 16:57	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/28/20 16:57	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/28/20 16:57	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 16:57	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/28/20 16:57	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/28/20 16:57	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/28/20 16:57	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/28/20 16:57	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/28/20 16:57	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/28/20 16:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/28/20 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*03/28/20 16:57*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/28/20 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*03/28/20 16:57*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/28/20 16:57*	*1*

Client Sample ID: TB #548
Lab Sample ID: 680-181793-14
Date Collected: 03/18/20 15:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 11:26	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 11:26	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 11:26	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 11:26	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 11:26	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 11:26	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 11:26	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 11:26	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 11:26	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 11:26	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 11:26	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 11:26	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 11:26	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 11:26	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 11:26	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 11:26	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 11:26	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 11:26	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 11:26	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 11:26	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 11:26	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 11:26	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 11:26	1

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Client Sample ID: TB #548
Lab Sample ID: 680-181793-14
Date Collected: 03/18/20 15:00
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 11:26	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 11:26	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 11:26	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 11:26	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 11:26	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 11:26	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 11:26	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 11:26	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 11:26	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 11:26	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 11:26	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 11:26	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 11:26	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 11:26	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 11:26	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 11:26	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 11:26	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 11:26	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 11:26	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 11:26	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 11:26	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 11:26	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 11:26	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 11:26	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 11:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/30/20 11:26*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*03/30/20 11:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*03/30/20 11:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 11:26*	*1*

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-181793-15
Date Collected: 03/18/20 13:55
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35	U	50	35	ug/L			03/30/20 17:57	5
Acrylonitrile	50	U	100	50	ug/L			03/30/20 17:57	5
Benzene	2.2	U	5.0	2.2	ug/L			03/30/20 17:57	5
Bromochloromethane	2.3	U	5.0	2.3	ug/L			03/30/20 17:57	5
Bromodichloromethane	2.2	U	5.0	2.2	ug/L			03/30/20 17:57	5
Bromoform	2.2	U	5.0	2.2	ug/L			03/30/20 17:57	5
Bromomethane	13	U * F1	25	13	ug/L			03/30/20 17:57	5
2-Butanone (MEK)	17	U	50	17	ug/L			03/30/20 17:57	5
Carbon disulfide	5.0	U	10	5.0	ug/L			03/30/20 17:57	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			03/30/20 17:57	5
Chlorobenzene	1.3	U	5.0	1.3	ug/L			03/30/20 17:57	5

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-181793-15

Date Collected: 03/18/20 13:55
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	13	U *	25	13	ug/L			03/30/20 17:57	5
Chloroform	2.5	U	5.0	2.5	ug/L			03/30/20 17:57	5
Chloromethane	2.0	U	5.0	2.0	ug/L			03/30/20 17:57	5
cis-1,2-Dichloroethene	**180**		5.0	2.1	ug/L			03/30/20 17:57	5
cis-1,3-Dichloropropene	2.0	U	5.0	2.0	ug/L			03/30/20 17:57	5
Dibromochloromethane	1.6	U	5.0	1.6	ug/L			03/30/20 17:57	5
1,2-Dibromo-3-Chloropropane	5.5	U	25	5.5	ug/L			03/30/20 17:57	5
1,2-Dibromoethane	2.2	U	5.0	2.2	ug/L			03/30/20 17:57	5
Dibromomethane	1.8	U	5.0	1.8	ug/L			03/30/20 17:57	5
1,2-Dichlorobenzene	1.9	U	5.0	1.9	ug/L			03/30/20 17:57	5
1,4-Dichlorobenzene	2.3	U	5.0	2.3	ug/L			03/30/20 17:57	5
1,1-Dichloroethane	1.9	U	5.0	1.9	ug/L			03/30/20 17:57	5
1,2-Dichloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 17:57	5
1,1-Dichloroethene	**15**		5.0	1.8	ug/L			03/30/20 17:57	5
1,2-Dichloropropane	3.4	U	5.0	3.4	ug/L			03/30/20 17:57	5
1,3-Dichloropropane	1.7	U	5.0	1.7	ug/L			03/30/20 17:57	5
Ethylbenzene	1.7	U	5.0	1.7	ug/L			03/30/20 17:57	5
2-Hexanone	10	U	50	10	ug/L			03/30/20 17:57	5
Iodomethane	25	U F2	50	25	ug/L			03/30/20 17:57	5
Methylene Chloride	13	U	25	13	ug/L			03/30/20 17:57	5
4-Methyl-2-pentanone (MIBK)	11	U	50	11	ug/L			03/30/20 17:57	5
Methyl tert-butyl ether	1.5	U	50	1.5	ug/L			03/30/20 17:57	5
Styrene	1.4	U	5.0	1.4	ug/L			03/30/20 17:57	5
1,1,1,2-Tetrachloroethane	1.9	U	5.0	1.9	ug/L			03/30/20 17:57	5
1,1,2,2-Tetrachloroethane	**7.7**		5.0	3.1	ug/L			03/30/20 17:57	5
Tetrachloroethylene	**12**		5.0	3.7	ug/L			03/30/20 17:57	5
Toluene	2.4	U	5.0	2.4	ug/L			03/30/20 17:57	5
trans-1,4-Dichloro-2-butene	2.6	U	10	2.6	ug/L			03/30/20 17:57	5
trans-1,2-Dichloroethene	**15**		5.0	1.9	ug/L			03/30/20 17:57	5
trans-1,3-Dichloropropene	2.1	U *	5.0	2.1	ug/L			03/30/20 17:57	5
1,1,1-Trichloroethane	1.9	U	5.0	1.9	ug/L			03/30/20 17:57	5
1,1,2-Trichloroethane	1.7	U	5.0	1.7	ug/L			03/30/20 17:57	5
Trichlorofluoromethane	2.1	U	5.0	2.1	ug/L			03/30/20 17:57	5
1,2,3-Trichloropropane	2.0	U	5.0	2.0	ug/L			03/30/20 17:57	5
Vinyl acetate	4.1	U	10	4.1	ug/L			03/30/20 17:57	5
Vinyl chloride	**30**		5.0	2.5	ug/L			03/30/20 17:57	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			03/30/20 17:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*03/30/20 17:57*	*5*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*03/30/20 17:57*	*5*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*03/30/20 17:57*	*5*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/30/20 17:57*	*5*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**850**		25	12	ug/L			03/31/20 18:19	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/31/20 18:19*	*25*

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-181793-15
Date Collected: 03/18/20 13:55
Matrix: Water
Date Received: 03/19/20 08:45

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*80 - 122*		*03/31/20 18:19*	*25*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*03/31/20 18:19*	*25*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/31/20 18:19*	*25*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**5.8**		1.1	0.55	ug/L			03/27/20 14:30	1
Ethylene	**7.4**		1.0	0.50	ug/L			03/27/20 14:30	1
Methane (TCD)	**730**		390	39	ug/L			03/27/20 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.2**		1.0	0.50	mg/L			03/27/20 14:57	1
Total Organic Carbon - Quad	**1.2**		1.0	0.50	mg/L			03/27/20 14:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-612986/10
Matrix: Water
Analysis Batch: 612986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/28/20 15:17	1
Acrylonitrile	10	U	20	10	ug/L			03/28/20 15:17	1
Benzene	0.43	U	1.0	0.43	ug/L			03/28/20 15:17	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/28/20 15:17	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/28/20 15:17	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/28/20 15:17	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/28/20 15:17	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/28/20 15:17	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/28/20 15:17	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/28/20 15:17	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/28/20 15:17	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/28/20 15:17	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/28/20 15:17	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/28/20 15:17	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/28/20 15:17	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/28/20 15:17	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/28/20 15:17	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/28/20 15:17	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/28/20 15:17	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/28/20 15:17	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/28/20 15:17	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/28/20 15:17	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/28/20 15:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/28/20 15:17	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/28/20 15:17	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/28/20 15:17	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/28/20 15:17	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/28/20 15:17	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/28/20 15:17	1
Iodomethane	5.0	U	10	5.0	ug/L			03/28/20 15:17	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/28/20 15:17	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/28/20 15:17	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/28/20 15:17	1
Styrene	0.27	U	1.0	0.27	ug/L			03/28/20 15:17	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 15:17	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/28/20 15:17	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/28/20 15:17	1
Toluene	0.48	U	1.0	0.48	ug/L			03/28/20 15:17	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/28/20 15:17	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/28/20 15:17	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/28/20 15:17	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 15:17	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/28/20 15:17	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/28/20 15:17	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/28/20 15:17	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/28/20 15:17	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/28/20 15:17	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/28/20 15:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-612986/10
Matrix: Water
Analysis Batch: 612986

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/28/20 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/28/20 15:17*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 122*		*03/28/20 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*03/28/20 15:17*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/28/20 15:17*	*1*

Lab Sample ID: LCS 680-612986/4
Matrix: Water
Analysis Batch: 612986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	282		ug/L		113	70 - 135
Acrylonitrile	500	532		ug/L		106	80 - 123
Benzene	50.0	52.5		ug/L		105	80 - 120
Bromochloromethane	50.0	51.0		ug/L		102	80 - 120
Bromodichloromethane	50.0	51.6		ug/L		103	80 - 120
Bromoform	50.0	59.8		ug/L		120	74 - 126
Bromomethane	50.0	65.4	*	ug/L		131	62 - 130
2-Butanone (MEK)	250	273		ug/L		109	80 - 131
Carbon disulfide	50.0	48.6		ug/L		97	80 - 120
Carbon tetrachloride	50.0	55.0		ug/L		110	76 - 123
Chlorobenzene	50.0	54.5		ug/L		109	80 - 120
Chloroethane	50.0	57.0		ug/L		114	66 - 135
Chloroform	50.0	50.3		ug/L		101	80 - 120
Chloromethane	50.0	46.3		ug/L		93	69 - 131
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120
cis-1,3-Dichloropropene	50.0	54.7		ug/L		109	80 - 120
Dibromochloromethane	50.0	53.0		ug/L		106	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.4		ug/L		107	71 - 134
1,2-Dibromoethane	50.0	54.3		ug/L		109	80 - 120
Dibromomethane	50.0	52.8		ug/L		106	80 - 120
1,2-Dichlorobenzene	50.0	52.9		ug/L		106	80 - 120
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	51.9		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	55.7		ug/L		111	76 - 120
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 120
1,3-Dichloropropane	50.0	52.5		ug/L		105	80 - 120
Ethylbenzene	50.0	54.8		ug/L		110	80 - 120
2-Hexanone	250	268		ug/L		107	74 - 127
Iodomethane	50.0	43.0		ug/L		86	52 - 142
Methylene Chloride	50.0	46.2		ug/L		92	80 - 120
4-Methyl-2-pentanone (MIBK)	250	267		ug/L		107	76 - 124
Methyl tert-butyl ether	50.0	53.3		ug/L		107	80 - 120
Styrene	50.0	57.7		ug/L		115	80 - 120
1,1,1,2-Tetrachloroethane	50.0	60.6		ug/L		121	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-612986/4
Matrix: Water
Analysis Batch: 612986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	56.7		ug/L		113	80 - 120
Tetrachloroethylene	50.0	56.7		ug/L		113	80 - 121
Toluene	50.0	52.7		ug/L		105	80 - 113
trans-1,4-Dichloro-2-butene	50.0	60.3		ug/L		121	68 - 125
trans-1,2-Dichloroethene	50.0	52.5		ug/L		105	80 - 120
trans-1,3-Dichloropropene	50.0	56.3		ug/L		113	80 - 120
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	80 - 120
Trichloroethene	50.0	55.5		ug/L		111	80 - 120
Trichlorofluoromethane	50.0	59.0		ug/L		118	60 - 141
1,2,3-Trichloropropane	50.0	55.9		ug/L		112	80 - 123
Vinyl acetate	100	140	*	ug/L		140	67 - 135
Vinyl chloride	50.0	50.1		ug/L		100	71 - 128
Xylenes, Total	100	110		ug/L		110	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*
Toluene-d8 (Surr)	*110*		*80 - 120*

Lab Sample ID: LCSD 680-612986/5
Matrix: Water
Analysis Batch: 612986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	257		ug/L		103	70 - 135	10	30
Acrylonitrile	500	500		ug/L		100	80 - 123	6	20
Benzene	50.0	51.7		ug/L		103	80 - 120	1	20
Bromochloromethane	50.0	50.4		ug/L		101	80 - 120	1	20
Bromodichloromethane	50.0	50.6		ug/L		101	80 - 120	2	20
Bromoform	50.0	58.9		ug/L		118	74 - 126	1	20
Bromomethane	50.0	67.1	*	ug/L		134	62 - 130	2	20
2-Butanone (MEK)	250	260		ug/L		104	80 - 131	5	20
Carbon disulfide	50.0	48.3		ug/L		97	80 - 120	1	20
Carbon tetrachloride	50.0	54.7		ug/L		109	76 - 123	1	20
Chlorobenzene	50.0	54.3		ug/L		109	80 - 120	0	20
Chloroethane	50.0	57.3		ug/L		115	66 - 135	0	20
Chloroform	50.0	50.1		ug/L		100	80 - 120	0	20
Chloromethane	50.0	46.7		ug/L		93	69 - 131	1	30
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	80 - 120	0	20
Dibromochloromethane	50.0	52.6		ug/L		105	80 - 121	1	20
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/L		104	71 - 134	3	20
1,2-Dibromoethane	50.0	53.6		ug/L		107	80 - 120	1	20
Dibromomethane	50.0	51.4		ug/L		103	80 - 120	3	20
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	80 - 120	1	20
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-612986/5
Matrix: Water
Analysis Batch: 612986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120	4	20
1,2-Dichloroethane	50.0	50.1		ug/L		100	80 - 120	2	50
1,1-Dichloroethene	50.0	53.0		ug/L		106	76 - 120	5	20
1,2-Dichloropropane	50.0	50.0		ug/L		100	80 - 120	2	20
1,3-Dichloropropane	50.0	51.0		ug/L		102	80 - 120	3	20
Ethylbenzene	50.0	55.1		ug/L		110	80 - 120	1	20
2-Hexanone	250	260		ug/L		104	74 - 127	3	20
Iodomethane	50.0	45.7		ug/L		91	52 - 142	6	30
Methylene Chloride	50.0	46.0		ug/L		92	80 - 120	0	20
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	76 - 124	3	20
Methyl tert-butyl ether	50.0	51.7		ug/L		103	80 - 120	3	20
Styrene	50.0	57.9		ug/L		116	80 - 120	0	20
1,1,1,2-Tetrachloroethane	50.0	60.5		ug/L		121	80 - 121	0	20
1,1,2,2-Tetrachloroethane	50.0	55.7		ug/L		111	80 - 120	2	20
Tetrachloroethylene	50.0	57.2		ug/L		114	80 - 121	1	20
Toluene	50.0	53.0		ug/L		106	80 - 113	1	20
trans-1,4-Dichloro-2-butene	50.0	59.1		ug/L		118	68 - 125	2	30
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	55.4		ug/L		111	80 - 120	2	30
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	80 - 120	1	20
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	80 - 120	4	20
Trichloroethene	50.0	54.6		ug/L		109	80 - 120	2	20
Trichlorofluoromethane	50.0	59.3		ug/L		119	60 - 141	0	20
1,2,3-Trichloropropane	50.0	56.5		ug/L		113	80 - 123	1	30
Vinyl acetate	100	135		ug/L		135	67 - 135	4	20
Vinyl chloride	50.0	49.8		ug/L		100	71 - 128	1	20
Xylenes, Total	100	112		ug/L		112	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: MB 680-612992/10
Matrix: Water
Analysis Batch: 612992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/28/20 15:23	1
Acrylonitrile	10	U	20	10	ug/L			03/28/20 15:23	1
Benzene	0.43	U	1.0	0.43	ug/L			03/28/20 15:23	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/28/20 15:23	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/28/20 15:23	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/28/20 15:23	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/28/20 15:23	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/28/20 15:23	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/28/20 15:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-612992/10
Matrix: Water
Analysis Batch: 612992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/28/20 15:23	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/28/20 15:23	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/28/20 15:23	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/28/20 15:23	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/28/20 15:23	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/28/20 15:23	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/28/20 15:23	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/28/20 15:23	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/28/20 15:23	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/28/20 15:23	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/28/20 15:23	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/28/20 15:23	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/28/20 15:23	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/28/20 15:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/28/20 15:23	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/28/20 15:23	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/28/20 15:23	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/28/20 15:23	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/28/20 15:23	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/28/20 15:23	1
Iodomethane	5.0	U	10	5.0	ug/L			03/28/20 15:23	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/28/20 15:23	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/28/20 15:23	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/28/20 15:23	1
Styrene	0.27	U	1.0	0.27	ug/L			03/28/20 15:23	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 15:23	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/28/20 15:23	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/28/20 15:23	1
Toluene	0.48	U	1.0	0.48	ug/L			03/28/20 15:23	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/28/20 15:23	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/28/20 15:23	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/28/20 15:23	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/28/20 15:23	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/28/20 15:23	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/28/20 15:23	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/28/20 15:23	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/28/20 15:23	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/28/20 15:23	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/28/20 15:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/28/20 15:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/28/20 15:23*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*03/28/20 15:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*03/28/20 15:23*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/28/20 15:23*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-612992/4
Matrix: Water
Analysis Batch: 612992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	293		ug/L		117	70 - 135
Acrylonitrile	500	556		ug/L		111	80 - 123
Benzene	50.0	51.2		ug/L		102	80 - 120
Bromochloromethane	50.0	52.9		ug/L		106	80 - 120
Bromodichloromethane	50.0	52.3		ug/L		105	80 - 120
Bromoform	50.0	52.0		ug/L		104	74 - 126
Bromomethane	50.1	57.4		ug/L		115	62 - 130
2-Butanone (MEK)	250	286		ug/L		114	80 - 131
Carbon disulfide	50.0	49.9		ug/L		100	80 - 120
Carbon tetrachloride	50.0	50.8		ug/L		102	76 - 123
Chlorobenzene	50.0	49.5		ug/L		99	80 - 120
Chloroethane	50.0	48.7		ug/L		97	66 - 135
Chloroform	50.0	51.2		ug/L		102	80 - 120
Chloromethane	50.0	51.2		ug/L		102	69 - 131
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	80 - 120
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	80 - 120
Dibromochloromethane	50.0	52.2		ug/L		104	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.8		ug/L		108	71 - 134
1,2-Dibromoethane	50.0	53.5		ug/L		107	80 - 120
Dibromomethane	50.0	53.4		ug/L		107	80 - 120
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120
1,4-Dichlorobenzene	50.0	48.3		ug/L		97	80 - 120
1,1-Dichloroethane	50.0	50.9		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	53.3		ug/L		107	80 - 120
1,1-Dichloroethene	50.0	50.6		ug/L		101	76 - 120
1,2-Dichloropropane	50.0	52.1		ug/L		104	80 - 120
1,3-Dichloropropane	50.0	53.1		ug/L		106	80 - 120
Ethylbenzene	50.0	51.0		ug/L		102	80 - 120
2-Hexanone	250	297		ug/L		119	74 - 127
Iodomethane	50.0	60.4		ug/L		121	52 - 142
Methylene Chloride	50.0	47.0		ug/L		94	80 - 120
4-Methyl-2-pentanone (MIBK)	250	287		ug/L		115	76 - 124
Methyl tert-butyl ether	50.0	51.3		ug/L		103	80 - 120
Styrene	50.0	53.7		ug/L		107	80 - 120
1,1,1,2-Tetrachloroethane	50.0	50.1		ug/L		100	80 - 121
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	80 - 120
Tetrachloroethylene	50.0	49.3		ug/L		99	80 - 121
Toluene	50.0	51.0		ug/L		102	80 - 113
trans-1,4-Dichloro-2-butene	50.0	58.8		ug/L		118	68 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	55.7		ug/L		111	80 - 120
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 120
Trichloroethene	50.0	50.9		ug/L		102	80 - 120
Trichlorofluoromethane	50.0	51.0		ug/L		102	60 - 141
1,2,3-Trichloropropane	50.0	52.5		ug/L		105	80 - 123
Vinyl acetate	100	127		ug/L		127	67 - 135
Vinyl chloride	50.1	52.5		ug/L		105	71 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-612992/4
Matrix: Water
Analysis Batch: 612992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			100	102		ug/L		102	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 680-612992/5
Matrix: Water
Analysis Batch: 612992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	292		ug/L		117	70 - 135	0	30
Acrylonitrile			500	550		ug/L		110	80 - 123	1	20
Benzene			50.0	52.2		ug/L		104	80 - 120	2	20
Bromochloromethane			50.0	52.5		ug/L		105	80 - 120	1	20
Bromodichloromethane			50.0	52.3		ug/L		105	80 - 120	0	20
Bromoform			50.0	51.4		ug/L		103	74 - 126	1	20
Bromomethane			50.1	59.3		ug/L		118	62 - 130	3	20
2-Butanone (MEK)			250	278		ug/L		111	80 - 131	3	20
Carbon disulfide			50.0	51.3		ug/L		103	80 - 120	3	20
Carbon tetrachloride			50.0	51.9		ug/L		104	76 - 123	2	20
Chlorobenzene			50.0	48.7		ug/L		97	80 - 120	2	20
Chloroethane			50.0	48.8		ug/L		98	66 - 135	0	20
Chloroform			50.0	51.5		ug/L		103	80 - 120	1	20
Chloromethane			50.0	49.2		ug/L		98	69 - 131	4	30
cis-1,2-Dichloroethene			50.0	54.2		ug/L		108	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	53.8		ug/L		108	80 - 120	0	20
Dibromochloromethane			50.0	52.2		ug/L		104	80 - 121	0	20
1,2-Dibromo-3-Chloropropane			50.0	52.2		ug/L		104	71 - 134	3	20
1,2-Dibromoethane			50.0	53.5		ug/L		107	80 - 120	0	20
Dibromomethane			50.0	53.5		ug/L		107	80 - 120	0	20
1,2-Dichlorobenzene			50.0	50.1		ug/L		100	80 - 120	1	20
1,4-Dichlorobenzene			50.0	48.1		ug/L		96	80 - 120	0	20
1,1-Dichloroethane			50.0	50.3		ug/L		101	80 - 120	1	20
1,2-Dichloroethane			50.0	52.8		ug/L		106	80 - 120	1	50
1,1-Dichloroethene			50.0	52.5		ug/L		105	76 - 120	4	20
1,2-Dichloropropane			50.0	52.6		ug/L		105	80 - 120	1	20
1,3-Dichloropropane			50.0	52.6		ug/L		105	80 - 120	1	20
Ethylbenzene			50.0	50.8		ug/L		102	80 - 120	1	20
2-Hexanone			250	293		ug/L		117	74 - 127	1	20
Iodomethane			50.0	61.2		ug/L		122	52 - 142	1	30
Methylene Chloride			50.0	46.7		ug/L		93	80 - 120	1	20
4-Methyl-2-pentanone (MIBK)			250	282		ug/L		113	76 - 124	2	20
Methyl tert-butyl ether			50.0	50.2		ug/L		100	80 - 120	2	20
Styrene			50.0	53.3		ug/L		107	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	50.2		ug/L		100	80 - 121	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-612992/5
Matrix: Water
Analysis Batch: 612992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane			50.0	50.9		ug/L		102	80 - 120	2	20
Tetrachloroethylene			50.0	51.3		ug/L		103	80 - 121	4	20
Toluene			50.0	51.8		ug/L		104	80 - 113	2	20
trans-1,4-Dichloro-2-butene			50.0	55.3		ug/L		111	68 - 125	6	30
trans-1,2-Dichloroethene			50.0	52.2		ug/L		104	80 - 120	0	20
trans-1,3-Dichloropropene			50.0	56.1		ug/L		112	80 - 120	1	30
1,1,1-Trichloroethane			50.0	52.0		ug/L		104	80 - 120	2	20
1,1,2-Trichloroethane			50.0	52.0		ug/L		104	80 - 120	1	20
Trichloroethene			50.0	52.6		ug/L		105	80 - 120	3	20
Trichlorofluoromethane			50.0	53.3		ug/L		106	60 - 141	4	20
1,2,3-Trichloropropane			50.0	50.9		ug/L		102	80 - 123	3	30
Vinyl acetate			100	120		ug/L		120	67 - 135	5	20
Vinyl chloride			50.1	54.1		ug/L		108	71 - 128	3	20
Xylenes, Total			100	102		ug/L		102	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-613128/10
Matrix: Water
Analysis Batch: 613128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 10:57	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 10:57	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 10:57	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 10:57	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:57	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 10:57	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:57	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 10:57	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 10:57	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 10:57	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 10:57	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:57	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 10:57	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 10:57	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 10:57	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 10:57	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 10:57	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 10:57	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:57	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 10:57	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 10:57	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 10:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613128/10
Matrix: Water
Analysis Batch: 613128

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 10:57	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 10:57	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 10:57	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 10:57	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 10:57	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 10:57	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 10:57	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 10:57	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 10:57	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 10:57	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 10:57	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 10:57	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:57	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 10:57	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 10:57	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 10:57	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 10:57	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 10:57	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 10:57	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:57	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 10:57	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 10:57	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 10:57	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 10:57	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 10:57	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 10:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 10:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/30/20 10:57*	*1*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*03/30/20 10:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*		*03/30/20 10:57*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*03/30/20 10:57*	*1*

Lab Sample ID: LCS 680-613128/4
Matrix: Water
Analysis Batch: 613128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	294		ug/L		118	70 - 135
Acrylonitrile	500	554		ug/L		111	80 - 123
Benzene	50.0	55.6		ug/L		111	80 - 120
Bromochloromethane	50.0	55.2		ug/L		110	80 - 120
Bromodichloromethane	50.0	55.7		ug/L		111	80 - 120
Bromoform	50.0	62.0		ug/L		124	74 - 126
Bromomethane	50.0	89.9	*	ug/L		180	62 - 130
2-Butanone (MEK)	250	276		ug/L		110	80 - 131
Carbon disulfide	50.0	52.0		ug/L		104	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613128/4
Matrix: Water
Analysis Batch: 613128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	59.7		ug/L		119	76 - 123
Chlorobenzene	50.0	57.2		ug/L		114	80 - 120
Chloroethane	50.0	58.5		ug/L		117	66 - 135
Chloroform	50.0	54.3		ug/L		109	80 - 120
Chloromethane	50.0	48.8		ug/L		98	69 - 131
cis-1,2-Dichloroethene	50.0	55.9		ug/L		112	80 - 120
cis-1,3-Dichloropropene	50.0	57.7		ug/L		115	80 - 120
Dibromochloromethane	50.0	56.3		ug/L		113	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.5		ug/L		105	71 - 134
1,2-Dibromoethane	50.0	57.1		ug/L		114	80 - 120
Dibromomethane	50.0	56.7		ug/L		113	80 - 120
1,2-Dichlorobenzene	50.0	54.5		ug/L		109	80 - 120
1,4-Dichlorobenzene	50.0	52.1		ug/L		104	80 - 120
1,1-Dichloroethane	50.0	54.5		ug/L		109	80 - 120
1,2-Dichloroethane	50.0	53.8		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	58.9		ug/L		118	76 - 120
1,2-Dichloropropane	50.0	54.4		ug/L		109	80 - 120
1,3-Dichloropropane	50.0	54.3		ug/L		109	80 - 120
Ethylbenzene	50.0	57.3		ug/L		115	80 - 120
2-Hexanone	250	262		ug/L		105	74 - 127
Iodomethane	50.0	59.2		ug/L		118	52 - 142
Methylene Chloride	50.0	49.6		ug/L		99	80 - 120
4-Methyl-2-pentanone (MIBK)	250	264		ug/L		106	76 - 124
Methyl tert-butyl ether	50.0	54.5		ug/L		109	80 - 120
Styrene	50.0	60.0		ug/L		120	80 - 120
1,1,1,2-Tetrachloroethane	50.0	63.6	*	ug/L		127	80 - 121
1,1,2,2-Tetrachloroethane	50.0	56.9		ug/L		114	80 - 120
Tetrachloroethylene	50.0	60.7		ug/L		121	80 - 121
Toluene	50.0	55.7		ug/L		111	80 - 113
trans-1,4-Dichloro-2-butene	50.0	60.4		ug/L		121	68 - 125
trans-1,2-Dichloroethene	50.0	57.0		ug/L		114	80 - 120
trans-1,3-Dichloropropene	50.0	58.7		ug/L		117	80 - 120
1,1,1-Trichloroethane	50.0	57.2		ug/L		114	80 - 120
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	80 - 120
Trichloroethene	50.0	59.3		ug/L		119	80 - 120
Trichlorofluoromethane	50.0	61.4		ug/L		123	60 - 141
1,2,3-Trichloropropane	50.0	55.3		ug/L		111	80 - 123
Vinyl acetate	100	144	*	ug/L		144	67 - 135
Vinyl chloride	50.0	53.4		ug/L		107	71 - 128
Xylenes, Total	100	116		ug/L		116	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*114*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*116*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613128/5
Matrix: Water
Analysis Batch: 613128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	326		ug/L		130	70 - 135	10	30
Acrylonitrile	500	594		ug/L		119	80 - 123	7	20
Benzene	50.0	54.8		ug/L		110	80 - 120	1	20
Bromochloromethane	50.0	53.6		ug/L		107	80 - 120	3	20
Bromodichloromethane	50.0	57.3		ug/L		115	80 - 120	3	20
Bromoform	50.0	65.1	*	ug/L		130	74 - 126	5	20
Bromomethane	50.0	111	* E *1	ug/L		221	62 - 130	21	20
2-Butanone (MEK)	250	291		ug/L		116	80 - 131	5	20
Carbon disulfide	50.0	49.5		ug/L		99	80 - 120	5	20
Carbon tetrachloride	50.0	56.5		ug/L		113	76 - 123	6	20
Chlorobenzene	50.0	57.5		ug/L		115	80 - 120	0	20
Chloroethane	50.0	54.9		ug/L		110	66 - 135	6	20
Chloroform	50.0	54.7		ug/L		109	80 - 120	1	20
Chloromethane	50.0	46.8		ug/L		94	69 - 131	4	30
cis-1,2-Dichloroethene	50.0	56.4		ug/L		113	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	59.7		ug/L		119	80 - 120	4	20
Dibromochloromethane	50.0	59.5		ug/L		119	80 - 121	6	20
1,2-Dibromo-3-Chloropropane	50.0	56.2		ug/L		112	71 - 134	7	20
1,2-Dibromoethane	50.0	60.6	*	ug/L		121	80 - 120	6	20
Dibromomethane	50.0	60.3	*	ug/L		121	80 - 120	6	20
1,2-Dichlorobenzene	50.0	55.9		ug/L		112	80 - 120	3	20
1,4-Dichlorobenzene	50.0	53.4		ug/L		107	80 - 120	2	20
1,1-Dichloroethane	50.0	54.2		ug/L		108	80 - 120	1	20
1,2-Dichloroethane	50.0	56.4		ug/L		113	80 - 120	5	50
1,1-Dichloroethene	50.0	56.8		ug/L		114	76 - 120	4	20
1,2-Dichloropropane	50.0	56.5		ug/L		113	80 - 120	4	20
1,3-Dichloropropane	50.0	58.7		ug/L		117	80 - 120	8	20
Ethylbenzene	50.0	56.5		ug/L		113	80 - 120	1	20
2-Hexanone	250	279		ug/L		112	74 - 127	6	20
Iodomethane	50.0	58.4		ug/L		117	52 - 142	1	30
Methylene Chloride	50.0	51.3		ug/L		103	80 - 120	3	20
4-Methyl-2-pentanone (MIBK)	250	287		ug/L		115	76 - 124	8	20
Methyl tert-butyl ether	50.0	58.9		ug/L		118	80 - 120	8	20
Styrene	50.0	59.6		ug/L		119	80 - 120	1	20
1,1,1,2-Tetrachloroethane	50.0	64.2	*	ug/L		128	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	59.9		ug/L		120	80 - 120	5	20
Tetrachloroethylene	50.0	59.0		ug/L		118	80 - 121	3	20
Toluene	50.0	54.8		ug/L		110	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	64.0	*	ug/L		128	68 - 125	6	30
trans-1,2-Dichloroethene	50.0	55.4		ug/L		111	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	61.7	*	ug/L		123	80 - 120	5	30
1,1,1-Trichloroethane	50.0	56.2		ug/L		112	80 - 120	2	20
1,1,2-Trichloroethane	50.0	58.1		ug/L		116	80 - 120	5	20
Trichloroethene	50.0	58.0		ug/L		116	80 - 120	2	20
Trichlorofluoromethane	50.0	58.0		ug/L		116	60 - 141	6	20
1,2,3-Trichloropropane	50.0	59.9		ug/L		120	80 - 123	8	30
Vinyl acetate	100	152	*	ug/L		152	67 - 135	6	20
Vinyl chloride	50.0	50.0		ug/L		100	71 - 128	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613128/5
Matrix: Water
Analysis Batch: 613128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			100	114		ug/L		114	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*117*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*114*		*73 - 131*
Toluene-d8 (Surr)	*115*		*80 - 120*

Lab Sample ID: MB 680-613134/10
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 10:40	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 10:40	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 10:40	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 10:40	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:40	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 10:40	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:40	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 10:40	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 10:40	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 10:40	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 10:40	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:40	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 10:40	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 10:40	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 10:40	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 10:40	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 10:40	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 10:40	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:40	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 10:40	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 10:40	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 10:40	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 10:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 10:40	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 10:40	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 10:40	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 10:40	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 10:40	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 10:40	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 10:40	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 10:40	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 10:40	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 10:40	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 10:40	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:40	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613134/10
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 10:40	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 10:40	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 10:40	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 10:40	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 10:40	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 10:40	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:40	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 10:40	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 10:40	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 10:40	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 10:40	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 10:40	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 10:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*03/30/20 10:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 10:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*03/30/20 10:40*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 10:40*	*1*

Lab Sample ID: LCS 680-613134/4
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	298		ug/L		119	70 - 135
Acrylonitrile	500	577		ug/L		115	80 - 123
Benzene	50.0	55.3		ug/L		111	80 - 120
Bromochloromethane	50.0	55.9		ug/L		112	80 - 120
Bromodichloromethane	50.0	55.9		ug/L		112	80 - 120
Bromoform	50.0	54.0		ug/L		108	74 - 126
Bromomethane	50.1	54.1		ug/L		108	62 - 130
2-Butanone (MEK)	250	288		ug/L		115	80 - 131
Carbon disulfide	50.0	53.8		ug/L		108	80 - 120
Carbon tetrachloride	50.0	54.4		ug/L		109	76 - 123
Chlorobenzene	50.0	51.0		ug/L		102	80 - 120
Chloroethane	50.0	49.9		ug/L		100	66 - 135
Chloroform	50.0	54.1		ug/L		108	80 - 120
Chloromethane	50.0	52.3		ug/L		105	69 - 131
cis-1,2-Dichloroethene	50.0	56.2		ug/L		112	80 - 120
cis-1,3-Dichloropropene	50.0	57.2		ug/L		114	80 - 120
Dibromochloromethane	50.0	54.9		ug/L		110	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.7		ug/L		107	71 - 134
1,2-Dibromoethane	50.0	56.1		ug/L		112	80 - 120
Dibromomethane	50.0	55.7		ug/L		111	80 - 120
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613134/4
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	53.3		ug/L		107	80 - 120
1,2-Dichloroethane	50.0	54.8		ug/L		110	80 - 120
1,1-Dichloroethene	50.0	55.1		ug/L		110	76 - 120
1,2-Dichloropropane	50.0	55.6		ug/L		111	80 - 120
1,3-Dichloropropane	50.0	56.3		ug/L		113	80 - 120
Ethylbenzene	50.0	52.9		ug/L		106	80 - 120
2-Hexanone	250	298		ug/L		119	74 - 127
Iodomethane	50.0	63.0		ug/L		126	52 - 142
Methylene Chloride	50.0	49.2		ug/L		98	80 - 120
4-Methyl-2-pentanone (MIBK)	250	294		ug/L		117	76 - 124
Methyl tert-butyl ether	50.0	53.5		ug/L		107	80 - 120
Styrene	50.0	55.5		ug/L		111	80 - 120
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	80 - 121
1,1,2,2-Tetrachloroethane	50.0	52.5		ug/L		105	80 - 120
Tetrachloroethylene	50.0	53.4		ug/L		107	80 - 121
Toluene	50.0	54.4		ug/L		109	80 - 113
trans-1,4-Dichloro-2-butene	50.0	56.7		ug/L		113	68 - 125
trans-1,2-Dichloroethene	50.0	55.5		ug/L		111	80 - 120
trans-1,3-Dichloropropene	50.0	58.5		ug/L		117	80 - 120
1,1,1-Trichloroethane	50.0	54.0		ug/L		108	80 - 120
1,1,2-Trichloroethane	50.0	54.6		ug/L		109	80 - 120
Trichloroethene	50.0	55.4		ug/L		111	80 - 120
Trichlorofluoromethane	50.0	55.0		ug/L		110	60 - 141
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	80 - 123
Vinyl acetate	100	132		ug/L		132	67 - 135
Vinyl chloride	50.1	55.1		ug/L		110	71 - 128
Xylenes, Total	100	105		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 680-613134/5
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	301		ug/L		120	70 - 135	1	30
Acrylonitrile	500	574		ug/L		115	80 - 123	1	20
Benzene	50.0	53.9		ug/L		108	80 - 120	3	20
Bromochloromethane	50.0	54.1		ug/L		108	80 - 120	3	20
Bromodichloromethane	50.0	53.4		ug/L		107	80 - 120	4	20
Bromoform	50.0	52.8		ug/L		106	74 - 126	2	20
Bromomethane	50.1	53.8		ug/L		107	62 - 130	1	20
2-Butanone (MEK)	250	284		ug/L		114	80 - 131	1	20
Carbon disulfide	50.0	53.7		ug/L		107	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613134/5
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride			50.0	54.2		ug/L		108	76 - 123	1	20
Chlorobenzene			50.0	50.8		ug/L		102	80 - 120	0	20
Chloroethane			50.0	51.1		ug/L		102	66 - 135	2	20
Chloroform			50.0	52.9		ug/L		106	80 - 120	2	20
Chloromethane			50.0	50.8		ug/L		102	69 - 131	3	30
cis-1,2-Dichloroethene			50.0	55.7		ug/L		111	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	55.0		ug/L		110	80 - 120	4	20
Dibromochloromethane			50.0	52.6		ug/L		105	80 - 121	4	20
1,2-Dibromo-3-Chloropropane			50.0	53.2		ug/L		106	71 - 134	1	20
1,2-Dibromoethane			50.0	54.4		ug/L		109	80 - 120	3	20
Dibromomethane			50.0	53.5		ug/L		107	80 - 120	4	20
1,2-Dichlorobenzene			50.0	50.1		ug/L		100	80 - 120	1	20
1,4-Dichlorobenzene			50.0	48.6		ug/L		97	80 - 120	1	20
1,1-Dichloroethane			50.0	52.7		ug/L		105	80 - 120	1	20
1,2-Dichloroethane			50.0	52.9		ug/L		106	80 - 120	4	50
1,1-Dichloroethene			50.0	55.6		ug/L		111	76 - 120	1	20
1,2-Dichloropropane			50.0	54.2		ug/L		108	80 - 120	3	20
1,3-Dichloropropane			50.0	54.1		ug/L		108	80 - 120	4	20
Ethylbenzene			50.0	53.2		ug/L		106	80 - 120	0	20
2-Hexanone			250	288		ug/L		115	74 - 127	3	20
Iodomethane			50.0	62.3		ug/L		125	52 - 142	1	30
Methylene Chloride			50.0	48.1		ug/L		96	80 - 120	2	20
4-Methyl-2-pentanone (MIBK)			250	286		ug/L		115	76 - 124	3	20
Methyl tert-butyl ether			50.0	52.4		ug/L		105	80 - 120	2	20
Styrene			50.0	54.9		ug/L		110	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	51.8		ug/L		104	80 - 121	0	20
1,1,2,2-Tetrachloroethane			50.0	51.0		ug/L		102	80 - 120	3	20
Tetrachloroethylene			50.0	54.4		ug/L		109	80 - 121	2	20
Toluene			50.0	53.3		ug/L		107	80 - 113	2	20
trans-1,4-Dichloro-2-butene			50.0	54.8		ug/L		110	68 - 125	3	30
trans-1,2-Dichloroethene			50.0	55.4		ug/L		111	80 - 120	0	20
trans-1,3-Dichloropropene			50.0	56.4		ug/L		113	80 - 120	4	30
1,1,1-Trichloroethane			50.0	53.8		ug/L		108	80 - 120	1	20
1,1,2-Trichloroethane			50.0	52.8		ug/L		106	80 - 120	3	20
Trichloroethene			50.0	54.3		ug/L		109	80 - 120	2	20
Trichlorofluoromethane			50.0	56.2		ug/L		112	60 - 141	2	20
1,2,3-Trichloropropane			50.0	51.3		ug/L		103	80 - 123	2	30
Vinyl acetate			100	128		ug/L		128	67 - 135	3	20
Vinyl chloride			50.1	55.6		ug/L		111	71 - 128	1	20
Xylenes, Total			100	106		ug/L		106	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Toluene-d8 (Surr)	*107*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613140/10
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 10:55	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 10:55	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 10:55	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 10:55	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:55	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 10:55	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:55	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 10:55	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 10:55	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 10:55	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 10:55	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:55	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 10:55	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 10:55	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 10:55	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 10:55	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 10:55	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 10:55	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:55	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 10:55	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 10:55	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 10:55	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 10:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 10:55	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 10:55	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 10:55	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 10:55	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 10:55	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 10:55	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 10:55	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 10:55	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 10:55	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 10:55	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 10:55	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:55	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 10:55	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 10:55	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 10:55	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 10:55	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 10:55	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 10:55	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:55	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 10:55	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 10:55	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 10:55	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 10:55	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 10:55	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 10:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613140/10
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/30/20 10:55*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*03/30/20 10:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*03/30/20 10:55*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 10:55*	*1*

Lab Sample ID: LCS 680-613140/4
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	261		ug/L		104	70 - 135
Acrylonitrile	500	522		ug/L		104	80 - 123
Benzene	50.0	53.3		ug/L		107	80 - 120
Bromochloromethane	50.0	54.4		ug/L		109	80 - 120
Bromodichloromethane	50.0	56.1		ug/L		112	80 - 120
Bromoform	50.0	60.0		ug/L		120	74 - 126
Bromomethane	50.0	110	E *	ug/L		221	62 - 130
2-Butanone (MEK)	250	271		ug/L		108	80 - 131
Carbon disulfide	50.0	52.3		ug/L		105	80 - 120
Carbon tetrachloride	50.0	54.2		ug/L		108	76 - 123
Chlorobenzene	50.0	54.0		ug/L		108	80 - 120
Chloroethane	50.0	69.5	*	ug/L		139	66 - 135
Chloroform	50.0	53.9		ug/L		108	80 - 120
Chloromethane	50.0	50.1		ug/L		100	69 - 131
cis-1,2-Dichloroethene	50.0	54.0		ug/L		108	80 - 120
cis-1,3-Dichloropropene	50.0	58.0		ug/L		116	80 - 120
Dibromochloromethane	50.0	58.2		ug/L		116	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.0		ug/L		112	71 - 134
1,2-Dibromoethane	50.0	56.8		ug/L		114	80 - 120
Dibromomethane	50.0	54.2		ug/L		108	80 - 120
1,2-Dichlorobenzene	50.0	54.0		ug/L		108	80 - 120
1,4-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	53.2		ug/L		106	80 - 120
1,2-Dichloroethane	50.0	53.9		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	51.9		ug/L		104	76 - 120
1,2-Dichloropropane	50.0	54.9		ug/L		110	80 - 120
1,3-Dichloropropane	50.0	55.0		ug/L		110	80 - 120
Ethylbenzene	50.0	54.6		ug/L		109	80 - 120
2-Hexanone	250	273		ug/L		109	74 - 127
Iodomethane	50.0	50.4		ug/L		101	52 - 142
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
4-Methyl-2-pentanone (MIBK)	250	271		ug/L		108	76 - 124
Methyl tert-butyl ether	50.0	54.3		ug/L		109	80 - 120
Styrene	50.0	57.2		ug/L		114	80 - 120
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/L		113	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613140/4
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	55.6		ug/L		111	80 - 120
Tetrachloroethylene	50.0	55.4		ug/L		111	80 - 121
Toluene	50.0	54.6		ug/L		109	80 - 113
trans-1,4-Dichloro-2-butene	50.0	58.4		ug/L		117	68 - 125
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 120
trans-1,3-Dichloropropene	50.0	58.5		ug/L		117	80 - 120
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	80 - 120
1,1,2-Trichloroethane	50.0	55.8		ug/L		112	80 - 120
Trichloroethene	50.0	54.4		ug/L		109	80 - 120
Trichlorofluoromethane	50.0	52.5		ug/L		105	60 - 141
1,2,3-Trichloropropane	50.0	53.9		ug/L		108	80 - 123
Vinyl acetate	100	121		ug/L		121	67 - 135
Vinyl chloride	50.0	49.7		ug/L		99	71 - 128
Xylenes, Total	100	110		ug/L		110	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Toluene-d8 (Surr)	*110*		*80 - 120*

Lab Sample ID: LCSD 680-613140/5
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	267		ug/L		107	70 - 135	2	30
Acrylonitrile	500	540		ug/L		108	80 - 123	3	20
Benzene	50.0	55.1		ug/L		110	80 - 120	3	20
Bromochloromethane	50.0	56.1		ug/L		112	80 - 120	3	20
Bromodichloromethane	50.0	58.1		ug/L		116	80 - 120	4	20
Bromoform	50.0	60.1		ug/L		120	74 - 126	0	20
Bromomethane	50.0	117	E *	ug/L		234	62 - 130	6	20
2-Butanone (MEK)	250	283		ug/L		113	80 - 131	5	20
Carbon disulfide	50.0	53.7		ug/L		107	80 - 120	3	20
Carbon tetrachloride	50.0	55.6		ug/L		111	76 - 123	3	20
Chlorobenzene	50.0	55.3		ug/L		111	80 - 120	2	20
Chloroethane	50.0	71.4	*	ug/L		143	66 - 135	3	20
Chloroform	50.0	55.4		ug/L		111	80 - 120	3	20
Chloromethane	50.0	50.6		ug/L		101	69 - 131	1	30
cis-1,2-Dichloroethene	50.0	55.5		ug/L		111	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	59.6		ug/L		119	80 - 120	3	20
Dibromochloromethane	50.0	60.6		ug/L		121	80 - 121	4	20
1,2-Dibromo-3-Chloropropane	50.0	56.4		ug/L		113	71 - 134	1	20
1,2-Dibromoethane	50.0	58.8		ug/L		118	80 - 120	3	20
Dibromomethane	50.0	56.6		ug/L		113	80 - 120	4	20
1,2-Dichlorobenzene	50.0	54.4		ug/L		109	80 - 120	1	20
1,4-Dichlorobenzene	50.0	52.7		ug/L		105	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613140/5
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	55.0		ug/L		110	80 - 120	3	20
1,2-Dichloroethane	50.0	55.8		ug/L		112	80 - 120	3	50
1,1-Dichloroethene	50.0	53.8		ug/L		108	76 - 120	4	20
1,2-Dichloropropane	50.0	56.6		ug/L		113	80 - 120	3	20
1,3-Dichloropropane	50.0	57.0		ug/L		114	80 - 120	4	20
Ethylbenzene	50.0	55.3		ug/L		111	80 - 120	1	20
2-Hexanone	250	282		ug/L		113	74 - 127	3	20
Iodomethane	50.0	51.4		ug/L		103	52 - 142	2	30
Methylene Chloride	50.0	50.9		ug/L		102	80 - 120	4	20
4-Methyl-2-pentanone (MIBK)	250	280		ug/L		112	76 - 124	3	20
Methyl tert-butyl ether	50.0	56.3		ug/L		113	80 - 120	4	20
Styrene	50.0	58.1		ug/L		116	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	57.2		ug/L		114	80 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	55.6		ug/L		111	80 - 120	0	20
Tetrachloroethylene	50.0	56.4		ug/L		113	80 - 121	2	20
Toluene	50.0	56.3		ug/L		113	80 - 113	3	20
trans-1,4-Dichloro-2-butene	50.0	59.1		ug/L		118	68 - 125	1	30
trans-1,2-Dichloroethene	50.0	55.8		ug/L		112	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	60.3	*	ug/L		121	80 - 120	3	30
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	80 - 120	3	20
1,1,2-Trichloroethane	50.0	57.6		ug/L		115	80 - 120	3	20
Trichloroethene	50.0	56.2		ug/L		112	80 - 120	3	20
Trichlorofluoromethane	50.0	53.4		ug/L		107	60 - 141	2	20
1,2,3-Trichloropropane	50.0	54.8		ug/L		110	80 - 123	2	30
Vinyl acetate	100	125		ug/L		125	67 - 135	3	20
Vinyl chloride	50.0	50.4		ug/L		101	71 - 128	1	20
Xylenes, Total	100	112		ug/L		112	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: 680-181793-15 MS
Matrix: Water
Analysis Batch: 613140

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	35	U	1250	1010		ug/L		81	60 - 154
Acrylonitrile	50	U	2500	2100		ug/L		84	72 - 132
Benzene	2.2	U	250	233		ug/L		93	73 - 131
Bromochloromethane	2.3	U	250	222		ug/L		89	77 - 122
Bromodichloromethane	2.2	U	250	229		ug/L		91	77 - 129
Bromoform	2.2	U	250	238		ug/L		95	69 - 135
Bromomethane	13	U * F1	250	403		ug/L		161	20 - 180
2-Butanone (MEK)	17	U	1250	1090		ug/L		87	75 - 133
Carbon disulfide	5.0	U	250	237		ug/L		95	73 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-181793-15 MS
Matrix: Water
Analysis Batch: 613140

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	1.7	U	250	241		ug/L		97	75 - 130
Chlorobenzene	1.3	U	250	235		ug/L		94	80 - 120
Chloroethane	13	U *	250	316		ug/L		126	50 - 151
Chloroform	2.5	U	250	232		ug/L		93	79 - 122
Chloromethane	2.0	U	250	228		ug/L		91	63 - 126
cis-1,2-Dichloroethene	180		250	383		ug/L		83	80 - 122
cis-1,3-Dichloropropene	2.0	U	250	227		ug/L		91	80 - 133
Dibromochloromethane	1.6	U	250	226		ug/L		91	71 - 136
1,2-Dibromo-3-Chloropropane	5.5	U	250	223		ug/L		89	59 - 141
1,2-Dibromoethane	2.2	U	250	220		ug/L		88	77 - 131
Dibromomethane	1.8	U	250	218		ug/L		87	80 - 122
1,2-Dichlorobenzene	1.9	U	250	227		ug/L		91	80 - 120
1,4-Dichlorobenzene	2.3	U	250	224		ug/L		90	80 - 120
1,1-Dichloroethane	1.9	U	250	236		ug/L		95	80 - 120
1,2-Dichloroethane	2.5	U	250	221		ug/L		88	75 - 130
1,1-Dichloroethene	15		250	251		ug/L		95	74 - 125
1,2-Dichloropropane	3.4	U	250	230		ug/L		92	80 - 123
1,3-Dichloropropane	1.7	U	250	220		ug/L		88	78 - 127
Ethylbenzene	1.7	U	250	243		ug/L		97	80 - 120
2-Hexanone	10	U	1250	1100		ug/L		88	70 - 141
Iodomethane	25	U F2	250	166		ug/L		66	15 - 162
Methylene Chloride	13	U	250	207		ug/L		83	76 - 129
4-Methyl-2-pentanone (MIBK)	11	U	1250	1100		ug/L		88	75 - 135
Methyl tert-butyl ether	1.5	U	250	217		ug/L		87	74 - 135
Styrene	1.4	U	250	240		ug/L		96	80 - 122
1,1,1,2-Tetrachloroethane	1.9	U	250	242		ug/L		97	80 - 120
1,1,2,2-Tetrachloroethane	7.7		250	239		ug/L		93	72 - 128
Tetrachloroethylene	12		250	239		ug/L		91	77 - 123
Toluene	2.4	U	250	231		ug/L		92	80 - 122
trans-1,4-Dichloro-2-butene	2.6	U	250	234		ug/L		94	55 - 147
trans-1,2-Dichloroethene	15		250	252		ug/L		95	78 - 123
trans-1,3-Dichloropropene	2.1	U *	250	224		ug/L		90	74 - 140
1,1,1-Trichloroethane	1.9	U	250	238		ug/L		95	74 - 128
1,1,2-Trichloroethane	1.7	U	250	222		ug/L		89	79 - 125
Trichloroethene	1500	E F2	250	1140	E 4	ug/L		-132	80 - 123
Trichlorofluoromethane	2.1	U	250	245		ug/L		98	58 - 145
1,2,3-Trichloropropane	2.0	U	250	220		ug/L		88	70 - 132
Vinyl acetate	4.1	U	500	501		ug/L		100	15 - 190
Vinyl chloride	30		250	263		ug/L		93	68 - 132
Xylenes, Total	1.2	U	500	476		ug/L		95	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*87*		*73 - 131*
Toluene-d8 (Surr)	*92*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-181793-15 MSD
Client Sample ID: CWM-183-MW13
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 613140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	35	U	1250	1170		ug/L		93	60 - 154	14	30
Acrylonitrile	50	U	2500	2400		ug/L		96	72 - 132	13	20
Benzene	2.2	U	250	258		ug/L		103	73 - 131	10	20
Bromochloromethane	2.3	U	250	249		ug/L		99	77 - 122	11	20
Bromodichloromethane	2.2	U	250	256		ug/L		102	77 - 129	11	20
Bromoform	2.2	U	250	273		ug/L		109	69 - 135	14	20
Bromomethane	13	U * F1	250	482	F1	ug/L		193	20 - 180	18	20
2-Butanone (MEK)	17	U	1250	1250		ug/L		100	75 - 133	14	20
Carbon disulfide	5.0	U	250	266		ug/L		106	73 - 127	11	20
Carbon tetrachloride	1.7	U	250	267		ug/L		107	75 - 130	10	20
Chlorobenzene	1.3	U	250	261		ug/L		104	80 - 120	11	20
Chloroethane	13	U *	250	352		ug/L		141	50 - 151	11	20
Chloroform	2.5	U	250	258		ug/L		103	79 - 122	11	20
Chloromethane	2.0	U	250	253		ug/L		101	63 - 126	11	30
cis-1,2-Dichloroethene	180		250	433		ug/L		103	80 - 122	12	20
cis-1,3-Dichloropropene	2.0	U	250	257		ug/L		103	80 - 133	13	20
Dibromochloromethane	1.6	U	250	256		ug/L		102	71 - 136	12	20
1,2-Dibromo-3-Chloropropane	5.5	U	250	273		ug/L		109	59 - 141	20	20
1,2-Dibromoethane	2.2	U	250	252		ug/L		101	77 - 131	14	20
Dibromomethane	1.8	U	250	244		ug/L		98	80 - 122	11	20
1,2-Dichlorobenzene	1.9	U	250	257		ug/L		103	80 - 120	13	20
1,4-Dichlorobenzene	2.3	U	250	250		ug/L		100	80 - 120	11	20
1,1-Dichloroethane	1.9	U	250	260		ug/L		104	80 - 120	9	20
1,2-Dichloroethane	2.5	U	250	247		ug/L		99	75 - 130	11	50
1,1-Dichloroethene	15		250	285		ug/L		108	74 - 125	13	20
1,2-Dichloropropane	3.4	U	250	256		ug/L		102	80 - 123	11	20
1,3-Dichloropropane	1.7	U	250	249		ug/L		99	78 - 127	12	20
Ethylbenzene	1.7	U	250	265		ug/L		106	80 - 120	9	20
2-Hexanone	10	U	1250	1270		ug/L		102	70 - 141	14	20
Iodomethane	25	U F2	250	245	F2	ug/L		98	15 - 162	38	30
Methylene Chloride	13	U	250	230		ug/L		92	76 - 129	10	20
4-Methyl-2-pentanone (MIBK)	11	U	1250	1270		ug/L		101	75 - 135	14	20
Methyl tert-butyl ether	1.5	U	250	247		ug/L		99	74 - 135	13	20
Styrene	1.4	U	250	268		ug/L		107	80 - 122	11	20
1,1,1,2-Tetrachloroethane	1.9	U	250	267		ug/L		107	80 - 120	10	20
1,1,2,2-Tetrachloroethane	7.7		250	279		ug/L		108	72 - 128	15	20
Tetrachloroethylene	12		250	268		ug/L		102	77 - 123	11	20
Toluene	2.4	U	250	258		ug/L		103	80 - 122	11	20
trans-1,4-Dichloro-2-butene	2.6	U	250	271		ug/L		109	55 - 147	15	30
trans-1,2-Dichloroethene	15		250	285		ug/L		108	78 - 123	12	20
trans-1,3-Dichloropropene	2.1	U *	250	257		ug/L		103	74 - 140	14	30
1,1,1-Trichloroethane	1.9	U	250	267		ug/L		107	74 - 128	11	20
1,1,2-Trichloroethane	1.7	U	250	251		ug/L		101	79 - 125	13	20
Trichloroethene	1500	E F2	250	2390	E 4 F2	ug/L		370	80 - 123	71	20
Trichlorofluoromethane	2.1	U	250	275		ug/L		110	58 - 145	11	20
1,2,3-Trichloropropane	2.0	U	250	257		ug/L		103	70 - 132	15	30
Vinyl acetate	4.1	U	500	570		ug/L		114	15 - 190	13	20
Vinyl chloride	30		250	283		ug/L		101	68 - 132	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-181793-15 MSD
Matrix: Water
Analysis Batch: 613140

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	1.2	U	500	527		ug/L		105	80 - 120	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 680-613146/9
Matrix: Water
Analysis Batch: 613146

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/30/20 10:32	1
Acrylonitrile	10	U	20	10	ug/L			03/30/20 10:32	1
Benzene	0.43	U	1.0	0.43	ug/L			03/30/20 10:32	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/30/20 10:32	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:32	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/30/20 10:32	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:32	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/30/20 10:32	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/30/20 10:32	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/30/20 10:32	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/30/20 10:32	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:32	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 10:32	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 10:32	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 10:32	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/30/20 10:32	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/30/20 10:32	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/30/20 10:32	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/30/20 10:32	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/30/20 10:32	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/30/20 10:32	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/30/20 10:32	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/30/20 10:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 10:32	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 10:32	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/30/20 10:32	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/30/20 10:32	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/30/20 10:32	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/30/20 10:32	1
Iodomethane	5.0	U	10	5.0	ug/L			03/30/20 10:32	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 10:32	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/30/20 10:32	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/30/20 10:32	1
Styrene	0.27	U	1.0	0.27	ug/L			03/30/20 10:32	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613146/9
Matrix: Water
Analysis Batch: 613146

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 10:32	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 10:32	1
Toluene	0.48	U	1.0	0.48	ug/L			03/30/20 10:32	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/30/20 10:32	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 10:32	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/30/20 10:32	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/30/20 10:32	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 10:32	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 10:32	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/30/20 10:32	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/30/20 10:32	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/30/20 10:32	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 10:32	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/30/20 10:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/30/20 10:32*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*03/30/20 10:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*		*03/30/20 10:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/30/20 10:32*	*1*

Lab Sample ID: LCS 680-613146/3
Matrix: Water
Analysis Batch: 613146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	284		ug/L		113	70 - 135
Acrylonitrile	500	570		ug/L		114	80 - 123
Benzene	50.0	57.3		ug/L		115	80 - 120
Bromochloromethane	50.0	56.8		ug/L		114	80 - 120
Bromodichloromethane	50.0	57.6		ug/L		115	80 - 120
Bromoform	50.0	53.0		ug/L		106	74 - 126
Bromomethane	50.0	67.7	*	ug/L		135	62 - 130
2-Butanone (MEK)	250	280		ug/L		112	80 - 131
Carbon disulfide	50.0	57.2		ug/L		114	80 - 120
Carbon tetrachloride	50.0	55.8		ug/L		112	76 - 123
Chlorobenzene	50.0	54.4		ug/L		109	80 - 120
Chloroethane	50.0	62.6		ug/L		125	66 - 135
Chloroform	50.0	56.6		ug/L		113	80 - 120
Chloromethane	50.0	55.6		ug/L		111	69 - 131
cis-1,2-Dichloroethene	50.0	61.0	*	ug/L		122	80 - 120
cis-1,3-Dichloropropene	50.0	61.5	*	ug/L		123	80 - 120
Dibromochloromethane	50.0	55.5		ug/L		111	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.9		ug/L		106	71 - 134
1,2-Dibromoethane	50.0	57.6		ug/L		115	80 - 120
Dibromomethane	50.0	56.7		ug/L		113	80 - 120
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613146/3
Matrix: Water
Analysis Batch: 613146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	59.1		ug/L		118	80 - 120
1,2-Dichloroethane	50.0	60.1		ug/L		120	80 - 120
1,1-Dichloroethene	50.0	59.4		ug/L		119	76 - 120
1,2-Dichloropropane	50.0	59.4		ug/L		119	80 - 120
1,3-Dichloropropane	50.0	58.2		ug/L		116	80 - 120
Ethylbenzene	50.0	54.3		ug/L		109	80 - 120
2-Hexanone	250	285		ug/L		114	74 - 127
Iodomethane	50.0	61.4		ug/L		123	52 - 142
Methylene Chloride	50.0	54.0		ug/L		108	80 - 120
4-Methyl-2-pentanone (MIBK)	250	287		ug/L		115	76 - 124
Methyl tert-butyl ether	50.0	59.3		ug/L		119	80 - 120
Styrene	50.0	53.3		ug/L		107	80 - 120
1,1,1,2-Tetrachloroethane	50.0	55.3		ug/L		111	80 - 121
1,1,2,2-Tetrachloroethane	50.0	56.9		ug/L		114	80 - 120
Tetrachloroethylene	50.0	55.9		ug/L		112	80 - 121
Toluene	50.0	56.5		ug/L		113	80 - 113
trans-1,4-Dichloro-2-butene	50.0	60.3		ug/L		121	68 - 125
trans-1,2-Dichloroethene	50.0	58.7		ug/L		117	80 - 120
trans-1,3-Dichloropropene	50.0	60.9	*	ug/L		122	80 - 120
1,1,1-Trichloroethane	50.0	56.8		ug/L		114	80 - 120
1,1,2-Trichloroethane	50.0	57.8		ug/L		116	80 - 120
Trichloroethene	50.0	54.2		ug/L		108	80 - 120
Trichlorofluoromethane	50.0	59.8		ug/L		120	60 - 141
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	80 - 123
Vinyl acetate	100	162	*	ug/L		162	67 - 135
Vinyl chloride	50.0	60.1		ug/L		120	71 - 128
Xylenes, Total	100	108		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*115*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 131*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: LCSD 680-613146/4
Matrix: Water
Analysis Batch: 613146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	268		ug/L		107	70 - 135	6	30
Acrylonitrile	500	542		ug/L		108	80 - 123	5	20
Benzene	50.0	54.1		ug/L		108	80 - 120	6	20
Bromochloromethane	50.0	54.1		ug/L		108	80 - 120	5	20
Bromodichloromethane	50.0	54.7		ug/L		109	80 - 120	5	20
Bromoform	50.0	51.5		ug/L		103	74 - 126	3	20
Bromomethane	50.0	68.3	*	ug/L		137	62 - 130	1	20
2-Butanone (MEK)	250	263		ug/L		105	80 - 131	6	20
Carbon disulfide	50.0	55.6		ug/L		111	80 - 120	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613146/4
Matrix: Water
Analysis Batch: 613146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride			50.0	54.4		ug/L		109	76 - 123	3	20
Chlorobenzene			50.0	55.0		ug/L		110	80 - 120	1	20
Chloroethane			50.0	59.8		ug/L		120	66 - 135	5	20
Chloroform			50.0	54.5		ug/L		109	80 - 120	4	20
Chloromethane			50.0	54.3		ug/L		109	69 - 131	2	30
cis-1,2-Dichloroethene			50.0	59.2		ug/L		118	80 - 120	3	20
cis-1,3-Dichloropropene			50.0	58.8		ug/L		118	80 - 120	5	20
Dibromochloromethane			50.0	51.1		ug/L		102	80 - 121	8	20
1,2-Dibromo-3-Chloropropane			50.0	53.4		ug/L		107	71 - 134	1	20
1,2-Dibromoethane			50.0	54.4		ug/L		109	80 - 120	6	20
Dibromomethane			50.0	53.7		ug/L		107	80 - 120	6	20
1,2-Dichlorobenzene			50.0	51.9		ug/L		104	80 - 120	1	20
1,4-Dichlorobenzene			50.0	51.1		ug/L		102	80 - 120	1	20
1,1-Dichloroethane			50.0	56.4		ug/L		113	80 - 120	5	20
1,2-Dichloroethane			50.0	56.0		ug/L		112	80 - 120	7	50
1,1-Dichloroethene			50.0	60.6	*	ug/L		121	76 - 120	2	20
1,2-Dichloropropane			50.0	55.8		ug/L		112	80 - 120	6	20
1,3-Dichloropropane			50.0	54.7		ug/L		109	80 - 120	6	20
Ethylbenzene			50.0	54.9		ug/L		110	80 - 120	1	20
2-Hexanone			250	269		ug/L		107	74 - 127	6	20
Iodomethane			50.0	59.9		ug/L		120	52 - 142	3	30
Methylene Chloride			50.0	51.8		ug/L		104	80 - 120	4	20
4-Methyl-2-pentanone (MIBK)			250	271		ug/L		108	76 - 124	6	20
Methyl tert-butyl ether			50.0	55.6		ug/L		111	80 - 120	6	20
Styrene			50.0	53.6		ug/L		107	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	54.8		ug/L		110	80 - 121	1	20
1,1,2,2-Tetrachloroethane			50.0	56.3		ug/L		113	80 - 120	1	20
Tetrachloroethylene			50.0	54.8		ug/L		110	80 - 121	2	20
Toluene			50.0	54.7		ug/L		109	80 - 113	3	20
trans-1,4-Dichloro-2-butene			50.0	59.2		ug/L		118	68 - 125	2	30
trans-1,2-Dichloroethene			50.0	57.5		ug/L		115	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	57.5		ug/L		115	80 - 120	6	30
1,1,1-Trichloroethane			50.0	55.3		ug/L		111	80 - 120	3	20
1,1,2-Trichloroethane			50.0	54.6		ug/L		109	80 - 120	6	20
Trichloroethene			50.0	53.3		ug/L		107	80 - 120	2	20
Trichlorofluoromethane			50.0	60.1		ug/L		120	60 - 141	1	20
1,2,3-Trichloropropane			50.0	52.7		ug/L		105	80 - 123	1	30
Vinyl acetate			100	151	*	ug/L		151	67 - 135	7	20
Vinyl chloride			50.0	60.0		ug/L		120	71 - 128	0	20
Xylenes, Total			100	109		ug/L		109	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 131*
Toluene-d8 (Surr)	*109*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613323/10
Matrix: Water
Analysis Batch: 613323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/31/20 12:07	1
Acrylonitrile	10	U	20	10	ug/L			03/31/20 12:07	1
Benzene	0.43	U	1.0	0.43	ug/L			03/31/20 12:07	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/31/20 12:07	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/31/20 12:07	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/31/20 12:07	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/31/20 12:07	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/31/20 12:07	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/31/20 12:07	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/31/20 12:07	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/31/20 12:07	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/31/20 12:07	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 12:07	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/31/20 12:07	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/31/20 12:07	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/31/20 12:07	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/31/20 12:07	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/31/20 12:07	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/31/20 12:07	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/31/20 12:07	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/31/20 12:07	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/31/20 12:07	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/31/20 12:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/31/20 12:07	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/31/20 12:07	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/31/20 12:07	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/31/20 12:07	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/31/20 12:07	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/31/20 12:07	1
Iodomethane	5.0	U	10	5.0	ug/L			03/31/20 12:07	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 12:07	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/31/20 12:07	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/31/20 12:07	1
Styrene	0.27	U	1.0	0.27	ug/L			03/31/20 12:07	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 12:07	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/31/20 12:07	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/31/20 12:07	1
Toluene	0.48	U	1.0	0.48	ug/L			03/31/20 12:07	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/31/20 12:07	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/31/20 12:07	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/31/20 12:07	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 12:07	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/31/20 12:07	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/31/20 12:07	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/31/20 12:07	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/31/20 12:07	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/31/20 12:07	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/31/20 12:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613323/10
Matrix: Water
Analysis Batch: 613323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/31/20 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/31/20 12:07*	*1*
Dibromofluoromethane (Surr)	*120*		*80 - 122*		*03/31/20 12:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*03/31/20 12:07*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/31/20 12:07*	*1*

Lab Sample ID: LCS 680-613323/4
Matrix: Water
Analysis Batch: 613323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	298		ug/L		119	70 - 135
Acrylonitrile	500	542		ug/L		108	80 - 123
Benzene	50.0	55.6		ug/L		111	80 - 120
Bromochloromethane	50.0	54.2		ug/L		108	80 - 120
Bromodichloromethane	50.0	55.4		ug/L		111	80 - 120
Bromoform	50.0	58.9		ug/L		118	74 - 126
Bromomethane	50.0	84.8	*	ug/L		170	62 - 130
2-Butanone (MEK)	250	267		ug/L		107	80 - 131
Carbon disulfide	50.0	54.3		ug/L		109	80 - 120
Carbon tetrachloride	50.0	60.4		ug/L		121	76 - 123
Chlorobenzene	50.0	55.3		ug/L		111	80 - 120
Chloroethane	50.0	60.5		ug/L		121	66 - 135
Chloroform	50.0	54.8		ug/L		110	80 - 120
Chloromethane	50.0	50.4		ug/L		101	69 - 131
cis-1,2-Dichloroethene	50.0	56.8		ug/L		114	80 - 120
cis-1,3-Dichloropropene	50.0	57.5		ug/L		115	80 - 120
Dibromochloromethane	50.0	56.3		ug/L		113	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	71 - 134
1,2-Dibromoethane	50.0	55.9		ug/L		112	80 - 120
Dibromomethane	50.0	56.1		ug/L		112	80 - 120
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	80 - 120
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	80 - 120
1,1-Dichloroethane	50.0	54.7		ug/L		109	80 - 120
1,2-Dichloroethane	50.0	53.8		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	55.8		ug/L		112	76 - 120
1,2-Dichloropropane	50.0	54.5		ug/L		109	80 - 120
1,3-Dichloropropane	50.0	54.3		ug/L		109	80 - 120
Ethylbenzene	50.0	55.3		ug/L		111	80 - 120
2-Hexanone	250	260		ug/L		104	74 - 127
Iodomethane	50.0	51.6		ug/L		103	52 - 142
Methylene Chloride	50.0	51.2		ug/L		102	80 - 120
4-Methyl-2-pentanone (MIBK)	250	262		ug/L		105	76 - 124
Methyl tert-butyl ether	50.0	54.4		ug/L		109	80 - 120
Styrene	50.0	57.9		ug/L		116	80 - 120
1,1,1,2-Tetrachloroethane	50.0	60.3		ug/L		121	80 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613323/4
Matrix: Water
Analysis Batch: 613323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	56.2		ug/L		112	80 - 120
Tetrachloroethylene	50.0	61.0	*	ug/L		122	80 - 121
Toluene	50.0	55.5		ug/L		111	80 - 113
trans-1,4-Dichloro-2-butene	50.0	56.0		ug/L		112	68 - 125
trans-1,2-Dichloroethene	50.0	58.0		ug/L		116	80 - 120
trans-1,3-Dichloropropene	50.0	58.3		ug/L		117	80 - 120
1,1,1-Trichloroethane	50.0	58.3		ug/L		117	80 - 120
1,1,2-Trichloroethane	50.0	54.9		ug/L		110	80 - 120
Trichloroethene	50.0	59.9		ug/L		120	80 - 120
Trichlorofluoromethane	50.0	63.1		ug/L		126	60 - 141
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	80 - 123
Vinyl acetate	100	137	*	ug/L		137	67 - 135
Vinyl chloride	50.0	55.2		ug/L		110	71 - 128
Xylenes, Total	100	113		ug/L		113	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*116*		*80 - 120*

Lab Sample ID: LCSD 680-613323/5
Matrix: Water
Analysis Batch: 613323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	333		ug/L		133	70 - 135	11	30
Acrylonitrile	500	580		ug/L		116	80 - 123	7	20
Benzene	50.0	56.1		ug/L		112	80 - 120	1	20
Bromochloromethane	50.0	54.5		ug/L		109	80 - 120	1	20
Bromodichloromethane	50.0	56.3		ug/L		113	80 - 120	2	20
Bromoform	50.0	61.4		ug/L		123	74 - 126	4	20
Bromomethane	50.0	78.0	*	ug/L		156	62 - 130	8	20
2-Butanone (MEK)	250	291		ug/L		116	80 - 131	9	20
Carbon disulfide	50.0	52.9		ug/L		106	80 - 120	3	20
Carbon tetrachloride	50.0	58.4		ug/L		117	76 - 123	3	20
Chlorobenzene	50.0	55.9		ug/L		112	80 - 120	1	20
Chloroethane	50.0	58.8		ug/L		118	66 - 135	3	20
Chloroform	50.0	55.4		ug/L		111	80 - 120	1	20
Chloromethane	50.0	49.2		ug/L		98	69 - 131	2	30
cis-1,2-Dichloroethene	50.0	56.9		ug/L		114	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	58.8		ug/L		118	80 - 120	2	20
Dibromochloromethane	50.0	58.9		ug/L		118	80 - 121	5	20
1,2-Dibromo-3-Chloropropane	50.0	51.3		ug/L		103	71 - 134	4	20
1,2-Dibromoethane	50.0	59.2		ug/L		118	80 - 120	6	20
Dibromomethane	50.0	60.3	*	ug/L		121	80 - 120	7	20
1,2-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120	2	20
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	80 - 120	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613323/5
Matrix: Water
Analysis Batch: 613323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	55.6		ug/L		111	80 - 120	2	20
1,2-Dichloroethane	50.0	55.8		ug/L		112	80 - 120	4	50
1,1-Dichloroethene	50.0	56.1		ug/L		112	76 - 120	0	20
1,2-Dichloropropane	50.0	56.0		ug/L		112	80 - 120	3	20
1,3-Dichloropropane	50.0	56.5		ug/L		113	80 - 120	4	20
Ethylbenzene	50.0	55.8		ug/L		112	80 - 120	1	20
2-Hexanone	250	277		ug/L		111	74 - 127	7	20
Iodomethane	50.0	55.2		ug/L		110	52 - 142	7	30
Methylene Chloride	50.0	52.8		ug/L		106	80 - 120	3	20
4-Methyl-2-pentanone (MIBK)	250	275		ug/L		110	76 - 124	5	20
Methyl tert-butyl ether	50.0	57.4		ug/L		115	80 - 120	5	20
Styrene	50.0	59.3		ug/L		119	80 - 120	2	20
1,1,1,2-Tetrachloroethane	50.0	61.4	*	ug/L		123	80 - 121	2	20
1,1,2,2-Tetrachloroethane	50.0	57.5		ug/L		115	80 - 120	2	20
Tetrachloroethylene	50.0	60.1		ug/L		120	80 - 121	1	20
Toluene	50.0	55.4		ug/L		111	80 - 113	0	20
trans-1,4-Dichloro-2-butene	50.0	58.6		ug/L		117	68 - 125	5	30
trans-1,2-Dichloroethene	50.0	56.1		ug/L		112	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	59.3		ug/L		119	80 - 120	2	30
1,1,1-Trichloroethane	50.0	57.2		ug/L		114	80 - 120	2	20
1,1,2-Trichloroethane	50.0	57.1		ug/L		114	80 - 120	4	20
Trichloroethene	50.0	58.3		ug/L		117	80 - 120	3	20
Trichlorofluoromethane	50.0	60.9		ug/L		122	60 - 141	3	20
1,2,3-Trichloropropane	50.0	56.5		ug/L		113	80 - 123	6	30
Vinyl acetate	100	144	*	ug/L		144	67 - 135	5	20
Vinyl chloride	50.0	53.4		ug/L		107	71 - 128	3	20
Xylenes, Total	100	114		ug/L		114	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*117*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*114*		*73 - 131*
Toluene-d8 (Surr)	*117*		*80 - 120*

Lab Sample ID: MB 680-613335/10
Matrix: Water
Analysis Batch: 613335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.0	U	10	7.0	ug/L			03/31/20 11:50	1
Acrylonitrile	10	U	20	10	ug/L			03/31/20 11:50	1
Benzene	0.43	U	1.0	0.43	ug/L			03/31/20 11:50	1
Bromochloromethane	0.45	U	1.0	0.45	ug/L			03/31/20 11:50	1
Bromodichloromethane	0.44	U	1.0	0.44	ug/L			03/31/20 11:50	1
Bromoform	0.43	U	1.0	0.43	ug/L			03/31/20 11:50	1
Bromomethane	2.5	U	5.0	2.5	ug/L			03/31/20 11:50	1
2-Butanone (MEK)	3.4	U	10	3.4	ug/L			03/31/20 11:50	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			03/31/20 11:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613335/10
Matrix: Water
Analysis Batch: 613335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			03/31/20 11:50	1
Chlorobenzene	0.26	U	1.0	0.26	ug/L			03/31/20 11:50	1
Chloroethane	2.5	U	5.0	2.5	ug/L			03/31/20 11:50	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 11:50	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/31/20 11:50	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/31/20 11:50	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	ug/L			03/31/20 11:50	1
Dibromochloromethane	0.32	U	1.0	0.32	ug/L			03/31/20 11:50	1
1,2-Dibromo-3-Chloropropane	1.1	U	5.0	1.1	ug/L			03/31/20 11:50	1
1,2-Dibromoethane	0.44	U	1.0	0.44	ug/L			03/31/20 11:50	1
Dibromomethane	0.35	U	1.0	0.35	ug/L			03/31/20 11:50	1
1,2-Dichlorobenzene	0.37	U	1.0	0.37	ug/L			03/31/20 11:50	1
1,4-Dichlorobenzene	0.46	U	1.0	0.46	ug/L			03/31/20 11:50	1
1,1-Dichloroethane	0.38	U	1.0	0.38	ug/L			03/31/20 11:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/31/20 11:50	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/31/20 11:50	1
1,2-Dichloropropane	0.67	U	1.0	0.67	ug/L			03/31/20 11:50	1
1,3-Dichloropropane	0.34	U	1.0	0.34	ug/L			03/31/20 11:50	1
Ethylbenzene	0.33	U	1.0	0.33	ug/L			03/31/20 11:50	1
2-Hexanone	2.0	U	10	2.0	ug/L			03/31/20 11:50	1
Iodomethane	5.0	U	10	5.0	ug/L			03/31/20 11:50	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 11:50	1
4-Methyl-2-pentanone (MIBK)	2.1	U	10	2.1	ug/L			03/31/20 11:50	1
Methyl tert-butyl ether	0.30	U	10	0.30	ug/L			03/31/20 11:50	1
Styrene	0.27	U	1.0	0.27	ug/L			03/31/20 11:50	1
1,1,1,2-Tetrachloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 11:50	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/31/20 11:50	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/31/20 11:50	1
Toluene	0.48	U	1.0	0.48	ug/L			03/31/20 11:50	1
trans-1,4-Dichloro-2-butene	0.51	U	2.0	0.51	ug/L			03/31/20 11:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/31/20 11:50	1
trans-1,3-Dichloropropene	0.42	U	1.0	0.42	ug/L			03/31/20 11:50	1
1,1,1-Trichloroethane	0.37	U	1.0	0.37	ug/L			03/31/20 11:50	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/31/20 11:50	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/31/20 11:50	1
Trichlorofluoromethane	0.42	U	1.0	0.42	ug/L			03/31/20 11:50	1
1,2,3-Trichloropropane	0.39	U	1.0	0.39	ug/L			03/31/20 11:50	1
Vinyl acetate	0.81	U	2.0	0.81	ug/L			03/31/20 11:50	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/31/20 11:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			03/31/20 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/31/20 11:50*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 122*		*03/31/20 11:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*03/31/20 11:50*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/31/20 11:50*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613335/4
Matrix: Water
Analysis Batch: 613335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	273		ug/L		109	70 - 135
Acrylonitrile	500	542		ug/L		108	80 - 123
Benzene	50.0	54.1		ug/L		108	80 - 120
Bromochloromethane	50.0	55.4		ug/L		111	80 - 120
Bromodichloromethane	50.0	56.5		ug/L		113	80 - 120
Bromoform	50.0	57.3		ug/L		115	74 - 126
Bromomethane	50.1	115	E *	ug/L		229	62 - 130
2-Butanone (MEK)	250	280		ug/L		112	80 - 131
Carbon disulfide	50.0	52.9		ug/L		106	80 - 120
Carbon tetrachloride	50.0	53.2		ug/L		106	76 - 123
Chlorobenzene	50.0	52.2		ug/L		104	80 - 120
Chloroethane	50.0	71.5	*	ug/L		143	66 - 135
Chloroform	50.0	54.5		ug/L		109	80 - 120
Chloromethane	50.0	52.9		ug/L		106	69 - 131
cis-1,2-Dichloroethene	50.0	54.9		ug/L		110	80 - 120
cis-1,3-Dichloropropene	50.0	58.3		ug/L		117	80 - 120
Dibromochloromethane	50.0	58.8		ug/L		118	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.6		ug/L		107	71 - 134
1,2-Dibromoethane	50.0	58.0		ug/L		116	80 - 120
Dibromomethane	50.0	55.3		ug/L		111	80 - 120
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	80 - 120
1,1-Dichloroethane	50.0	54.1		ug/L		108	80 - 120
1,2-Dichloroethane	50.0	55.1		ug/L		110	80 - 120
1,1-Dichloroethene	50.0	52.2		ug/L		104	76 - 120
1,2-Dichloropropane	50.0	55.5		ug/L		111	80 - 120
1,3-Dichloropropane	50.0	56.4		ug/L		113	80 - 120
Ethylbenzene	50.0	51.7		ug/L		103	80 - 120
2-Hexanone	250	283		ug/L		113	74 - 127
Iodomethane	50.0	50.9		ug/L		102	52 - 142
Methylene Chloride	50.0	51.4		ug/L		103	80 - 120
4-Methyl-2-pentanone (MIBK)	250	282		ug/L		113	76 - 124
Methyl tert-butyl ether	50.0	55.6		ug/L		111	80 - 120
Styrene	50.0	55.3		ug/L		111	80 - 120
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/L		108	80 - 121
1,1,2,2-Tetrachloroethane	50.0	55.2		ug/L		110	80 - 120
Tetrachloroethylene	50.0	54.3		ug/L		109	80 - 121
Toluene	50.0	54.8		ug/L		110	80 - 113
trans-1,4-Dichloro-2-butene	50.0	58.1		ug/L		116	68 - 125
trans-1,2-Dichloroethene	50.0	54.2		ug/L		108	80 - 120
trans-1,3-Dichloropropene	50.0	59.0		ug/L		118	80 - 120
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	57.2		ug/L		114	80 - 120
Trichloroethene	50.0	53.3		ug/L		107	80 - 120
Trichlorofluoromethane	50.0	51.5		ug/L		103	60 - 141
1,2,3-Trichloropropane	50.0	53.3		ug/L		107	80 - 123
Vinyl acetate	100	123		ug/L		123	67 - 135
Vinyl chloride	50.1	51.0		ug/L		102	71 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613335/4
Matrix: Water
Analysis Batch: 613335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			100	105		ug/L		105	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*112*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*
Toluene-d8 (Surr)	*110*		*80 - 120*

Lab Sample ID: LCSD 680-613335/6
Matrix: Water
Analysis Batch: 613335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	266		ug/L		106	70 - 135	3	30
Acrylonitrile			500	528		ug/L		106	80 - 123	3	20
Benzene			50.0	54.7		ug/L		109	80 - 120	1	20
Bromochloromethane			50.0	54.9		ug/L		110	80 - 120	1	20
Bromodichloromethane			50.0	55.9		ug/L		112	80 - 120	1	20
Bromoform			50.0	57.1		ug/L		114	74 - 126	0	20
Bromomethane			50.1	119	E *	ug/L		238	62 - 130	4	20
2-Butanone (MEK)			250	274		ug/L		110	80 - 131	2	20
Carbon disulfide			50.0	54.4		ug/L		109	80 - 120	3	20
Carbon tetrachloride			50.0	55.2		ug/L		110	76 - 123	4	20
Chlorobenzene			50.0	52.9		ug/L		106	80 - 120	1	20
Chloroethane			50.0	72.0	*	ug/L		144	66 - 135	1	20
Chloroform			50.0	54.8		ug/L		110	80 - 120	1	20
Chloromethane			50.0	53.1		ug/L		106	69 - 131	0	30
cis-1,2-Dichloroethene			50.0	54.6		ug/L		109	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	57.7		ug/L		115	80 - 120	1	20
Dibromochloromethane			50.0	58.5		ug/L		117	80 - 121	1	20
1,2-Dibromo-3-Chloropropane			50.0	54.3		ug/L		109	71 - 134	1	20
1,2-Dibromoethane			50.0	56.6		ug/L		113	80 - 120	2	20
Dibromomethane			50.0	54.4		ug/L		109	80 - 120	2	20
1,2-Dichlorobenzene			50.0	51.5		ug/L		103	80 - 120	0	20
1,4-Dichlorobenzene			50.0	50.5		ug/L		101	80 - 120	2	20
1,1-Dichloroethane			50.0	54.6		ug/L		109	80 - 120	1	20
1,2-Dichloroethane			50.0	54.2		ug/L		108	80 - 120	2	50
1,1-Dichloroethene			50.0	54.3		ug/L		109	76 - 120	4	20
1,2-Dichloropropane			50.0	55.6		ug/L		111	80 - 120	0	20
1,3-Dichloropropane			50.0	55.1		ug/L		110	80 - 120	2	20
Ethylbenzene			50.0	53.6		ug/L		107	80 - 120	4	20
2-Hexanone			250	277		ug/L		111	74 - 127	2	20
Iodomethane			50.0	51.5		ug/L		103	52 - 142	1	30
Methylene Chloride			50.0	50.9		ug/L		102	80 - 120	1	20
4-Methyl-2-pentanone (MIBK)			250	274		ug/L		110	76 - 124	3	20
Methyl tert-butyl ether			50.0	54.4		ug/L		109	80 - 120	2	20
Styrene			50.0	55.9		ug/L		112	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	54.6		ug/L		109	80 - 121	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613335/6
Matrix: Water
Analysis Batch: 613335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	80 - 120	3	20
Tetrachloroethylene	50.0	56.5		ug/L		113	80 - 121	4	20
Toluene	50.0	55.7		ug/L		111	80 - 113	2	20
trans-1,4-Dichloro-2-butene	50.0	56.9		ug/L		114	68 - 125	2	30
trans-1,2-Dichloroethene	50.0	55.6		ug/L		111	80 - 120	3	20
trans-1,3-Dichloropropene	50.0	58.0		ug/L		116	80 - 120	2	30
1,1,1-Trichloroethane	50.0	55.0		ug/L		110	80 - 120	3	20
1,1,2-Trichloroethane	50.0	56.3		ug/L		113	80 - 120	2	20
Trichloroethene	50.0	55.7		ug/L		111	80 - 120	4	20
Trichlorofluoromethane	50.0	54.0		ug/L		108	60 - 141	5	20
1,2,3-Trichloropropane	50.0	53.1		ug/L		106	80 - 123	0	30
Vinyl acetate	100	119		ug/L		119	67 - 135	4	20
Vinyl chloride	50.1	52.4		ug/L		105	71 - 128	3	20
Xylenes, Total	100	108		ug/L		108	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Toluene-d8 (Surr)	*112*		*80 - 120*

Lab Sample ID: MB 680-613341/9
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/31/20 13:14	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/31/20 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/31/20 13:14*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*03/31/20 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*03/31/20 13:14*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/31/20 13:14*	*1*

Lab Sample ID: LCS 680-613341/1002
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	284		ug/L		114	70 - 135
Acrylonitrile	500	554		ug/L		111	80 - 123
Benzene	50.0	55.8		ug/L		112	80 - 120
Bromochloromethane	50.0	56.5		ug/L		113	80 - 120
Bromodichloromethane	50.0	56.8		ug/L		114	80 - 120
Bromoform	50.0	51.8		ug/L		104	74 - 126
Bromomethane	50.0	55.2		ug/L		110	62 - 130
2-Butanone (MEK)	250	278		ug/L		111	80 - 131

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613341/1002
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	55.7		ug/L		111	80 - 120
Carbon tetrachloride	50.0	54.5		ug/L		109	76 - 123
Chlorobenzene	50.0	52.4		ug/L		105	80 - 120
Chloroethane	50.0	63.3		ug/L		127	66 - 135
Chloroform	50.0	57.7		ug/L		115	80 - 120
Chloromethane	50.0	69.4	*	ug/L		139	69 - 131
cis-1,2-Dichloroethene	50.0	60.6	*	ug/L		121	80 - 120
cis-1,3-Dichloropropene	50.0	61.3	*	ug/L		123	80 - 120
Dibromochloromethane	50.0	53.3		ug/L		107	80 - 121
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/L		106	71 - 134
1,2-Dibromoethane	50.0	55.1		ug/L		110	80 - 120
Dibromomethane	50.0	57.2		ug/L		114	80 - 120
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	80 - 120
1,1-Dichloroethane	50.0	59.6		ug/L		119	80 - 120
1,2-Dichloroethane	50.0	61.0	*	ug/L		122	80 - 120
1,1-Dichloroethene	50.0	58.6		ug/L		117	76 - 120
1,2-Dichloropropane	50.0	58.7		ug/L		117	80 - 120
1,3-Dichloropropane	50.0	56.3		ug/L		113	80 - 120
Ethylbenzene	50.0	51.7		ug/L		103	80 - 120
2-Hexanone	250	271		ug/L		108	74 - 127
Iodomethane	50.0	57.7		ug/L		115	52 - 142
Methylene Chloride	50.0	55.2		ug/L		110	80 - 120
4-Methyl-2-pentanone (MIBK)	250	275		ug/L		110	76 - 124
Methyl tert-butyl ether	50.0	58.1		ug/L		116	80 - 120
Styrene	50.0	52.0		ug/L		104	80 - 120
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/L		108	80 - 121
1,1,2,2-Tetrachloroethane	50.0	55.1		ug/L		110	80 - 120
Tetrachloroethylene	50.0	51.5		ug/L		103	80 - 121
Toluene	50.0	53.6		ug/L		107	80 - 113
trans-1,4-Dichloro-2-butene	50.0	57.6		ug/L		115	68 - 125
trans-1,2-Dichloroethene	50.0	60.1		ug/L		120	80 - 120
trans-1,3-Dichloropropene	50.0	59.4		ug/L		119	80 - 120
1,1,1-Trichloroethane	50.0	56.6		ug/L		113	80 - 120
1,1,2-Trichloroethane	50.0	56.2		ug/L		112	80 - 120
Trichloroethene	50.0	52.6		ug/L		105	80 - 120
Trichlorofluoromethane	50.0	58.6		ug/L		117	60 - 141
1,2,3-Trichloropropane	50.0	51.8		ug/L		104	80 - 123
Vinyl acetate	100	152	*	ug/L		152	67 - 135
Vinyl chloride	50.0	59.2		ug/L		118	71 - 128
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*117*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613341/4
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			50.0	60.9	*	ug/L		122	80 - 120	1	20
Trichloroethene			50.0	53.8		ug/L		108	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*116*		*80 - 122*
1,2-Dichloroethane-d4 (Surr)	*115*		*73 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-612826/8
Matrix: Water
Analysis Batch: 612826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/27/20 10:11	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/27/20 10:11	1
Methane	0.29	U	0.58	0.29	ug/L			03/27/20 10:11	1
Methane (TCD)	39	U	390	39	ug/L			03/27/20 10:11	1

Lab Sample ID: LCS 680-612826/3
Matrix: Water
Analysis Batch: 612826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane			288	284		ug/L		99	75 - 125
Ethylene			269	268		ug/L		99	75 - 125
Methane			154	151		ug/L		98	75 - 125

Lab Sample ID: LCS 680-612826/6
Matrix: Water
Analysis Batch: 612826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)			1920	1710		ug/L		89	75 - 125

Lab Sample ID: LCSD 680-612826/4
Matrix: Water
Analysis Batch: 612826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane			288	283		ug/L		98	75 - 125	0	30
Ethylene			269	268		ug/L		99	75 - 125	0	30
Methane			154	150		ug/L		98	75 - 125	1	30

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 680-612826/7
Matrix: Water
Analysis Batch: 612826

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)			1920	1800		ug/L		94	75 - 125	5	30

Lab Sample ID: 680-181793-15 MS
Matrix: Water
Analysis Batch: 612826

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	5.8		288	267		ug/L		91	75 - 125
Ethylene	7.4		269	249		ug/L		90	75 - 125

Lab Sample ID: 680-181793-15 MSD
Matrix: Water
Analysis Batch: 612826

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	5.8		288	251		ug/L		85	75 - 125	6	30
Ethylene	7.4		269	235		ug/L		84	75 - 125	6	30

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-613178/2
Matrix: Water
Analysis Batch: 613178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			03/27/20 08:29	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			03/27/20 08:29	1

Lab Sample ID: LCS 680-613178/3
Matrix: Water
Analysis Batch: 613178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon			20.0	19.8		mg/L		99	80 - 120
Total Organic Carbon - Quad			20.0	19.8		mg/L		99	80 - 120
TOC Result 1			20.0	19.7		mg/L		99	80 - 120
TOC Result 2			20.0	19.7		mg/L		99	80 - 120
TOC Result 3			20.0	19.9		mg/L		99	80 - 120
TOC Result 4			20.0	19.9		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-613178/4
Matrix: Water
Analysis Batch: 613178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon			20.0	19.9		mg/L		100	80 - 120	1	25
Total Organic Carbon - Quad			20.0	19.9		mg/L		100	80 - 120	1	25
TOC Result 1			20.0	19.7		mg/L		98	80 - 120	0	25
TOC Result 2			20.0	20.1		mg/L		100	80 - 120	2	25
TOC Result 3			20.0	20.1		mg/L		100	80 - 120	1	25

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 680-613178/4
Matrix: Water
Analysis Batch: 613178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TOC Result 4			20.0	19.9		mg/L		99	80 - 120	0	25

Lab Sample ID: 680-181793-15 MS
Matrix: Water
Analysis Batch: 613178

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.2		20.0	20.7		mg/L		97	80 - 120
Total Organic Carbon - Quad	1.2		20.0	20.7		mg/L		97	80 - 120
TOC Result 1	1.3		20.0	20.6		mg/L		97	80 - 120
TOC Result 2	1.2		20.0	20.5		mg/L		96	80 - 120
TOC Result 3	1.2		20.0	20.7		mg/L		98	80 - 120
TOC Result 4	1.2		20.0	20.8		mg/L		98	80 - 120

Lab Sample ID: 680-181793-15 MSD
Matrix: Water
Analysis Batch: 613178

Client Sample ID: CWM-183-MW13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.2		20.0	20.8		mg/L		98	80 - 120	0	25
Total Organic Carbon - Quad	1.2		20.0	20.8		mg/L		98	80 - 120	0	25
TOC Result 1	1.3		20.0	20.7		mg/L		97	80 - 120	0	25
TOC Result 2	1.2		20.0	20.5		mg/L		97	80 - 120	0	25
TOC Result 3	1.2		20.0	20.9		mg/L		99	80 - 120	1	25
TOC Result 4	1.2		20.0	21.0		mg/L		99	80 - 120	1	25

GC/MS VOA

Analysis Batch: 612986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-5	CWM-183-MW19	Total/NA	Water	8260B	
MB 680-612986/10	Method Blank	Total/NA	Water	8260B	
LCS 680-612986/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-612986/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 612992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-7	CWM-183-MW31	Total/NA	Water	8260B	
680-181793-8	CWM-183-MW28	Total/NA	Water	8260B	
680-181793-13	DUP #342	Total/NA	Water	8260B	
MB 680-612992/10	Method Blank	Total/NA	Water	8260B	
LCS 680-612992/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-612992/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-4	CWM-183-MW15	Total/NA	Water	8260B	
MB 680-613128/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613128/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613128/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-9	CWM-183-MW22	Total/NA	Water	8260B	
680-181793-10	CWM-183-MW21	Total/NA	Water	8260B	
680-181793-11	CWM-183-MW04	Total/NA	Water	8260B	
680-181793-12	DUP #341	Total/NA	Water	8260B	
680-181793-14	TB #548	Total/NA	Water	8260B	
MB 680-613134/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613134/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613134/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-15	CWM-183-MW13	Total/NA	Water	8260B	
MB 680-613140/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613140/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613140/5	Lab Control Sample Dup	Total/NA	Water	8260B	
680-181793-15 MS	CWM-183-MW13	Total/NA	Water	8260B	
680-181793-15 MSD	CWM-183-MW13	Total/NA	Water	8260B	

Analysis Batch: 613146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-6	CWM-183-MW25	Total/NA	Water	8260B	
MB 680-613146/9	Method Blank	Total/NA	Water	8260B	
LCS 680-613146/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613146/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-3	CWM-183-MW17	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 613323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-613323/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613323/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613323/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-1	CWM-183-MW16	Total/NA	Water	8260B	
680-181793-2	CWM-183-MW20	Total/NA	Water	8260B	
MB 680-613335/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613335/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613335/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-2 - DL	CWM-183-MW20	Total/NA	Water	8260B	
680-181793-15 - DL	CWM-183-MW13	Total/NA	Water	8260B	
MB 680-613341/9	Method Blank	Total/NA	Water	8260B	
LCS 680-613341/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613341/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 612826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-11	CWM-183-MW04	Total/NA	Water	RSK-175	
680-181793-12	DUP #341	Total/NA	Water	RSK-175	
680-181793-15	CWM-183-MW13	Total/NA	Water	RSK-175	
MB 680-612826/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-612826/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-612826/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-612826/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-612826/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	
680-181793-15 MS	CWM-183-MW13	Total/NA	Water	RSK-175	
680-181793-15 MSD	CWM-183-MW13	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 613178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181793-11	CWM-183-MW04	Total/NA	Water	9060A	
680-181793-12	DUP #341	Total/NA	Water	9060A	
680-181793-15	CWM-183-MW13	Total/NA	Water	9060A	
MB 680-613178/2	Method Blank	Total/NA	Water	9060A	
LCS 680-613178/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 680-613178/4	Lab Control Sample Dup	Total/NA	Water	9060A	
680-181793-15 MS	CWM-183-MW13	Total/NA	Water	9060A	
680-181793-15 MSD	CWM-183-MW13	Total/NA	Water	9060A	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Client Sample ID: CWM-183-MW16
Lab Sample ID: 680-181793-1
Date Collected: 03/18/20 09:01
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613335	03/31/20 19:17	P1C	TAL SAV
	Instrument ID: CMSC									

Client Sample ID: CWM-183-MW20
Lab Sample ID: 680-181793-2
Date Collected: 03/18/20 11:36
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613335	03/31/20 19:41	P1C	TAL SAV
	Instrument ID: CMSC									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	613341	03/31/20 19:29	Y1S	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: CWM-183-MW17
Lab Sample ID: 680-181793-3
Date Collected: 03/18/20 14:11
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613323	03/31/20 18:19	Y1S	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: CWM-183-MW15
Lab Sample ID: 680-181793-4
Date Collected: 03/18/20 09:51
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613128	03/30/20 11:20	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: CWM-183-MW19
Lab Sample ID: 680-181793-5
Date Collected: 03/17/20 11:45
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	612986	03/28/20 23:11	P1C	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: CWM-183-MW25
Lab Sample ID: 680-181793-6
Date Collected: 03/17/20 15:05
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613146	03/30/20 12:29	Y1S	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Client Sample ID: CWM-183-MW31
Lab Sample ID: 680-181793-7
Date Collected: 03/17/20 10:21
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	612992	03/28/20 16:10	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW28
Lab Sample ID: 680-181793-8
Date Collected: 03/17/20 14:11
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	612992	03/28/20 16:34	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW22
Lab Sample ID: 680-181793-9
Date Collected: 03/18/20 10:10
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 11:50	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW21
Lab Sample ID: 680-181793-10
Date Collected: 03/18/20 09:00
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 12:13	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW04
Lab Sample ID: 680-181793-11
Date Collected: 03/18/20 11:45
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 12:36	UI	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	612826	03/27/20 13:52	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	613178	03/27/20 14:21	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: DUP #341
Lab Sample ID: 680-181793-12
Date Collected: 03/18/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 13:00	UI	TAL SAV
	Instrument ID: CMSB									

Lab Chronicle

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Client Sample ID: DUP #341
Lab Sample ID: 680-181793-12
Date Collected: 03/18/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	612826	03/27/20 14:05	MYD	TAL SAV
Total/NA	Analysis	9060A		1	40 mL	40 mL	613178	03/27/20 14:39	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: DUP #342
Lab Sample ID: 680-181793-13
Date Collected: 03/17/20 00:00
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	612992	03/28/20 16:57	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: TB #548
Lab Sample ID: 680-181793-14
Date Collected: 03/18/20 15:00
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 11:26	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM-183-MW13
Lab Sample ID: 680-181793-15
Date Collected: 03/18/20 13:55
Matrix: Water
Date Received: 03/19/20 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	613140	03/30/20 17:57	P1C	TAL SAV
	Instrument ID: CMSC									
Total/NA	Analysis	8260B	DL	25	5 mL	5 mL	613341	03/31/20 18:19	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	612826	03/27/20 14:30	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060A		1	40 mL	40 mL	613178	03/27/20 14:57	RKJ	TAL SAV
	Instrument ID: TOC7									

Laboratory References:
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181793-1
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-20

Method Summary

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6),TrainingAreaT6/Naylor Field

Job ID: 680-181793-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
9060A	Organic Carbon, Total (TOC)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5987
Cooler ID 1
Page 1 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 19.094.20-11.1
Lab contract: 19.094.20-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW16	NS	MW	Water	BP	3/18/20	9:01	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW20	NS	MW	Water	BP	3/18/20	11:36	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW17	NS	MW	Water	BP	3/18/20	14:11	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW15	NS	MW	Water	BP	3/18/20	9:51	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW19	NS	MW	Water	BP	3/17/20	11:45	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW25	NS	MW	Water	BP	3/17/20	15:05	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW31	NS	MW	Water	BP	3/17/20	10:21	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW28	NS	MW	Water	BP	3/17/20	14:11	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW22	NS	MW	Water	BP	3/18/20	10:10	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW21	NS	MW	Water	BP	3/18/20	9:00	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW04	NS	MW	Water	BP	3/18/20	11:45	X	X	X	

680-181793 Chain of Custody

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water

Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): Date/Time: 3/18/2020 16:00 Received by (Signature): 3/19/2020 0845

Relinquished by (Signature): Date/Time: Received by (Signature): 3.2/3.6

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5987
Cooler ID 1
Page 2 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 19.094.20-11.1
Lab contract: 19.094.20-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	DUP # 341	FD	MW	Water	BP	3/18/20	N/A	X	X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	DUP # 342	FD	MW	Water	BP	3/17/20	N/A	X			
Parcel 183(6), Training Area T6 (Naylor Field)	TB# 548	TB	TB	Water	Grab	3/18/20	15:00				X
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	NS	MW	Water	BP	3/18/20	13:55	X	X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	MS/MSD	MW	Water	BP	3/18/20	13:55	X	X	X	
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):
Date/Time: 3/18/2020 16:00
Received by (Signature): 3/19/2020 0845

Relinquished by (Signature):
Date/Time:
Received by (Signature): 3.2/3.2

4/1/2020

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-181793-1

Login Number: 181793
List Number: 1
Creator: Laughlin, Paul D

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-181865-1
Client Project/Site: Parcel183(6)Training AreaT6/Naylor Field

For:
Matrix Environmental Services, LLC
1601 Blake Street
Suite 200
Denver, Colorado 80202

Attn: Ms. Betty Van Pelt

Authorized for release by:
4/1/2020 6:50:33 PM

Jon Lawhon, Project Manager I
(912)250-0283
jon.lawhon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-181865-1	CWM--183-MW11	Water	03/19/20 09:15	03/20/20 09:00	
680-181865-2	CWM--183-MW06	Water	03/19/20 10:40	03/20/20 09:00	
680-181865-3	CWM--183-MW08	Water	03/19/20 08:16	03/20/20 09:00	
680-181865-4	CWM--183-MW07	Water	03/19/20 09:16	03/20/20 09:00	
680-181865-5	CWM--183-MW09	Water	03/19/20 10:51	03/20/20 09:00	
680-181865-6	CWM--183-MW23	Water	03/19/20 12:30	03/20/20 09:00	
680-181865-7	TB#549	Water	03/19/20 14:00	03/20/20 09:00	

Job ID: 680-181865-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: Matrix Environmental Services, LLC

Project: Parcel183(6)Training AreaT6/Naylor Field

Report Number: 680-181865-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 3/20/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples CWM--183-MW11 (680-181865-1), CWM--183-MW06 (680-181865-2), CWM--183-MW08 (680-181865-3), CWM--183-MW07 (680-181865-4), CWM--183-MW09 (680-181865-5), CWM--183-MW23 (680-181865-6) and TB#549 (680-181865-7) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/26/2020, 03/30/2020 and 03/31/2020.

Method 8260B: The matrix spike duplicate (MSD) precision for analytical batch 680-612635 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260B: The following sample(s) was received unpreserved and presented a pH >2. Analysis was performed within 7 days per EPA recommendation: CWM--183-MW23 (680-181865-6) .

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613134.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-613140 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-613140 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 680-613341 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane, 1,2-Dichloroethane and cis-1,2-Dichloroethene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-613341.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-613341 recovered outside control limits for the following analytes: Chloromethane.

Job ID: 680-181865-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

Chloromethane exceeded the RPD limit for the MSD of sample 680-181666-1 in batch 680-612635..

Sample CWM--183-MW23 (680-181865-6) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED GASES
Samples CWM--183-MW11 (680-181865-1), CWM--183-MW06 (680-181865-2), CWM--183-MW07 (680-181865-4) and CWM--183-MW09 (680-181865-5) were analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/30/2020.

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: CWM--183-MW23 (680-181865-6). Elevated reporting limits (RLs) are provided.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED GASES
Sample CWM--183-MW23 (680-181865-6) was analyzed for dissolved gases in accordance with RSK-175. The samples were analyzed on 03/26/2020.

Sample CWM--183-MW23 (680-181865-6) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON
Samples CWM--183-MW11 (680-181865-1), CWM--183-MW06 (680-181865-2), CWM--183-MW07 (680-181865-4), CWM--183-MW09 (680-181865-5) and CWM--183-MW23 (680-181865-6) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The samples were analyzed on 03/31/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: CWM--183-MW11
Lab Sample ID: 680-181865-1
Date Collected: 03/19/20 09:15
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 16:55	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 16:55	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 16:55	1
cis-1,2-Dichloroethene	**6.9**		1.0	0.41	ug/L			03/30/20 16:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 16:55	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 16:55	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 16:55	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 16:55	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 16:55	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 16:55	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 16:55	1
Trichloroethene	**43**		1.0	0.48	ug/L			03/30/20 16:55	1
Vinyl chloride	**2.5**		1.0	0.50	ug/L			03/30/20 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/30/20 16:55*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*03/30/20 16:55*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*03/30/20 16:55*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/30/20 16:09	1
Ethylene	**0.54**	**J**	1.0	0.50	ug/L			03/30/20 16:09	1
Methane	**200**		0.58	0.29	ug/L			03/30/20 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			03/31/20 05:50	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			03/31/20 05:50	1

Client Sample ID: CWM--183-MW06
Lab Sample ID: 680-181865-2
Date Collected: 03/19/20 10:40
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 17:19	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 17:19	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 17:19	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 17:19	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 17:19	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 17:19	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 17:19	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 17:19	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 17:19	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 17:19	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 17:19	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 17:19	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 17:19	1

Client Sample ID: CWM--183-MW06
Lab Sample ID: 680-181865-2
Date Collected: 03/19/20 10:40
Matrix: Water
Date Received: 03/20/20 09:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/30/20 17:19*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*03/30/20 17:19*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/30/20 17:19*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/30/20 16:22	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/30/20 16:22	1
Methane	**0.85**		0.58	0.29	ug/L			03/30/20 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.80**	**J**	1.0	0.50	mg/L			03/31/20 06:08	1
Total Organic Carbon - Quad	**0.80**	**J**	1.0	0.50	mg/L			03/31/20 06:08	1

Client Sample ID: CWM--183-MW08
Lab Sample ID: 680-181865-3
Date Collected: 03/19/20 08:16
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 17:42	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 17:42	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 17:42	1
cis-1,2-Dichloroethene	**3.2**		1.0	0.41	ug/L			03/30/20 17:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 17:42	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 17:42	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 17:42	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 17:42	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 17:42	1
trans-1,2-Dichloroethene	**0.92**	**J**	1.0	0.37	ug/L			03/30/20 17:42	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 17:42	1
Trichloroethene	**3.8**		1.0	0.48	ug/L			03/30/20 17:42	1
Vinyl chloride	**2.9**		1.0	0.50	ug/L			03/30/20 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/30/20 17:42*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 17:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*03/30/20 17:42*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 17:42*	*1*

Client Sample ID: CWM--183-MW07
Lab Sample ID: 680-181865-4
Date Collected: 03/19/20 09:16
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 18:30	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 18:30	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 18:30	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.41	ug/L			03/30/20 18:30	1

Client Sample ID: CWM--183-MW07
Lab Sample ID: 680-181865-4
Date Collected: 03/19/20 09:16
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 18:30	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 18:30	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 18:30	1
1,1,2,2-Tetrachloroethane	**1.3**		1.0	0.62	ug/L			03/30/20 18:30	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 18:30	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 18:30	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 18:30	1
Trichloroethene	**5.6**		1.0	0.48	ug/L			03/30/20 18:30	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*03/30/20 18:30*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*03/30/20 18:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*03/30/20 18:30*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/30/20 16:35	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/30/20 16:35	1
Methane	0.29	U	0.58	0.29	ug/L			03/30/20 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.4**		1.0	0.50	mg/L			03/31/20 06:25	1
Total Organic Carbon - Quad	**1.4**		1.0	0.50	mg/L			03/31/20 06:25	1

Client Sample ID: CWM--183-MW09
Lab Sample ID: 680-181865-5
Date Collected: 03/19/20 10:51
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U *	5.0	2.5	ug/L			03/30/20 15:13	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 15:13	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 15:13	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.41	ug/L			03/30/20 15:13	1
1,2-Dichloroethane	**0.94**	**J**	1.0	0.50	ug/L			03/30/20 15:13	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 15:13	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 15:13	1
1,1,2,2-Tetrachloroethane	**20**		1.0	0.62	ug/L			03/30/20 15:13	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 15:13	1
trans-1,2-Dichloroethene	**4.4**		1.0	0.37	ug/L			03/30/20 15:13	1
1,1,2-Trichloroethane	**8.3**		1.0	0.33	ug/L			03/30/20 15:13	1
Trichloroethene	**3.4**		1.0	0.48	ug/L			03/30/20 15:13	1
Vinyl chloride	**4.0**		1.0	0.50	ug/L			03/30/20 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/30/20 15:13*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 122*		*03/30/20 15:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*		*03/30/20 15:13*	*1*

Client Sample ID: CWM--183-MW09
Lab Sample ID: 680-181865-5
Date Collected: 03/19/20 10:51
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/30/20 15:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**1.3**		1.1	0.55	ug/L			03/30/20 16:48	1
Ethylene	**0.76**	**J**	1.0	0.50	ug/L			03/30/20 16:48	1
Methane	**300**		0.58	0.29	ug/L			03/30/20 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.8**		1.0	0.50	mg/L			03/31/20 06:43	1
Total Organic Carbon - Quad	**1.8**		1.0	0.50	mg/L			03/31/20 06:43	1

Client Sample ID: CWM--183-MW23
Lab Sample ID: 680-181865-6
Date Collected: 03/19/20 12:30
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1300	U	2500	1300	ug/L			03/26/20 18:21	500
Chloroform	250	U	500	250	ug/L			03/26/20 18:21	500
Chloromethane	200	U	500	200	ug/L			03/26/20 18:21	500
1,2-Dichloroethane	250	U	500	250	ug/L			03/26/20 18:21	500
cis-1,2-Dichloroethene	**7600**		500	210	ug/L			03/26/20 18:21	500
trans-1,2-Dichloroethene	**510**		500	190	ug/L			03/26/20 18:21	500
1,1-Dichloroethene	180	U	500	180	ug/L			03/26/20 18:21	500
Methylene Chloride	1300	U	2500	1300	ug/L			03/26/20 18:21	500
1,1,2,2-Tetrachloroethane	310	U	500	310	ug/L			03/26/20 18:21	500
Tetrachloroethylene	370	U	500	370	ug/L			03/26/20 18:21	500
1,1,2-Trichloroethane	170	U	500	170	ug/L			03/26/20 18:21	500
Trichloroethene	240	U	500	240	ug/L			03/26/20 18:21	500
Vinyl chloride	**1900**		500	250	ug/L			03/26/20 18:21	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/26/20 18:21*	*500*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*03/26/20 18:21*	*500*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*03/26/20 18:21*	*500*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/26/20 18:21*	*500*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**3.9**	**J**	5.5	2.8	ug/L			03/26/20 13:00	5
Ethylene	**610**		5.0	2.5	ug/L			03/26/20 13:00	5
CH4-TCD	**11000**		2000	200	ug/L			03/26/20 13:00	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**61**		1.0	0.50	mg/L			03/31/20 06:59	1
Total Organic Carbon - Quad	**61**		1.0	0.50	mg/L			03/31/20 06:59	1

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Client Sample ID: TB#549
Lab Sample ID: 680-181865-7
Date Collected: 03/19/20 14:00
Matrix: Water
Date Received: 03/20/20 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/31/20 14:01	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 14:01	1
Chloromethane	0.40	U *	1.0	0.40	ug/L			03/31/20 14:01	1
cis-1,2-Dichloroethene	0.41	U *	1.0	0.41	ug/L			03/31/20 14:01	1
1,2-Dichloroethane	0.50	U *	1.0	0.50	ug/L			03/31/20 14:01	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/31/20 14:01	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 14:01	1
1,1,2,2-Tetrachloroethane	0.62	U *	1.0	0.62	ug/L			03/31/20 14:01	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/31/20 14:01	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/31/20 14:01	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/31/20 14:01	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/31/20 14:01	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/31/20 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/31/20 14:01*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*03/31/20 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*03/31/20 14:01*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/31/20 14:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-612635/9
Matrix: Water
Analysis Batch: 612635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/26/20 12:29	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/26/20 12:29	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/26/20 12:29	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/26/20 12:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/26/20 12:29	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/26/20 12:29	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/26/20 12:29	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/26/20 12:29	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/26/20 12:29	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/26/20 12:29	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/26/20 12:29	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/26/20 12:29	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/26/20 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*03/26/20 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*03/26/20 12:29*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 122*		*03/26/20 12:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/26/20 12:29*	*1*

Lab Sample ID: LCS 680-612635/3
Matrix: Water
Analysis Batch: 612635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	51.6		ug/L		103	66 - 135
Chloroform	50.0	52.7		ug/L		105	80 - 120
Chloromethane	50.0	55.0		ug/L		110	69 - 131
cis-1,2-Dichloroethene	50.0	56.2		ug/L		112	80 - 120
1,2-Dichloroethane	50.0	54.3		ug/L		109	80 - 120
1,1-Dichloroethene	50.0	56.1		ug/L		112	76 - 120
Methylene Chloride	50.0	48.3		ug/L		97	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	80 - 120
Tetrachloroethylene	50.0	52.2		ug/L		104	80 - 121
trans-1,2-Dichloroethene	50.0	55.1		ug/L		110	80 - 120
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 120
Trichloroethene	50.0	52.0		ug/L		104	80 - 120
Vinyl chloride	50.1	55.8		ug/L		111	71 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*110*		*73 - 131*
Dibromofluoromethane (Surr)	*109*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-612635/4
Matrix: Water
Analysis Batch: 612635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	51.0		ug/L		102	66 - 135	1	20
Chloroform			50.0	52.4		ug/L		105	80 - 120	1	20
Chloromethane			50.0	55.9		ug/L		112	69 - 131	2	30
cis-1,2-Dichloroethene			50.0	57.3		ug/L		115	80 - 120	2	20
1,2-Dichloroethane			50.0	53.3		ug/L		107	80 - 120	2	50
1,1-Dichloroethene			50.0	56.9		ug/L		114	76 - 120	2	20
Methylene Chloride			50.0	48.3		ug/L		97	80 - 120	0	20
1,1,2,2-Tetrachloroethane			50.0	50.4		ug/L		101	80 - 120	0	20
Tetrachloroethylene			50.0	52.8		ug/L		106	80 - 121	1	20
trans-1,2-Dichloroethene			50.0	55.2		ug/L		110	80 - 120	0	20
1,1,2-Trichloroethane			50.0	51.4		ug/L		103	80 - 120	0	20
Trichloroethene			50.0	53.4		ug/L		107	80 - 120	3	20
Vinyl chloride			50.1	56.0		ug/L		112	71 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Dibromofluoromethane (Surr)	*109*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 680-613134/10
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:40	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 10:40	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 10:40	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 10:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 10:40	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 10:40	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 10:40	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 10:40	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 10:40	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 10:40	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 10:40	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 10:40	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 10:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*03/30/20 10:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*03/30/20 10:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*03/30/20 10:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613134/4
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloroethane			50.0	49.9		ug/L		100	66 - 135		
Chloroform			50.0	54.1		ug/L		108	80 - 120		
Chloromethane			50.0	52.3		ug/L		105	69 - 131		
cis-1,2-Dichloroethene			50.0	56.2		ug/L		112	80 - 120		
1,2-Dichloroethane			50.0	54.8		ug/L		110	80 - 120		
1,1-Dichloroethene			50.0	55.1		ug/L		110	76 - 120		
Methylene Chloride			50.0	49.2		ug/L		98	80 - 120		
1,1,2,2-Tetrachloroethane			50.0	52.5		ug/L		105	80 - 120		
Tetrachloroethylene			50.0	53.4		ug/L		107	80 - 121		
trans-1,2-Dichloroethene			50.0	55.5		ug/L		111	80 - 120		
1,1,2-Trichloroethane			50.0	54.6		ug/L		109	80 - 120		
Trichloroethene			50.0	55.4		ug/L		111	80 - 120		
Vinyl chloride			50.1	55.1		ug/L		110	71 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*73 - 131*
Dibromofluoromethane (Surr)	*110*		*80 - 122*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 680-613134/5
Matrix: Water
Analysis Batch: 613134

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	51.1		ug/L		102	66 - 135	2	20
Chloroform			50.0	52.9		ug/L		106	80 - 120	2	20
Chloromethane			50.0	50.8		ug/L		102	69 - 131	3	30
cis-1,2-Dichloroethene			50.0	55.7		ug/L		111	80 - 120	1	20
1,2-Dichloroethane			50.0	52.9		ug/L		106	80 - 120	4	50
1,1-Dichloroethene			50.0	55.6		ug/L		111	76 - 120	1	20
Methylene Chloride			50.0	48.1		ug/L		96	80 - 120	2	20
1,1,2,2-Tetrachloroethane			50.0	51.0		ug/L		102	80 - 120	3	20
Tetrachloroethylene			50.0	54.4		ug/L		109	80 - 121	2	20
trans-1,2-Dichloroethene			50.0	55.4		ug/L		111	80 - 120	0	20
1,1,2-Trichloroethane			50.0	52.8		ug/L		106	80 - 120	3	20
Trichloroethene			50.0	54.3		ug/L		109	80 - 120	2	20
Vinyl chloride			50.1	55.6		ug/L		111	71 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Dibromofluoromethane (Surr)	*108*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-613140/10
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/30/20 10:55	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/30/20 10:55	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/30/20 10:55	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/30/20 10:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/30/20 10:55	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/30/20 10:55	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/30/20 10:55	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/30/20 10:55	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/30/20 10:55	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/30/20 10:55	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/30/20 10:55	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/30/20 10:55	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/30/20 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*03/30/20 10:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*03/30/20 10:55*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*03/30/20 10:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/30/20 10:55*	*1*

Lab Sample ID: LCS 680-613140/4
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	69.5	*	ug/L		139	66 - 135
Chloroform	50.0	53.9		ug/L		108	80 - 120
Chloromethane	50.0	50.1		ug/L		100	69 - 131
cis-1,2-Dichloroethene	50.0	54.0		ug/L		108	80 - 120
1,2-Dichloroethane	50.0	53.9		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	51.9		ug/L		104	76 - 120
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	55.6		ug/L		111	80 - 120
Tetrachloroethylene	50.0	55.4		ug/L		111	80 - 121
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	55.8		ug/L		112	80 - 120
Trichloroethene	50.0	54.4		ug/L		109	80 - 120
Vinyl chloride	50.0	49.7		ug/L		99	71 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*
Dibromofluoromethane (Surr)	*111*		*80 - 122*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-613140/5
Matrix: Water
Analysis Batch: 613140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	71.4	*	ug/L		143	66 - 135	3	20
Chloroform			50.0	55.4		ug/L		111	80 - 120	3	20
Chloromethane			50.0	50.6		ug/L		101	69 - 131	1	30
cis-1,2-Dichloroethene			50.0	55.5		ug/L		111	80 - 120	3	20
1,2-Dichloroethane			50.0	55.8		ug/L		112	80 - 120	3	50
1,1-Dichloroethene			50.0	53.8		ug/L		108	76 - 120	4	20
Methylene Chloride			50.0	50.9		ug/L		102	80 - 120	4	20
1,1,2,2-Tetrachloroethane			50.0	55.6		ug/L		111	80 - 120	0	20
Tetrachloroethylene			50.0	56.4		ug/L		113	80 - 121	2	20
trans-1,2-Dichloroethene			50.0	55.8		ug/L		112	80 - 120	4	20
1,1,2-Trichloroethane			50.0	57.6		ug/L		115	80 - 120	3	20
Trichloroethene			50.0	56.2		ug/L		112	80 - 120	3	20
Vinyl chloride			50.0	50.4		ug/L		101	71 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*73 - 131*
Dibromofluoromethane (Surr)	*113*		*80 - 122*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*

Lab Sample ID: MB 680-613341/9
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	2.5	U	5.0	2.5	ug/L			03/31/20 13:14	1
Chloroform	0.50	U	1.0	0.50	ug/L			03/31/20 13:14	1
Chloromethane	0.40	U	1.0	0.40	ug/L			03/31/20 13:14	1
cis-1,2-Dichloroethene	0.41	U	1.0	0.41	ug/L			03/31/20 13:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	ug/L			03/31/20 13:14	1
1,1-Dichloroethene	0.36	U	1.0	0.36	ug/L			03/31/20 13:14	1
Methylene Chloride	2.5	U	5.0	2.5	ug/L			03/31/20 13:14	1
1,1,2,2-Tetrachloroethane	0.62	U	1.0	0.62	ug/L			03/31/20 13:14	1
Tetrachloroethylene	0.74	U	1.0	0.74	ug/L			03/31/20 13:14	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			03/31/20 13:14	1
1,1,2-Trichloroethane	0.33	U	1.0	0.33	ug/L			03/31/20 13:14	1
Trichloroethene	0.48	U	1.0	0.48	ug/L			03/31/20 13:14	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			03/31/20 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*03/31/20 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*03/31/20 13:14*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 122*		*03/31/20 13:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/31/20 13:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-613341/1002
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloroethane			50.0	63.3		ug/L		127	66 - 135		
Chloroform			50.0	57.7		ug/L		115	80 - 120		
Chloromethane			50.0	69.4	*	ug/L		139	69 - 131		
cis-1,2-Dichloroethene			50.0	60.6	*	ug/L		121	80 - 120		
1,2-Dichloroethane			50.0	61.0	*	ug/L		122	80 - 120		
1,1-Dichloroethene			50.0	58.6		ug/L		117	76 - 120		
Methylene Chloride			50.0	55.2		ug/L		110	80 - 120		
1,1,2,2-Tetrachloroethane			50.0	55.1		ug/L		110	80 - 120		
Tetrachloroethylene			50.0	51.5		ug/L		103	80 - 121		
trans-1,2-Dichloroethene			50.0	60.1		ug/L		120	80 - 120		
1,1,2-Trichloroethane			50.0	56.2		ug/L		112	80 - 120		
Trichloroethene			50.0	52.6		ug/L		105	80 - 120		
Vinyl chloride			50.0	59.2		ug/L		118	71 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*111*		*73 - 131*
Dibromofluoromethane (Surr)	*117*		*80 - 122*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 680-613341/4
Matrix: Water
Analysis Batch: 613341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			50.0	62.6		ug/L		125	66 - 135	1	20
Chloroform			50.0	57.9		ug/L		116	80 - 120	0	20
Chloromethane			50.0	51.8		ug/L		104	69 - 131	29	30
cis-1,2-Dichloroethene			50.0	60.9	*	ug/L		122	80 - 120	1	20
1,2-Dichloroethane			50.0	62.4	*	ug/L		125	80 - 120	2	50
1,1-Dichloroethene			50.0	56.8		ug/L		114	76 - 120	3	20
Methylene Chloride			50.0	57.2		ug/L		114	80 - 120	4	20
1,1,2,2-Tetrachloroethane			50.0	61.6	*	ug/L		123	80 - 120	11	20
Tetrachloroethylene			50.0	53.2		ug/L		106	80 - 121	3	20
trans-1,2-Dichloroethene			50.0	58.0		ug/L		116	80 - 120	3	20
1,1,2-Trichloroethane			50.0	59.6		ug/L		119	80 - 120	6	20
Trichloroethene			50.0	53.8		ug/L		108	80 - 120	2	20
Vinyl chloride			50.0	57.5		ug/L		115	71 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*115*		*73 - 131*
Dibromofluoromethane (Surr)	*116*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-612632/9
Matrix: Water
Analysis Batch: 612632

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.29	U	0.58	0.29	ug/L			03/26/20 10:39	1
Ethane	0.55	U	1.1	0.55	ug/L			03/26/20 10:39	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/26/20 10:39	1
CH4-TCD	39	U	390	39	ug/L			03/26/20 10:39	1

Lab Sample ID: LCS 680-612632/3
Matrix: Water
Analysis Batch: 612632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	154	149		ug/L		97	75 - 125
Ethane	288	281		ug/L		98	75 - 125
Ethylene	269	264		ug/L		98	75 - 125

Lab Sample ID: LCS 680-612632/7
Matrix: Water
Analysis Batch: 612632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
CH4-TCD	1920	2130		ug/L		111	75 - 125

Lab Sample ID: LCSD 680-612632/4
Matrix: Water
Analysis Batch: 612632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	154	146		ug/L		95	75 - 125	2	30
Ethane	288	274		ug/L		95	75 - 125	3	30
Ethylene	269	256		ug/L		95	75 - 125	3	30

Lab Sample ID: LCSD 680-612632/8
Matrix: Water
Analysis Batch: 612632

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
CH4-TCD	1920	1800		ug/L		94	75 - 125	17	30

Lab Sample ID: MB 680-613175/8
Matrix: Water
Analysis Batch: 613175

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			03/30/20 13:09	1
Ethylene	0.50	U	1.0	0.50	ug/L			03/30/20 13:09	1
Methane	0.29	U	0.58	0.29	ug/L			03/30/20 13:09	1
Methane (TCD)	39	U	390	39	ug/L			03/30/20 13:09	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 680-613175/3
Matrix: Water
Analysis Batch: 613175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	271		ug/L		94	75 - 125
Ethylene	269	252		ug/L		93	75 - 125
Methane	154	145		ug/L		94	75 - 125

Lab Sample ID: LCS 680-613175/6
Matrix: Water
Analysis Batch: 613175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	1900		ug/L		99	75 - 125

Lab Sample ID: LCSD 680-613175/4
Matrix: Water
Analysis Batch: 613175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	269		ug/L		93	75 - 125	1	30
Ethylene	269	252		ug/L		94	75 - 125	0	30
Methane	154	144		ug/L		94	75 - 125	0	30

Lab Sample ID: LCSD 680-613175/7
Matrix: Water
Analysis Batch: 613175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	1960		ug/L		102	75 - 125	3	30

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-613443/2
Matrix: Water
Analysis Batch: 613443

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L			03/31/20 04:23	1
Total Organic Carbon - Quad	0.50	U	1.0	0.50	mg/L			03/31/20 04:23	1

Lab Sample ID: LCS 680-613443/3
Matrix: Water
Analysis Batch: 613443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	20.0	19.8		mg/L		99	80 - 120
TOC Result 1	20.0	19.4		mg/L		97	80 - 120
TOC Result 2	20.0	19.8		mg/L		99	80 - 120
TOC Result 3	20.0	19.9		mg/L		99	80 - 120
TOC Result 4	20.0	20.0		mg/L		100	80 - 120
Total Organic Carbon - Quad	20.0	19.8		mg/L		99	80 - 120

Client: Matrix Environmental Services, LLC
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Job ID: 680-181865-1

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 680-613443/4
Matrix: Water
Analysis Batch: 613443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon			20.0	20.0		mg/L		100	80 - 120	1	25
TOC Result 1			20.0	20.1		mg/L		100	80 - 120	3	25
TOC Result 2			20.0	19.9		mg/L		99	80 - 120	0	25
TOC Result 3			20.0	20.1		mg/L		101	80 - 120	1	25
TOC Result 4			20.0	20.0		mg/L		100	80 - 120	0	25
Total Organic Carbon - Quad			20.0	20.0		mg/L		100	80 - 120	1	25

QC Association Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

GC/MS VOA

Analysis Batch: 612635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-6	CWM--183-MW23	Total/NA	Water	8260B	
MB 680-612635/9	Method Blank	Total/NA	Water	8260B	
LCS 680-612635/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-612635/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-1	CWM--183-MW11	Total/NA	Water	8260B	
680-181865-2	CWM--183-MW06	Total/NA	Water	8260B	
680-181865-3	CWM--183-MW08	Total/NA	Water	8260B	
680-181865-4	CWM--183-MW07	Total/NA	Water	8260B	
MB 680-613134/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613134/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613134/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-5	CWM--183-MW09	Total/NA	Water	8260B	
MB 680-613140/10	Method Blank	Total/NA	Water	8260B	
LCS 680-613140/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613140/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 613341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-7	TB#549	Total/NA	Water	8260B	
MB 680-613341/9	Method Blank	Total/NA	Water	8260B	
LCS 680-613341/1002	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-613341/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 612632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-6	CWM--183-MW23	Total/NA	Water	RSK-175	
MB 680-612632/9	Method Blank	Total/NA	Water	RSK-175	
LCS 680-612632/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-612632/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-612632/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-612632/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 613175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-1	CWM--183-MW11	Total/NA	Water	RSK-175	
680-181865-2	CWM--183-MW06	Total/NA	Water	RSK-175	
680-181865-4	CWM--183-MW07	Total/NA	Water	RSK-175	
680-181865-5	CWM--183-MW09	Total/NA	Water	RSK-175	
MB 680-613175/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-613175/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-613175/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-613175/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-613175/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

QC Association Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

General Chemistry

Analysis Batch: 613443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-181865-1	CWM--183-MW11	Total/NA	Water	9060	
680-181865-2	CWM--183-MW06	Total/NA	Water	9060	
680-181865-4	CWM--183-MW07	Total/NA	Water	9060	
680-181865-5	CWM--183-MW09	Total/NA	Water	9060	
680-181865-6	CWM--183-MW23	Total/NA	Water	9060	
MB 680-613443/2	Method Blank	Total/NA	Water	9060	
LCS 680-613443/3	Lab Control Sample	Total/NA	Water	9060	
LCSD 680-613443/4	Lab Control Sample Dup	Total/NA	Water	9060	

Lab Chronicle

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Client Sample ID: CWM--183-MW11
Lab Sample ID: 680-181865-1
Date Collected: 03/19/20 09:15
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 16:55	UI	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	613175	03/30/20 16:09	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060		1	40 mL	40 mL	613443	03/31/20 05:50	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM--183-MW06
Lab Sample ID: 680-181865-2
Date Collected: 03/19/20 10:40
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 17:19	UI	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	613175	03/30/20 16:22	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060		1	40 mL	40 mL	613443	03/31/20 06:08	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM--183-MW08
Lab Sample ID: 680-181865-3
Date Collected: 03/19/20 08:16
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 17:42	UI	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: CWM--183-MW07
Lab Sample ID: 680-181865-4
Date Collected: 03/19/20 09:16
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613134	03/30/20 18:30	UI	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	613175	03/30/20 16:35	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060		1	40 mL	40 mL	613443	03/31/20 06:25	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM--183-MW09
Lab Sample ID: 680-181865-5
Date Collected: 03/19/20 10:51
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613140	03/30/20 15:13	P1C	TAL SAV
	Instrument ID: CMSC									

Lab Chronicle

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Client Sample ID: CWM--183-MW09
Lab Sample ID: 680-181865-5
Date Collected: 03/19/20 10:51
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	613175	03/30/20 16:48	MYD	TAL SAV
Total/NA	Analysis	9060		1	40 mL	40 mL	613443	03/31/20 06:43	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: CWM--183-MW23
Lab Sample ID: 680-181865-6
Date Collected: 03/19/20 12:30
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	5 mL	5 mL	612635	03/26/20 18:21	P1C	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	RSK-175		5	17 mL	17 mL	612632	03/26/20 13:00	MYD	TAL SAV
	Instrument ID: CVGU									
Total/NA	Analysis	9060		1	40 mL	40 mL	613443	03/31/20 06:59	RKJ	TAL SAV
	Instrument ID: TOC7									

Client Sample ID: TB#549
Lab Sample ID: 680-181865-7
Date Collected: 03/19/20 14:00
Matrix: Water
Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	613341	03/31/20 14:01	Y1S	TAL SAV
	Instrument ID: CMSP2									

Laboratory References:
TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-20

Method Summary

Client: Matrix Environmental Services, LLC
Job ID: 680-181865-1
Project/Site: Parcel183(6)Training AreaT6/Naylor Field

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV
9060	Organic Carbon, Total (TOC)	SW846	TAL SAV
5030B	Purge and Trap	SW846	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 6010
Cooler ID 1
Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 19.094.20-11.1
Lab contract: 19.094.20-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	SW8260 - VOC 3 - 40 ml vials, None	RSK-175 -MEE 3 - 40 ml vials, HCl	RSK-175 -MEE 3 - 40 ml vials, None	TOC - SW9060 3 - 40 mL amber VOA H2SO4	SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw11	NS	mw	water	BP	3/19/20	9:15	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw06	NS	mw	Water	BP	3/19/20	10:40	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw08	NS	mw	Water	BP	3/19/20	8:16	X					
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw07	NS	mw	water	BP	3/19/20	9:16	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw09	NS	mw	Water	BP	3/19/20	10:51	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw23	NS	mw	Water	BP	3/19/20	12:30		X		X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	TB#549	TB	TB	Water	Grab	3/19/20	14:00						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													



NOTES:
QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD
COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):
Date/Time: 3/19/2020 16:00
Received by (Signature): FedEx

Relinquished by (Signature):
Date/Time:
Received by (Signature): CBanda 03-20-20 090
4.6 (CF) 5.0°C

Login Sample Receipt Checklist

Client: Matrix Environmental Services, LLC

Job Number: 680-181865-1

Login Number: 181865
List Number: 1
Creator: Banda, Christy S

List Source: Eurofins TestAmerica, Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

CHAIN OF CUSTODY

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5852
Cooler ID 1
Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	RSK-175 -MEE 3 - 40 ml vials, HCl	TOC - SW9060 3 - 40 mL amber VOA H2SO4	E300 Anions - SO4 and NO3 125 mL poly, none	4500-NH3 Ammonia 250 mL poly, H2SO4	SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW17	NS	MW	Water	BP	9/23/19	10:21	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW03	NS	MW	Water	BP	9/23/19	12:11				X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW15	NS	MW	Water	BP	9/23/19	13:36	X			X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	TB #538	TB	TB	Water	Grab	9/23/19	2:30						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													

680-174487 Chain of Custody

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature): Date/Time: 9/23/19 4:00pm Received by (Signature): FedEx

Relinquished by (Signature): Date/Time: 9-24-19 09:20 Received by (Signature):

0.3/0.2

MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5856
Cooler ID 1 of 1
Page 1 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: E300 Anions - SO4 and NO3 125 mL poly, none	Analysis: 4500-NH3 Ammonia 250 mL poly, H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW08	NS	MW	Water	BP	9/25/19	13:01	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW20	NS	MW	Water	BP	9/25/19	11:31	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW25	NS	MW	Water	BP	9/25/19	15:36	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW19	NS	MW	Water	BP	9/25/19	9:51	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW11	NS	MW	Water	BP	9/25/19	14:10	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW16	NS	MW	Water	BP	9/24/19	13:51	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW21	NS	MW	Water	BP	9/25/19	10:15	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW22	NS	MW	Water	BP	9/25/19	11:30	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW28	NS	MW	Water	BP	9/24/19	11:36	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	NS	MW	Water	BP	9/26/19	9:35	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	MS/MSD	MW	Water	BP	9/26/19	9:35	X	X	X			

680-174693 Chain of Custody

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

Relinquished by (Signature):
Date/Time: 9/26/19 4:00pm
Received by (Signature): FedEx

Relinquished by (Signature):
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MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5856
Cooler ID 1 of 1
Page 2 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
MES Contact Betty Van Pelt
MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: E300 Anions - SO4 and NO3 125 mL poly, none	Analysis: 4500-NH3 Ammonia 250 mL poly, H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW23	NS	MW	Water	BP	9/26/19	9:51	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW06	NS	MW	Water	BP	9/25/19	16:10	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW31	NS	MW	Water	BP	9/24/19	9:56	X					
Parcel 183(6), Training Area T6 (Naylor Field)	DUP# 329	FD	MW	Water	BP	N/A	N/A	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	DUP# 330	FD	MW	Water	BP	9/24/19	N/A	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW04	NS	MW	Water	BP	9/26/19	11:45	X	X	X			
Parcel 183(6), Training Area T6 (Naylor Field)	TB# 539	TB	TB	Water	Grab	9/26/19	11:00						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													

Loc: 680
174693

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5867
Cooler ID 1 of 1
Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
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Task # 18.094.19-11.1
Lab contract: 18.094.19-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: E300 Anions - SO4 and NO3 125 mL poly, none	Analysis: 4500-NH3 Ammonia 250 mL poly, H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW11	NS	MW	Water	BP	10/2/19	10:11	X	X				
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW21	NS	MW	Water	BP	10/2/19	11:35	X					
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW22	NS	MW	Water	BP	10/2/19	10:20	X					
Parcel 183(6), Training Area T6 (Naylor Field)	DUP#331	FD	FD	Water	BP	N/A	N/A	X					
Parcel 183(6), Training Area T6 (Naylor Field)	TB#540	TB	TB	Water	Grab	10/2/19	13:00						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													



NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water

Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5987
Cooler ID 1
Page 1 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
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MES Phone 801-699-1246
Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 19.094.20-11.1
Lab contract: 19.094.20-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW16	NS	MW	Water	BP	3/18/20	9:01	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW20	NS	MW	Water	BP	3/18/20	11:36	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW17	NS	MW	Water	BP	3/18/20	14:11	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW15	NS	MW	Water	BP	3/18/20	9:51	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW19	NS	MW	Water	BP	3/17/20	11:45	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW25	NS	MW	Water	BP	3/17/20	15:05	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW31	NS	MW	Water	BP	3/17/20	10:21	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW28	NS	MW	Water	BP	3/17/20	14:11	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW22	NS	MW	Water	BP	3/18/20	10:10	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW21	NS	MW	Water	BP	3/18/20	9:00	X			
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW04	NS	MW	Water	BP	3/18/20	11:45	X	X	X	

680-181793 Chain of Custody

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 5987
Cooler ID 1
Page 2 of 2

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
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Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 19.094.20-11.1
Lab contract: 19.094.20-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	Analysis: RSK-175 -MEE 3 - 40 ml vials, HCl	Analysis: TOC - SW9060 3 - 40 mL amber VOA H2SO4	Analysis: SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	DUP # 341	FD	MW	Water	BP	3/18/20	N/A	X	X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	DUP # 342	FD	MW	Water	BP	3/17/20	N/A	X			
Parcel 183(6), Training Area T6 (Naylor Field)	TB# 548	TB	TB	Water	Grab	3/18/20	15:00				X
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	NS	MW	Water	BP	3/18/20	13:55	X	X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	CWM-183-MW13	MS/MSD	MW	Water	BP	3/18/20	13:55	X	X	X	
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											
Parcel 183(6), Training Area T6 (Naylor Field)											

NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water

Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water

White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt

Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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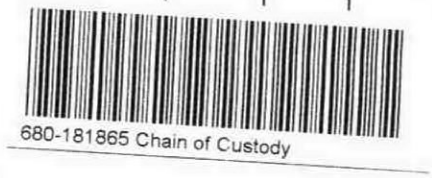
MATRIX ENVIRONMENTAL SERVICES CHAIN OF CUSTODY RECORD

COC Number 6010
Cooler ID 1
Page 1 of 1

Laboratory TestAmerica
Lab Contact Jon Lawhorn, Amy Ragnaldsen
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Project Parcel 183(6), Training Area T6 (Naylor Field)
Task # 19.094.20-11.1
Lab contract: 19.094.20-11.1.500

Samplers Signature

Site	Station ID	QC Code	Station Code	Matrix	Sample Method	Date Collected	Sample Time	Analysis: SW8260 - VOC 3 - 40 ml vials, HCl	SW8260 - VOC 3 - 40 ml vials, None	RSK-175 -MEE 3 - 40 ml vials, HCl	RSK-175 -MEE 3 - 40 ml vials, None	TOC - SW9060 3 - 40 mL amber VOA H2SO4	SW8260 - VOC TB 2 - 40 ml vials, HCl
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw11	NS	MW	Water	BP	3/19/20	9:15	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw06	NS	MW	Water	BP	3/19/20	10:40	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw08	NS	MW	Water	BP	3/19/20	8:16	X					
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw07	NS	MW	Water	BP	3/19/20	9:16	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw09	NS	MW	Water	BP	3/19/20	10:51	X		X		X	
Parcel 183(6), Training Area T6 (Naylor Field)	cwm-183-mw23	NS	MW	Water	BP	3/19/20	12:30		X		X	X	
Parcel 183(6), Training Area T6 (Naylor Field)	TB#549	TB	TB	Water	Grab	3/19/20	14:00						X
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													
Parcel 183(6), Training Area T6 (Naylor Field)													



NOTES:

QC Code: NS = Investigative Sample, FD = Field Duplicate, MS/MSD = Matrix Spike/Matrix Spike Duplicate, EB = Equipment Blank, TB = Trip Blank, WQ = Water Quality, WS = Source Water
Station Type = MW = Monitoring Well, BH = Bore Hole, SD = Sediment, SW = Surface Water, SS = Surface Soil, SU = Sump, WS = Waste Solid/Soil, WW = Waste Water
White Copy = Lab COC, Yellow COC = Field Copy, Pink COC = Data Mgmt
Double the number of bottles for MS/MSD

COMMENTS: See Task Order 093 for required list of VOCs and metals.

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APPENDIX D

DATA QUALITY SUMMARY

Appendix D

Data Quality Summary:

Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7) McClellan Anniston, Alabama

September 2019 and March 2020 Sampling Events

Prepared for:

McCLELLAN
DEVELOPMENT AUTHORITY

Prepared by:

Matrix ENVIRONMENTAL

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June 2020

TABLE OF CONTENTS

LIST OF TABLES ..... **II**

LIST OF ABBREVIATIONS AND ACRONYMS ..... **III**

1.0 INTRODUCTION **1-1**

2.0 PROJECT DESCRIPTION **2-1**
2.1 PROJECT OBJECTIVES 2-1
2.2 DATA QUALITY LEVELS 2-1
2.3 DATA QUALITY OBJECTIVES 2-1
2.4 ANALYTICAL SERVICES 2-4
2.4.1 Analytical Program 2-4
2.4.2 Quality Control 2-4

3.0 DEVIATIONS FROM PLANNED FIELD ACTIVITIES **3-1**

4.0 ASSESSMENT OF DATA QUALITY **4-2**
4.1 LABORATORY DATA QUALITY ASSESSMENT 4-2
4.1.1 Laboratory Qualification of Data 4-2
4.2 MES DATA QUALITY AND USABILITY ASSESSMENT 4-2
4.2.1 Data Review and Validation 4-2
4.2.2 MES Qualification of Data 4-3

5.0 RESULTS OF QUALITY CONTROL ANALYSES **5-1**
5.1 QUALITY CONTROL PROCEDURES AND RESULTS OF QUALITY CONTROL ANALYSES 5-1
5.1.1 Field Quality Control Procedures and Analyses 5-1
5.1.1.1 Matrix Spike/Matrix Spike Duplicate Samples and Laboratory Duplicate Samples 5-1
5.1.1.3 Field Duplicate Samples 5-3
5.1.1.4 Equipment and Trip Blanks Analyses 5-3
5.1.2 Laboratory Quality Control Procedures and Analyses 5-4
5.1.2.1 Initial Sample Inspection and Chain-of-Custody Documentation 5-4
5.1.2.3 Holding Times 5-5
5.1.2.4 Laboratory Control Sample/Laboratory Control Sample Duplicate 5-5
5.1.2.5 Method Blank Samples 5-5
5.1.2.6 Surrogate Recovery 5-6
5.1.2.7 Internal Standards 5-6
5.1.2.8 Initial and Continuing Calibration 5-7

5.2 SUMMARY OF DATA QUALITY INDICATORS 5-7
5.2.1 Precision 5-7
5.2.2 Accuracy 5-7
5.2.3 Representativeness 5-7
5.2.4 Completeness 5-8
5.2.5 Comparability 5-8

6.0 REPORTING LIMITS AND DATA USES 6-1
6.1 LABORATORY REPORTING LIMITS 6-1
6.2 COMPARISON OF LABORATORY REPORTING LIMITS TO RBTLS 6-1

7.0 CONCLUSIONS 7-1

8.0 REFERENCES 8-1

LIST OF TABLES

D5-1 Sample Index
D5-2 Summary of Final Qualifiers
D5-3 Qualified Data Summary
D5-4 Summary of MS/MSD Recoveries and RPDs
D5-5 Field Duplicate Cross Reference
D5-6 Comparison of Investigative and Field Duplicate Sample Detections
D5-7 Summary of Field Quality Control Blank Sample Detections
D5-8 Summary of LCS/LCSD Recoveries and RPDs
D5-9 Summary of Surrogate Recoveries
D6-1 Reporting Limits and Method Detection Limits Compared to RBTLs

LIST OF ABBREVIATIONS AND ACRONYMS

ADEM	Alabama Department of Environmental Management
ARBCA	*Alabama Risk-Based Corrective Action Guidance Manual*
ASTM	American Society of Testing and Materials
CCAL	Continuing calibration
CERCLA	*Comprehensive Environmental Response, Compensation, and Liability Act*
CMIP	*The Final Corrective Measures Implementation Plan for the Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)*
COC	Chain-of-custody
DQO	Data Quality Objective
DQS	Data Quality Summary
EB	Equipment blank
EPA	United States Environmental Protection Agency
FD	Field duplicate
GC/MS	Gas chromatography/mass spectrometry
ICAL	Initial calibration
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
ISB	In situ bioremediation
LCSD	Laboratory control sample duplicate
MDA	McClellan Development Authority
MDL	Method detection limit
MES	Matrix Environmental Services, LLC
MS	Matrix spike
MSD	Matrix spike duplicate
PARCCS	Precision, accuracy, representativeness, completeness, comparability, and sensitivity
QA	Quality assurance
QAP	*Quality Assurance Plan*
QC	Quality control
%R	Percent recovery
RBTL	Risk-based target level
RL	Reporting limit
RPD	Relative percent difference
RSD	Relative standard deviation
Site	Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7)
SOP	Standard operating procedure
SRM	Standard reference material
SVE	Soil vapor extraction
TAL	TestAmerica Laboratories, Inc., Savannah, Georgia
TB	Trip blank
TOC	Total Organic Carbon
VOC	Volatile Organic Compound

1.0 INTRODUCTION

Matrix Environmental Services, LLC (MES) has prepared this Data Quality Summary (DQS) in support of the Training Area T-6 (Naylor Field), Parcel 183(6) (Training Area T-6) and Cane Creek Training Area, Parcel 510(7) (Cane Creek Training Area) within McClellan, Anniston, Alabama (McClellan) formerly known as Fort McClellan. The purpose of the sampling events was to collect data to support the implementation of the selected remedy, in situ bioremediation [ISB]), for contaminated media at Training Area T-6 and Cane Creek Training Area. The sampling events were conducted on behalf of the McClellan Development Authority (MDA). This DQS addresses the data quality review for groundwater samples collected during the September/October 2019 (September 2019) and March 2020 sampling events.

The *Final Corrective Measures Implementation Plan for the Training Area T-6 (Naylor Field), Parcel 183(6) and Cane Creek Training Area, Parcel 510(7) (CMIP),* (MES, 2008) and the *Quality Assurance Plan* (*QAP*) in *Appendix A* of the *Final Installation-Wide Sampling and Analysis Plan* (MES, 2017) discusses the approved methods used to conduct the sampling events and details the specifics of quality assurance (QA) and quality control (QC) with respect to sampling and data evaluation. For purposes of this report, the Training Area T-6 and Cane Creek Training Area will be collectively referred to as "the Site".

2.0 PROJECT DESCRIPTION

Project objectives and QA objectives in terms of precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are described in this section.

2.1 PROJECT OBJECTIVES

The objective of the environmental sampling at the Site was to evaluate the effectiveness of the selected remedy for groundwater at the Site. To support this objective groundwater samples were collected from 20 groundwater monitoring wells for the sampling rounds conducted in September/October 2019 (September 2019) and March 2020. The groundwater samples were analyzed for one or more of the following: volatile organic compounds (VOCs), dissolved hydrocarbons, anions, total organic carbon (TOC), and/or ammonia.

2.2 DATA QUALITY LEVELS

During the field program, groundwater samples were collected and analyzed with screening level methods for field parameters and definitive level methods for specific chemical analytes. Screening and definitive level data are defined as follows (United States Environmental Protection Agency [EPA], 1994):

- Screening Level Data – Screening level data are subject to minimal QC requirements. Results are often not compound-specific and not quantitative, but results are available in real time. Obtaining screening level data is less costly than obtaining definitive level data, but the results are less defensible because of the greater potential for error and the inherent precision and accuracy limitations. This level is normally used for field investigation health and safety screening, but can also be used to identify media or samples for consideration for further analyses. Field pH, conductivity, temperature, turbidity, total dissolved solids, dissolved oxygen, and oxidation/reduction potential measurements collected during the sampling events associated with this report are considered screening level data.

- Definitive Level Data - Analyses performed using established analytical procedures and strict QC procedures produce definitive level data. Applicable EPA test methods (EPA, 1986,1999, and subsequent versions) were used to collect definitive level data for the Site. Analytical results produced were analyte-specific with confirmation of analyte identity and concentration. Definitive level data meeting quality criteria are suitable for site assessments, risk assessments, remedial design, and remediation efforts.

2.3 DATA QUALITY OBJECTIVES

QA objectives in terms of precision, accuracy, representativeness, completeness, comparability, and sensitivity are outlined below.

Precision is a measure of the reproducibility of a set of duplicate analytical results, usually under prescribed similar conditions. Precision, as discussed in Section A3.3.1 in the *QAP*, is expressed in terms of the relative percent difference (RPD) between duplicate determinations, or

in terms of the relative standard deviation (RSD) when three or more determinations are made. Various measures of precision exist depending on the prescribed similar conditions.

Overall sampling and analysis precision was assessed using RPDs for duplicate environmental samples, field duplicate samples (FDs), and matrix spike/matrix spike duplicates (MS/MSDs). The RPDs for laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results were used to assess laboratory precision. RPD is defined as the difference between two measurements divided by their mean and expressed as a percent as shown in the following equation:

$$RPD = \frac{|X - Y|}{(X + Y) / 2} \times 100\%$$

where:

X = Primary sample concentration (primary field investigative sample, MS, or LCS)
Y = Duplicate sample concentration (laboratory duplicate, FD, MSD, or LCSD)

To evaluate precision, the RPDs for MS/MSDs, laboratory duplicates, and LCS/LCSDs were compared to laboratory historical limits. The RPDs for FDs were compared to the project precision goal of 50 percent for aqueous samples and 100 percent for solid samples.

RSD is the standard deviation of a set of values divided by the average value expressed as a percent as shown in the following equation:

$$RSD = S/\overline{X} \times 100$$

where:

S = The standard deviation of the sample data
$\overline{X}$ = The arithmetic mean of the sample data

RSDs can be used to evaluate the linearity of the initial calibration (EPA, 1986).

Accuracy is a measure of the agreement of an analytical result with the true value. Accuracy, as discussed in Section A3.3.2 in the *QAP*, is typically expressed as a percent recovery (%R) calculated by the ratio of the measurement and accepted true value as shown in the following equation:

$$\%R = ((Xs - Xu) / K) \times 100\%$$

where:

Xs = Measured value of the spiked sample
Xu = Measured value of the unspiked sample
K = Known amount of the spike in the sample

Analytical accuracy is assessed through the analysis of spikes such as surrogates, MS/MSDs and LCS/LCSDs, performance evaluation samples, standard reference materials (SRMs) and calibration check samples. Surrogates and MS/MSDs are spiked into the actual sample matrix and are accuracy indicators that take into account the nature of the matrix in question and the

native concentration of the analyte spiked. Matrix variability or interferences from high concentrations of native compounds may adversely affect spike recovery and yield less than conclusive data. Accuracy checks that focus on analytical method and consist of compounds spiked in a blank or non-interfering matrix (e.g., LCSs, SRMs, or calibration check samples) address the accuracy of the method or instrumentation at detecting the target analyte(s) at a certain quantification level and are not considered to be subject to matrix effects. The accuracy of sample results can also be affected by holding time violations.

Representativeness, as described in Section A3.3.3 in the *QAP*, is a qualitative parameter that expresses the degree to which sample data actually represent the matrix conditions. For example, in conducting groundwater monitoring, representativeness requires proper location of wells and the collection of samples under consistent, documented procedures. Wells are located based upon the results of the hydrogeologic study in progress and are designed to provide maximum coverage of the flow conditions. Requirements and procedures for sample collection and handling are designed to maximize sample representativeness. Representativeness can also be monitored by reviewing field documentation and by performing field QA audits.

Completeness, as discussed in Section A3.3.4 in the *QAP*, represents the percentage of valid data collected from a sampling/analytical program or measurement system compared to the amount achieved under optimal conditions. The completeness goal for investigative samples is 95 percent. Completeness is calculated using the following formula:

$$\text{Percent Complete} = \frac{\text{Valid Data}}{\text{Total Data}} \times 100\%$$

Valid data are identified during the data review process as being acceptable for use or usable as qualified. Invalid data are identified as rejected.

Comparability, as discussed in Section A3.3.5 of the *QAP*, is a qualitative parameter expressing the confidence with which one data set can be compared with another. Comparability for sampling and analysis tasks is achieved by:

- Specifying well-recognized techniques and accepted standard methods for sampling and analysis, and using well-trained sampling and analysis technicians to execute the prescribed methods consistently.
- Requiring that sampling and analysis personnel produce adequate documentation to record how the prescribed methods were actually executed.
- Noting non-conformances and corrective measures taken.

Specifying standardized laboratory methods helps to ensure that the data generated for a sampling event are comparable to past and future sampling events.

Sensitivity is used broadly here to describe the method detection limits (MDLs) or reporting limits (RLs) established to meet project-specific data quality objectives (DQOs). In addition, sensitivity can be used to describe the capability of a method or instrument to discriminate

between measurement responses. Several limits have been established to describe sensitivity requirements as specified in Section A3.3.6 of the *QAP*. Reported instrument detection limits (IDLs) and MDLs are typically based upon a reagent water matrix or purified solid, and ignore sample matrix interferences and the resulting effects on the limits. For this reason, published MDLs or IDLs may not be achievable for environmental samples. The *QAP* RLs were generated by the laboratory and may exceed Risk-Based Target Levels (RBTLs) (MES, 2008) due to instrument limitations. Section 6.2 discusses the comparisons between the RBTLs and the laboratory RLs and MDLs for the sampling events associated with this report.

2.4 ANALYTICAL SERVICES

TestAmerica Laboratories, Inc (TestAmerica) in Savannah, Georgia provided the analytical services for the groundwater sampling conducted by MES.

2.4.1 Analytical Program

The *QAP* lists the EPA analytical methods used to meet definitive data requirements. The methods used to analyze constituents of concern in samples collected at the Site during the September 2019 and March 2020 sampling events were:

- Method SW8260B - VOCs by Gas Chromatography/Mass Spectrometry (GC/MS) for groundwater samples (EPA, 1986).
- Method RSK-175 - Light hydrocarbons methane, ethane, and ethene by gas chromatography (GC).
- Method SW9056A - Anions by Ion Chromatography (EPA, 1986).
- Methods SM4500-NH3F or E350.1- Ammonia by Spectrophotometry (EPA, 1997).
- Method SW9060A - TOC (EPA, 1986).

2.4.2 Quality Control

The *QAP* describes the analytical QC requirements. The results of the analytical QC data review of the sample data collected during the sampling events associated with this report are presented in Section 5.0.

3.0 DEVIATIONS FROM PLANNED FIELD ACTIVITIES

There were no deviations from the *CMIP* (MES, 2008) and its addendum (MES, 2015) noted during the preparation of this DQS with the following exceptions. Additional insitu bioremediation optimization was performed in August 2017 in the vicinity of wells CWM-183-MW07, -MW09, and -MW-23. Well CC-510-MW05, T6-SVE-07, and T6-SVE-09 were not sampled in September 2019 because they were dry or there was an insufficient water column.

4.0 ASSESSMENT OF DATA QUALITY

Data quality is assessed through two review processes. The contracted analytical laboratory performs the first data review to assess compliance with *QAP*-approved analytical methods (MES, 2013) and with laboratory standard operating procedures (SOPs). MES performs the second data review to assess compliance with the QA objectives, and to assess hard copy and electronic deliverable consistency and integrity.

4.1 LABORATORY DATA QUALITY ASSESSMENT

The laboratory data quality assessment includes an analytical data review to ensure accurate and complete data reporting and compliance with the analytical method specifications.

4.1.1 Laboratory Qualification of Data

The laboratory will flag analytical results, when necessary, to indicate potential impacts to data usability and to alert the user to special analytical conditions. More than one qualifier may be used to indicate multiple conditions or situations that apply to an individual result. The following laboratory qualifiers were used during this data quality review:

FLAG	DESCRIPTION
B	Analyte detected in an associated blank.
E	Result is above the maximum calibration range.
J	Estimated value. The concentration is less than the RL but greater than the MDL.
U	Indicates analyte was analyzed for but not detected.
^	Lab flag updated by MES data reviewer.
*	LCS or LCSD outside acceptance limits.

4.2 MES DATA QUALITY AND USABILITY ASSESSMENT

The following sections describe the procedures that MES followed to assess the quality and usability of both field measurement and definitive data. Data assessment is complete when 100 percent of the information have been collected and reviewed. Based on the results of the review process, data are categorized as fully usable, usable as qualified, or rejected.

4.2.1 Data Review and Validation

MES reviewed the analytical data in accordance with the *QAP* (MES, 2013), analytical methods (EPA, 1986 and 1997 and additional years for waste water sample analyses), and *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 2014). The data review process included reviewing and evaluating 100 percent of the hard copy data for (1) analysis holding times, (2) surrogate recoveries, (3) blank detections, (4) LCS/LCSD recoveries and RPDs, (5) MS/MSD recoveries and RPDs, (6) FD RPDs, (7) laboratory duplicate RPDs, (8) initial and continuing calibrations (ICALs and CCALs), (9) instrument tuning and performance, (10) reporting limits, and (11) completeness of the chain-of-custody (COC) forms.

Hard copy data packages were checked to verify that the following items were included:

- Case narrative
- Data summary sheets
- ICALs and CCALs
- Method or preparation blanks (at least one per QC batch)
- MS/MSD (5 percent of client samples)
- LCS/LCSD (one per QC batch)
- Duplicate analyses (laboratory duplicate sample, LCS/LCSD, and MS/MSD, as applicable)
- Holding times
- Standard preparation sheets

The results of the review of the chemical data obtained during the sampling events associated with this report are included in Section 5.0. The laboratory data reports are included in Appendix B of the Corrective Measures Effectiveness Report of which this report is an appendix.

4.2.2 MES Qualification of Data

Based on the data review, MES assigned final qualifiers to analytical results on both the hard copy results and in the database. The following final qualifiers were assigned to the results to describe data quality and usability:

FLAG	DESCRIPTION
J	Estimated detection. The associated numerical value is the approximate concentration of the analyte in the sample.
UJ	Analyte was analyzed for, but was not detected. The reported quantitation limit is estimated.
U	Result was qualified as not detected above the RL or reported sample quantitation limit.

In addition to the qualifier, a sub-qualifier was applied to describe the specific multiple conditions or situations that apply to an individual result. These qualifiers and sub-qualifiers are collectively referred to as validation codes.

FLAG	DESCRIPTION
A	Internal standard was outside laboratory control limits.
B	Result was qualified based on method blank, continuing calibration blank, or trip blank contamination.
L	Laboratory control sample and laboratory control sample duplicate were outside laboratory control limits.
M	Matrix spike and matrix spike duplicate were outside laboratory control limits.
Q	Result was qualified based on the field duplicate RPD outside criteria.
S	Surrogate recovery was outside laboratory control limits.

FLAG	DESCRIPTION
X	Result exceeded the calibration range of the instrument.

Whenever duplicate sets of results were reported by the laboratory due to re-analyses, re-extractions or dual column analytical methods, the MES reviewer chose the "most-preferred" results based on the data review. In Section 5.0, only the reportable data are shown in Tables D5-2 to D5-9.

5.0 RESULTS OF QUALITY CONTROL ANALYSES

Table D5-1 lists samples collected during the September 2019 and March 2020 sampling events and the methods used for analyses. To evaluate the data quality, the results were compared to method requirements and laboratory historical control limits.

Table D5-2 lists the analytical results that were qualified based on the data review process. Table D5-3 summarizes the number of records that were qualified for each analytical method. Based on the data review performed on the samples collected in June and September 2019 and March 2020, less than one percent of the analytical data were qualified. None of the data were rejected. The results of the data review process are discussed further in the following sections.

5.1 QUALITY CONTROL PROCEDURES AND RESULTS OF QUALITY CONTROL ANALYSES

Two types of QC results were used to evaluate data quality: field QC samples were collected and analyzed to evaluate field sampling activities, and laboratory QC samples were analyzed to evaluate laboratory analytical procedures and maintain control of the analytical methods.

5.1.1 Field Quality Control Procedures and Analyses

Field QC samples included MS/MSD samples, FDs, equipment blanks (EBs), and trip blanks (TBs). The *QAP* was used as a guidance document to identify the appropriate number of field QC samples, procedures for their collection and analysis, and evaluation of results required for the data quality review. The evaluation procedures for the field QC sample analyses are summarized below.

5.1.1.1 Matrix Spike/Matrix Spike Duplicate Samples and Laboratory Duplicate Samples

MS and MSD samples are investigative samples spiked by the laboratory with known concentrations of target analytes. A laboratory duplicate is an environmental sample that is divided into two separate aliquots by the laboratory. MS, MSD, and laboratory duplicate sample results are used to evaluate possible matrix interferences. The formulas used to calculate the percent recoveries and RPDs are presented in Section 2.3.

Accuracy was assessed by calculating the MS and MSD %Rs of the concentrations of the target analytes added to the investigative sample. The %Rs were then compared to laboratory historical control limits. When both the MS and MSD %Rs were outside laboratory historical control limits, MS/MSD qualifiers were applied only to the results for the investigative sample used for the MS/MSD. When only an MS was analyzed, qualifiers were applied when the MS %R was outside laboratory historical control limits. Low recoveries in an MS/MSD may indicate the matrix has negatively influenced the results. Constituent concentrations could be potentially higher in samples with low MS/MSD recoveries. High MS/MSD recoveries may indicate the matrix has positively influenced the results. Constituent concentrations may be potentially lower in samples with high MS/MSD recoveries.

Precision was assessed by calculating the RPDs for the MS/MSD sample pairs and laboratory duplicate samples. The MS/MSD and laboratory duplicate RPD values were reviewed to assess the precision of the analytical results based on the magnitude of the RPD values. In cases where a target analyte was not detected in at least one of the MS/MSD sample pair or laboratory duplicate sample pair, an RPD would not be valid, and therefore, was not calculated. Qualifiers were not applied based on the MS/MSD or laboratory duplicate RPD values, however, the MS/MSD and laboratory duplicate RPD values were compared to laboratory historical control limits to assess if further evaluation of the data was warranted.

The following samples were used for the groundwater MS/MSD and laboratory duplicate analyses.

- CWM-183-MW13 was used for the MS/MSD for Methods SW8260B, SW9060, and CWM-183-MW15 was used for the MS/MSD for Method SW9056A for the September 2019 groundwater sampling event.
- CWM-183-MW13 was used for the MS/MSD for Method RSK-175, SW8260B, and SW9060 for the March 2020 groundwater sampling event.

The MS/MSDs %Rs and RPDs met criteria with the exception of the following:

- September 2019 groundwater sampling events, sample CWM-183-MW13: The MS and MSD %RPD for vinyl chloride 26% was above the laboratory control limit (20%). Both the MS and MSD met criteria; no data were qualified.
- March 2020 groundwater sampling events, sample CWM-183-MW13: The MS and MSD %Rs for trichloroethene (-132%/370%) were below and above the laboratory control limits (80%/123%) and the RPD 422% (20%) was outside laboratory control limits. Sample concentration for trichloroethene was greater than four times the spike concentration; data not qualified. The MSD for bromomethane (193%) was above laboratory control limits (20-180%). The MS for bromomethane met laboratory control limits; data not qualified. RPDs were above laboratory control limits shown in parentheses for iodomethane 39% (30%), trichloroethene 422% (20%) addressed earlier in this paragraph, and cis-1,2-dichloroethene 22% (20%). No data were qualified based on RPD results.

No data were qualified based on MS/MSD results. If data were qualified it would be presented in Table D5-2. A summary of the MS/MSD %R data is shown in Table D5-4. The overall accuracy of the analytical results is considered to be acceptable.

A summary of the MS/MSD RPD data are shown in Table D5-4. Four out of 119 MS/MSD RPD values exceeded the laboratory's historical control limits. Because 96 percent of the MS/MSD RPD results and 100 percent of the laboratory duplicate RPD results were within laboratory control limits, the overall variability of the precision measurements are considered to be acceptable.

5.1.1.3 Field Duplicate Samples

FD samples were collected and analyzed as specified in the *QAP* (Section A6.3.5). FD samples are independent samples collected simultaneously or in immediate succession with the original investigative samples such that they are expected to be equally representative of the medium at the time of sampling. These samples provide precision information for the entire measurement system, including sample collection, handling, shipping, storage, preparation, and analysis. The precision of FD pairs was assessed by calculating the RPDs using the equation in Section 2.3. In cases where a target analyte was not detected in either sample or was detected in only one of the samples, an RPD would not be valid, and therefore, was not calculated.

Four groundwater FD samples were collected for the sampling events associated with this report. Table D5-5 lists the original station name from the COC forms (i.e. COC IDs used to disguise the sample's identity when the sample was sent to the laboratory), the parent station name, and the methods analyzed. The results for the FD and associated investigative sample analyses were reviewed to assess the precision of the analytical results based on the magnitude of the RPD values.

Table D5-6 shows the RPDs calculated for the investigative and FD sample pair. The criterion of 50 percent for aqueous samples was used to assess if further evaluation of the data was warranted. Of the 13 field duplicate comparisons, none of the RPD values exceeded the 50 percent criteria. Because none of the field duplicate RPDs exceeded criteria, the overall variability of the precision measurements is considered acceptable.

5.1.1.4 Trip Blanks Analyses

TBs are used to assess the potential introduction of contaminants from sample containers or during the sampling, transportation, and storage procedures (MES, 2013). A TB sample consists of VOC sample vials filled in the laboratory with American Society of Testing and Materials (ASTM) Type II reagent grade water, transported to the sampling site, handled like an environmental sample and returned to the laboratory for analysis. TBs are not opened in the field and are only prepared when aqueous VOC samples are scheduled to be collected and analyzed by the laboratory. Sample results are considered affected by TB contamination when the sample concentration is less than five times the blank concentration (ten times for common laboratory contaminants acetone, methylene chloride, and 2-butanone). Affected sample results less than the reporting limit and less than five times the associated blank concentration are considered non-detects at the reporting limit. Affected sample results greater than the reporting limit and less than five times the blank concentration are considered non-detects at the concentration observed in the sample. Five TBs (three for September 2019, and two for March 2020) were collected and analyzed for the sampling events associated with this report. Detected in the trip blank(s):

- Cis-1,2-Dichloethene and tetrachloroethylene were detected in TB539 collected on 9/26/19. Cis-1,2-Dichloroethene was qualified UB in samples CWM-183-MW04 and CWM-183-MW08. Tetrachloroethylene was UB qualified in samples CWM-183-MW13 and CWM-183-MW04. Samples qualified as considered not detected (UB) are presented in Table 5-2.

Analytes not detected in samples or analytes with concentrations greater than five times the blank concentration were not qualified.

5.1.2 Laboratory Quality Control Procedures and Analyses

Laboratory QC checks include internal system checks and QC samples used to monitor the possible effect of laboratory activities on sample results. The analytical method and method-specific SOPs developed by the laboratory define the types of laboratory QC checks required. QC procedures followed by the laboratory include sample container inspection, COC documentation review, sample holding time review, LCS/LCSD analyses, method blank analyses, and surrogate spike percent recovery evaluation. The laboratories are also responsible for analytical instrument calibration, which includes method-specific criteria for initial and continuing calibrations for external and internal standard calibration procedures.

5.1.2.1 Initial Sample Inspection and Chain-of-Custody Documentation

The laboratory inspected the shipping containers upon receipt and compared the contents with the COC form associated with each cooler. Information from the sample check-in procedure was recorded on the Sample Receipt Form, including sample receipt anomalies. These forms were used by the laboratory to document that sample identifications listed on the COC forms agreed with the samples contained in the coolers. The laboratory verified that COC forms were filled out properly, sample bottles were not broken, the integrity of the Summa® canisters were intact, custody seals were intact, the pH met method-specific criteria for water samples, and cooler temperatures were maintained at 4 ± 2 degrees Celsius. The completed forms are included in the laboratory analytical packages and were reviewed during the data review process. The samples arrived at the laboratory at the proper temperature, and no sample containers were damaged during transit.

MES compared the data on the COC forms with the laboratory reports and documented any differences. If minor discrepancies were found and verified by the laboratory, the laboratory reports and MES electronic databases were corrected. In addition to the COC checks, MES reviewers verified approximately 10 percent of the laboratory hard copy reports against the laboratory electronic data deliverables.

5.1.2.3 Holding Times

Samples were shipped regularly in coordination with the analytical laboratory to ensure analyses were conducted within the required holding times. The time elapsed between sample collection and sample extraction/analysis was calculated as part of the review process to evaluate if holding times were met. Holding time criteria were met for the sampling events associated with this report, therefore, accuracy of the analytical results is acceptable with regards to holding time.

5.1.2.4 Laboratory Control Sample/Laboratory Control Sample Duplicate

The laboratory analyzed LCS/LCSD pairs with each analytical batch of field samples to assess internal precision and accuracy. The LCS and LCSD are spiked with selected target constituents of known concentration. The LCS/LCSD %Rs and RPDs are used to determine laboratory accuracy and precision, respectively. The formulas used to calculate the %Rs and RPDs are presented in Section 2.3. The %Rs and RPDs were then compared to laboratory historical control limits. When the LCS and LCSD %Rs were outside laboratory historical control limits, the LCS/LCSD qualifications were applied to investigative samples within the same analytical batch. Qualifiers were applied only when both the LCS and LCSD %Rs were outside laboratory historical control limits. In cases where only an LCS was analyzed, qualifiers were applied when the LCS %R was outside laboratory historical control limits. Qualifiers were not applied based on LCS/LCSD RPD values, however, the LCS/LCSD RPD values were compared to laboratory historical control limits to assess if further evaluation of the data was warranted. For the sampling events associated with this report, MES reviewed the LCS/LCSD %Rs and RPDs for Methods SW8260B, RSK-175, SW9056, SW9060, SM4500-NH3F, and E350.2. The LCS/LCSDs %Rs met criteria. The LCS/LCSD RPDs met criteria, with the exception of a number of analytes in SW8270C analysis associated with the waste water sample, because LCS and LCSD recoveries met acceptance criteria, no qualifiers were required.

A number of LCS and/or LCSD results were above laboratory developed criteria but were not detected in the associated samples; no data were qualified. Two LCSDs were below criteria but LCS met criteria; no data were qualified.

Table D5-8 shows the LCS/LCSD percent recovery and RPD data. 97 percent of the LCS/LCSD percent recoveries and 100 percent of the all RPD results associated with the groundwater sampling, were within the laboratory control limits, therefore, the overall accuracy and precision measurements are considered to be acceptable.

5.1.2.5 Method Blank Samples

Method blanks are prepared and analyzed by the laboratory to assess the level of background interferences and possible contamination in the analytical system. The method blank must be carried through the complete procedure and contain analyte-free reagents in the same volumes as used in processing the samples. The goal is to conduct investigative sample analysis in such a manner that sample contamination is not introduced by the analytical methods, equipment, or reagents. If such contamination occurs, it is usually identified by the detection of target

analytes at trace or low concentrations in the method blanks. When these detections are found, the laboratory investigates the source, qualifies the affected data as appropriate according to the magnitude of the detections, and implements corrective measures as appropriate. For the sampling events associated with this report, method blanks were prepared and analyzed with each analytical batch for Methods SW8260B, RSK-175, SW9056, SW9060, SM4500-NH3F, and E350.2.

When a VOC target analyte was detected in the sample and associated method blank, affected sample results with concentrations less than five times the blank concentration (ten times for common laboratory contaminant methylene chloride) were qualified as non-detect (UB) at the reporting limit (when the sample concentration was less than the reporting limit) or qualified as non-detect (UB) at the concentration observed in the sample (when the sample concentration was greater than the reporting limit. No analytes were detected in the associated method blanks.

5.1.2.6 Surrogate Recovery

Surrogate spike compounds were added to investigative samples during organic analyses to assess the individual matrix effect of investigative samples and to monitor overall analytical system performance. Surrogate recoveries that are outside the laboratory historical control limits may indicate performance problems with the analytical system and extraction procedures, or significant matrix effects when evaluated in conjunction with the MS/MSD results. MES reviewers used laboratory historical control limits to assess percent recoveries for surrogate spike constituents. For sample results affected by surrogate percent recoveries less than the lower control limit, detects were qualified as estimated (JS) and may be biased low, and non-detects were qualified as estimated (UJS) and may be potential false negatives. For sample results affected by surrogate percent recoveries greater than the upper control limit, detects were qualified as estimated (JS) and may be biased high. No qualifiers are required for non-detect results based on high surrogate recoveries in the groundwater samples. The wastewater sample had one surrogate below acceptance criteria. A summary of the surrogate percent recovery data is provided in Table D5-9. One surrogate was outside acceptance criteria. Surrogate was high, associated analytes were not detected in sample CWM-183-MW19.

5.1.2.7 Internal Standards

Adherence to method-specific internal standards (ISs) criteria ensures that GC/MS sensitivity and response are stable during each analysis. *SW-846* (EPA, 1986) recommended ISs are often brominated, fluorinated, or stable isotopically labeled analogs of specific target compounds, or are closely related compounds whose presence in environmental samples is unlikely. The IS spike solution is added after the preparation or extraction of a sample. ISs are used in internal calibration methods to correct sample results affected by column injection loss, purging loss, or viscosity effects. ISs are added to environmental samples, control standards, and blanks, in accordance with method requirements and laboratory SOPs (MES, 2013). No qualifiers were required for sample results based on the IS data.

5.1.2.8 Initial and Continuing Calibration

The calibration of an analytical instrument involves the delineation of the relationship between the response of the instrument and the concentration of an analyte introduced into the instrument. An ICAL is performed on an analytical instrument prior to the analysis of samples to ensure that the equipment is capable of producing acceptable qualitative and quantitative data. The CCAL is the verification of the ICAL at periodic intervals. The CCAL demonstrates that the instrument is capable of acceptable performance during the course of the analytical analysis. Review of the ICAL data included the evaluation of the correlation coefficients and relative standard deviations. Review of the CCAL data included the evaluation of the percent difference between the concentration of the CCAL standard and the expected concentration. For sample results associated with CCAL data that did not meet method-specific criteria, detects and non-detects were qualified as estimated (JC and UJC, respectively). No qualifiers were required for samples based on ICAL and CCAL data.

5.2 SUMMARY OF DATA QUALITY INDICATORS

A summary of the data quality indicators in terms of the PARCCS are described in this section.

5.2.1 Precision

As discussed in Section 2.3, the precision evaluation included field precision (FDs), laboratory precision (LCS/LCSDs), and combined field/laboratory precision (MS/MSDs). The MS/MSD, FD, and LCS/LCSD RPDs are discussed in Sections 5.1.1.1, 5.1.1.2, and 5.1.2.3 of this report, respectively. Based on this evaluation, the precision of the data is acceptable for its intended use.

5.2.2 Accuracy

As discussed in Section 2.3, the accuracy evaluation included a comparison of spike recoveries from field samples (surrogate and MS/MSD spikes) and laboratory QC samples (LCS and LCSD), and assessing holding time. The MS/MSD, LCS/LCSD, and surrogate spike recoveries are discussed in Sections 5.1.1.1, 5.1.2.3, and 5.1.2.5, respectively, and holding time is discussed in Section 5.1.2.2. Recoveries from MS/MSDs, LCS/LCSD and surrogate percent recoveries were compared to laboratory historical control limits to determine a laboratory's ability to accurately determine both qualitative and quantitative results. The investigative sample results were within the required percent recovery limits, except as noted. The investigative sample results were within the required holding time limits. Based on this evaluation, the accuracy of the data is acceptable for its intended use.

5.2.3 Representativeness

Representativeness is the degree to which the data accurately and precisely portray the environmental conditions being studied. For the sampling events associated with this report, sampling procedures and locations were selected to accurately represent overall Site conditions and were biased toward areas that were likely to exhibit evidence of past releases. Sampling

was conducted using known, approved field procedures to minimize variability introduced during field sampling. The investigative and FD analyses indicate that the overall combined variability introduced by the sampling procedures, sample matrix, and laboratory analysis is acceptable, and the FD samples are representative of the data associated with the investigative sample.

5.2.4 Completeness

Completeness refers to the amount of valid data obtainable from a measurement system compared to the expected amount of data. Data that have not been qualified as rejected during the data validation process are considered to be valid. As presented in the *QAP* (MES, 2013), a completeness goal of 95 percent was established for investigative and field duplicate samples. Of the 864 investigative and field duplicate sample records associated with the September 2019 and February 2020 sampling events, no records were qualified as rejected based on MES' review of the data. Therefore a completeness of 100 percent was calculated which exceeds project goals. One hundred percent of the results are usable or usable as qualified and are acceptable for their intended use.

5.2.5 Comparability

Comparability expresses the confidence with which one data set can be compared to another. Comparability objectives were met by minimizing the number of contract laboratories used, using EPA methods for analyses, and reporting results in standardized units. The comparability objective for the project was fulfilled.

6.0 REPORTING LIMITS AND DATA USES

This section discusses the laboratory reporting limits and how they compare to RBTLs. Chemical-specific RBTLs were established for use as goals to achieve the Corrective Action Objectives at the Site (MES, 2008) using the *Alabama Risk-Based Corrective Action Guidance Manual (ARBCA)* (ADEM, 2008). As per the *ARBCA*, RBTLs were developed based on a 10^{-5} risk. Based on the proposed future land use of the Site (adult educational campus and passive recreation) exposure to the groundskeeper was considered appropriate for the Site.

6.1 LABORATORY REPORTING LIMITS

TestAmerica confirms reporting limits on an annual or quarterly basis by performing MDL studies. The MDL is defined as the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is generated from the analysis of a sample in a given matrix containing the analyte (40 Code of Federal Regulations, Chapter 1, Part 136, Appendix B). The reporting limit is defined as the lowest concentration of the target analyte required to be reported. This value is based on project-specific criteria.

The laboratory reports detections that are below the reporting limit as estimated values by assigning a flag to the analytical result. This flag is assigned because the laboratory cannot accurately quantify analyte concentrations at levels below the reporting limit. For detections in the concentration range between the MDL and the reporting limit, the laboratory is confident of the analyte identification and detection but can only estimate the analyte concentration.

6.2 COMPARISON OF LABORATORY REPORTING LIMITS TO RBTLS

For this assessment, the laboratory RLs and MDLs were compared to the groundskeeper RBTLs, shown in Table D6-1. If a RBTL was not available for comparison, the target analyte was not shown in Table D6-1. The laboratory RLs and MDLs for the investigative samples were less than the groundskeeper RBTLs.

7.0 CONCLUSIONS

This DQS presents in specific terms the QA and QC practices used to achieve the project objectives for the Site during the September and December 2018 and March 2019 sampling events. Samples were collected and analyzed in accordance with EPA methods and using laboratory-specific QA/QC procedures. These procedures were followed to generate legally and technically defensible data.

Some of the quality issues addressed in Section 5.0 of this report resulted in qualification of investigative sample results. The data were acceptable with the following qualifications:

- Four sample results were qualified based on a blank (Table D5-2).

Based on this review, the analytical data generated for the sampling events associated with this report are adequate to fulfill program objectives and may be used to evaluate the effectiveness of the selected remedy for the Site.

8.0 REFERENCES

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TABLES

Table D5-1: Sample Index
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
September 2019 Sampling Event								
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW03	NS	WG	9/23/19	TALSAV	680-174487-1	680-174487-2	E350.1
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW03	NS	WG	9/23/19	TALSAV	680-174487-1	680-174487-2	SW9056A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW15	NS	WG	9/23/19	TALSAV	680-174487-1	680-174487-3	E350.1
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW15	NS	WG	9/23/19	TALSAV	680-174487-1	680-174487-3	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW15	NS	WG	9/23/19	TALSAV	680-174487-1	680-174487-3	SW9056A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW15	MSD	WG	9/23/19	TALSAV	680-174487-1	680-174487-3 MSD	SW9056A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW15	MS	WG	9/23/19	TALSAV	680-174487-1	680-174487-3 MS	SW9056A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW17	NS	WG	9/23/19	TALSAV	680-174487-1	680-174487-1	SW8260B
PARCEL 183(6), TRAINING AREA T6	TRIP BLANK (TB538)	TB	W	9/23/19	TALSAV	680-174487-1	680-174487-4	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW16	NS	WG	9/24/19	TALSAV	680-174693-1	680-174693-6	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW28	NS	WG	9/24/19	TALSAV	680-174693-1	680-174693-9	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW28	FD	WG	9/24/19	TALSAV	680-174693-1	680-174693-15	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW31	NS	WG	9/24/19	TALSAV	680-174693-1	680-174693-13	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW06	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-12	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW06	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-12	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW06	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-12	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW08	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-1	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	FD	WG	9/25/19	TALSAV	680-174693-1	680-174693-14	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-5	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW19	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-4	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW20	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-2	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW25	NS	WG	9/25/19	TALSAV	680-174693-1	680-174693-3	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-16	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-16	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-16	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-10	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-10	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-10	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MSD	WG	9/26/19	TALSAV	680-174693-1	680-174693-10 MSD	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MSD	WG	9/26/19	TALSAV	680-174693-1	680-174693-10 MSD	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MS	WG	9/26/19	TALSAV	680-174693-1	680-174693-10 MS	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MS	WG	9/26/19	TALSAV	680-174693-1	680-174693-10 MS	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW23	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-11	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW23	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-11	SW8260B

Table D5-1: Sample Index
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW23	NS	WG	9/26/19	TALSAV	680-174693-1	680-174693-11	SW9060A
MCCLELLAN FIELD QC	TRIP BLANK (TB539)	TB	W	9/26/19	TALSAV	680-174693-1	680-174693-17	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	NS	WG	10/2/19	TALSAV	680-174926-1	680-174926-1	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	NS	WG	10/2/19	TALSAV	680-174926-1	680-174926-1	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW21	NS	WG	10/2/19	TALSAV	680-174926-1	680-174926-2	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW22	FD	WG	10/2/19	TALSAV	680-174926-1	680-174926-4	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW22	NS	WG	10/2/19	TALSAV	680-174926-1	680-174926-3	SW8260B
MCCLELLAN FIELD QC	TRIP BLANK (TB540)	TB	W	10/2/19	TALSAV	680-174926-1	680-174926-5	SW8260B
March 2020 Sampling Event								
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW19	NS	WG	3/17/20	TALSAV	680-181793-1	680-181793-5	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW19	FD	WG	3/17/20	TALSAV	680-181793-1	680-181793-13	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW25	NS	WG	3/17/20	TALSAV	680-181793-1	680-181793-6	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW28	NS	WG	3/17/20	TALSAV	680-181793-1	680-181793-8	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW31	NS	WG	3/17/20	TALSAV	680-181793-1	680-181793-7	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	FD	WG	3/18/20	TALSAV	680-181793-1	680-181793-12	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	FD	WG	3/18/20	TALSAV	680-181793-1	680-181793-12	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	FD	WG	3/18/20	TALSAV	680-181793-1	680-181793-12	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-11	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-11	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW04	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-11	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-15	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-15	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-15	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MSD	WG	3/18/20	TALSAV	680-181793-1	680-181793-15 MSD	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MSD	WG	3/18/20	TALSAV	680-181793-1	680-181793-15 MSD	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MSD	WG	3/18/20	TALSAV	680-181793-1	680-181793-15 MSD	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MS	WG	3/18/20	TALSAV	680-181793-1	680-181793-15 MS	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MS	WG	3/18/20	TALSAV	680-181793-1	680-181793-15 MS	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW13	MS	WG	3/18/20	TALSAV	680-181793-1	680-181793-15 MS	SW9060A
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW15	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-4	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW16	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-1	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW17	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-3	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW20	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-2	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW21	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-10	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW22	NS	WG	3/18/20	TALSAV	680-181793-1	680-181793-9	SW8260B

Table D5-1: Sample Index
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Site Name	Station Name	QC Code	Matrix	Sample Date	Lab	Delivery Group	Laboratory Sample ID	Method
MCCLELLAN FIELD QC	TRIP BLANK (TB548)	TB	WG	3/18/20	TALSAV	680-181793-1	680-181793-14	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW06	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-2	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW06	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-2	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW06	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-2	SW9060
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW07	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-4	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW07	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-4	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW07	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-4	SW9060
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW08	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-3	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW09	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-5	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW09	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-5	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW09	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-5	SW9060
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-1	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-1	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW11	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-1	SW9060
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW23	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-6	RSK-175
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW23	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-6	SW8260B
PARCEL 183(6), TRAINING AREA T6	CWM-183-MW23	NS	WG	3/19/20	TALSAV	680-181865-1	680-181865-6	SW9060
MCCLELLAN FIELD QC	TRIP BLANK (TB549)	TB	W	3/19/20	TALSAV	680-181865-1	680-181865-7	SW8260B

Notes:
FD = Field duplicate
ID = Identification
MS = Matrix spike
MSD = Matrix spike duplicate
NS = Normal sample
QC = Quality Control
TALSAV = TestAmerica Laboratories, Savvanah, Georgia
TB = Trip blank
W = Water
WG = Groundwater

Table D5-2: Summary of Final Qualifiers
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Matrix	Delivery Group	Station Name	QC Code	Sample Date	Lab ID	Method	Parameter Name	Value	Lab Flag	Validation Code	Units
WG	680-174693-1	CWM-183-MW13	NS	9/26/19	680-174693-10	SW8260B	Tetrachloroethylene	7.2	B	UB	µg/L
WG	680-174693-1	CWM-183-MW04	NS	9/26/19	680-174693-16	SW8260B	cis-1,2-dicloroethene	1.8	B	UB	µg/L
WG	680-174693-1	CWM-183-MW04	NS	9/26/19	680-174693-16	SW8260B	Tetrachloroethylene	1.8	B	UB	µg/L
WG	680-174693-1	CWM-183-MW08	NS	9/26/19	680-174693-1	SW8260B	cis-1,2-dichloroethene	1	U^	UB	µg/L

Notes:
µg/L = micrograms per liter
NS = Normal sample
QC = Quality Control
WG = Groundwater

Lab Flags:
B = Analyte detected in an associated blank.
U^ = Analyte is not detected above the RL; lab flag updated by MES data reviewer.

Validation Qualifiers :
UB = Analyte considered not detected based on concentration in an associated blank..

Table D5-3: Qualified Data Summary
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Lab	QC Code	Matrix	Method	Non-Qualified Results	UB
TALSAV	FD	WG	4500 NH3 G-2011	1	
TALSAV	FD	WG	RSK-175	9	
TALSAV	FD	WG	SW8260B	89	
TALSAV	FD	WG	SW9056A	2	
TALSAV	FD	WG	SW9060	6	
TALSAV	NS	WG	350.1-1993 R2.0	4	
TALSAV	NS	WG	4500 NH3 G-2011	3	
TALSAV	NS	WG	RSK-175	45	
TALSAV	NS	WG	SW8260B	657	4
TALSAV	NS	WG	SW9056A	14	
TALSAV	NS	WG	SW9060	30	

Notes:
FD = Field duplicate
NS = Normal sample
TALSAV = TestAmerica, Savannah, Georgia
WG = Ground water
JM = Data is considered estimated based on MS/MSD recoveries outside criteria.
JS = Data is considered estimated based on surrogate recoveries outside criteria.

Table D5-4: Summary of MS/MSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
CWM-183-MW13	WG	3/18/20	680-181793-1	RSK-175	Ethane	91	85	75	125	6.8	20
CWM-183-MW13	WG	3/18/20	680-181793-1	RSK-175	Ethene	90	84	75	125	6.9	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Ethylbenzene	97	106	80	120	8.9	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Iodomethane	66	98	15	162	**39**	30
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Methylene Chloride	83	92	76	129	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Mtbe	87	99	74	135	13	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Styrene	96	107	80	122	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Tetrachloroethylene	91	102	77	123	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Toluene	92	103	80	122	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Trans-1,2-Dichloroethene	95	108	78	123	13	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Trichloroethene	**-132**	**370**	80	123	**422**	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Trichlorofluoromethane	98	110	58	145	12	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Vinyl Acetate	100	114	15	190	13	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Vinyl Chloride	93	101	68	132	8.2	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Xylenes (Total)	95	105	80	120	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW9060A	Total Organic Carbon	97	98	80	120	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1,1,2-Tetrachloroethane	107	105	80	120	1.9	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1,1-Trichloroethane	103	100	74	128	3.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1,2,2-Tetrachloroethane	96	99	72	128	3.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1,2-Trichloroethane	99	97	79	125	2.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1-Dichloroethane	94	92	80	120	2.2	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1-Dichloroethene	106	92	74	125	14	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,1-Dichloropropene	92	91	78	127	1.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2,3-Trichlorobenzene	95	85	61	151	11	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2,3-Trichloropropane	110	111	70	132	0.9	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2,4-Trichlorobenzene	94	83	77	131	12	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2,4-Trimethylbenzene	97	94	80	124	3.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2-Dibromo-3-Chloropropane	100	93	72	133	7.3	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2-Dibromoethane	110	108	77	131	1.8	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2-Dichlorobenzene	98	97	80	120	1.0	15
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2-Dichloroethane	100	97	75	130	3.0	20

Table D5-4: Summary of MS/MSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,2-Dichloropropane	93	92	80	123	1.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,3,5-Trimethylbenzene	96	93	80	120	3.2	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,3-Dichlorobenzene	98	97	80	120	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,3-Dichloropropane	99	98	78	127	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	1,4-Dichlorobenzene	101	100	80	120	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	2,2-Dichloropropane	78	76	72	133	2.6	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	2-Butanone (MEK)	109	115	75	133	5.4	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	2-Chlorotoluene	99	96	77	121	3.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	2-Hexanone	103	107	70	141	3.8	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	4-Chlorotoluene	99	96	80	120	3.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	(MIBK)	101	105	70	141	3.9	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Acetone	98	90	60	140	8.5	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Benzene	96	93	73	131	3.2	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Bromobenzene	112	109	79	124	2.7	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Bromochloromethane	102	101	77	122	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Bromodichloromethane	96	94	77	129	2.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Bromoform	112	114	69	135	1.8	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Bromomethane	106	99	20	180	6.8	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Carbon Disulfide	94	81	73	127	15	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Carbon Tetrachloride	96	96	75	130	0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Chlorobenzene	106	104	80	120	1.9	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Chloroethane	122	103	50	151	17	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Chloroform	101	98	79	122	3.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Chloromethane	103	87	63	126	17	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Cis-1,2-Dichloroethene	105	104	80	122	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Cis-1,3-Dichloropropene	89	88	80	133	1.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Dibromochloromethane	105	101	71	136	3.9	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Dibromomethane	105	105	80	122	0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Dichlorodifluoromethane	99	83	80	120	18	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Ethylbenzene	102	101	80	120	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Hexachlorobutadiene	88	**76**	77	129	15	20

Table D5-4: Summary of MS/MSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Isopropyl Benzene (Cumene)	101	98	80	120	3.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	m,p-Xylene	98	98	80	120	0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Methylene Chloride	102	101	76	129	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Mtbe	101	101	74	135	0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Naphthalene	96	86	69	148	11	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	N-Butylbenzene	81	80	78	124	1.2	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	N-Propylbenzene	97	95	80	120	2.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	O-Xylene	101	99	80	120	2.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	P-Isopropyltoluene (Cymene)	86	83	80	120	3.6	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Sec-Butylbenzene	92	89	76	125	3.3	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Styrene	102	100	80	122	2.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Tert-Butylbenzene	92	89	80	120	3.3	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Tetrachloroethylene	107	106	77	123	0.9	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Toluene	101	100	80	122	1.0	15
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Trans-1,2-Dichloroethene	101	96	78	123	5.1	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Trans-1,3-Dichloropropene	86	83	78	127	3.6	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Trichloroethene	108	111	80	123	2.7	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Trichlorofluoromethane	117	114	58	145	2.6	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Vinyl Acetate	110	108	15	190	1.8	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Vinyl Chloride	97	75	68	132	**26**	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW8260B	Xylenes (Total)	99	98	80	120	1.0	20
CWM-183-MW13	WG	9/26/19	680-174693-1	SW9060A	Total Organic Carbon	96	96	86	121	0	20
CWM-183-MW15	WG	9/23/19	680-174487-1	SW9056A	Nitrate-N	99	100	80	120	1.0	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,1,1,2-Tetrachloroethane	97	107	80	120	9.8	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,1,1-Trichloroethane	95	107	74	128	12	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,1,2,2-Tetrachloroethane	93	108	72	128	15	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,1,2-Trichloroethane	89	101	79	125	13	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,1-Dichloroethane	95	104	80	120	9.0	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,1-Dichloroethene	95	108	74	125	13	20

Table D5-4: Summary of MS/MSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,2,3-Trichloropropane	88	103	70	132	16	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Chloropropane	89	109	59	141	**20**	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,2-Dibromoethane	88	101	77	131	14	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,2-Dichlorobenzene	91	103	80	120	12	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,2-Dichloroethane	88	99	75	130	12	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,2-Dichloropropane	92	102	80	123	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,3-Dichloropropane	88	99	78	127	12	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	1,4-Dichlorobenzene	90	100	80	120	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	2-Butanone (MEK)	87	100	80	131	14	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	2-Hexanone	88	102	70	141	15	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	4-Methyl-2-Pentanone (MIBK)	88	101	75	135	14	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Acetone	81	93	60	154	14	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Acrylonitrile	84	96	72	132	13	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Benzene	93	103	73	131	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Bromochloromethane	89	99	77	122	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Bromodichloromethane	91	102	77	129	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Bromoform	95	109	69	135	14	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Bromomethane	161	**193**	20	180	18	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Carbon Disulfide	95	106	73	127	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Carbon Tetrachloride	97	107	75	130	9.8	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Chlorobenzene	94	104	80	120	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Chloroethane	126	141	50	151	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Chloroform	93	103	79	122	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Chloromethane	91	101	63	126	10	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Cis-1,2-Dichloroethene	83	103	80	122	**22**	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Cis-1,3-Dichloropropene	91	103	80	133	12	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Dibromochloromethane	91	102	71	136	11	20
CWM-183-MW13	WG	3/18/20	680-181793-1	SW8260B	Dibromomethane	87	98	80	122	12	20

Notes:
%R = Percent recovery
LCL = Lower control limit

Table D5-4: Summary of MS/MSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	MS %R	MSD %R	%R LCL	%R UCL	RPD	RPD Limit

UCL = Upper control limit
MS = Matrix spike
MSD = Matrix spike duplicate
NA = Not applicable
RPD = Relative percent difference
WG = Groundwater

Value is less than the LCL.

Value is greater than the UCL or RPD Limit.

Table D5-5: Field Duplicate Cross Reference
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Matrix	COC ID	Parent Station Name	Sample Date	Delivery Group	Method
WG	DUP330	CWM-183-MW28	9/24/19	680-174693-1	SW8260B
WG	DUP #329	CWM-183-MW11	9/25/19	680-174693-1	SW9060A
WG	DUP #331	CWM-183-MW22	10/2/19	680-174926-1	SW8260B
WG	DUP342	CWM-183-MW19	3/17/20	680-181793-1	SW8260B
WG	DUP341	CWM-183-MW04	3/18/20	680-181793-1	RSK-175
WG	DUP341	CWM-183-MW04	3/18/20	680-181793-1	SW8260B
WG	DUP341	CWM-183-MW04	3/18/20	680-181793-1	SW9060A

Notes:
COC = Chain-of-Custody
ID = Identification
WG = Groundwater

Table D5-6: Comparison of Investigative and Field Duplicate Sample Detections
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Matrix	Sample Date	Delivery Group	Method	Parameter Name	FD Value	FD Lab Flag	NS Value	NS Lab Flag	Units	RPD	MDL	RL
CWM-183-MW11	WG	9/25/19	680-174693-1	SW9060A	Total Organic Carbon	2.8		3.6		mg/L	25	0.5	1
CWM-183-MW22	WG	10/2/19	680-174926-1	SW8260B	1,1-Dichloroethene	0.51	J	0.64	J	µg/L	22.61	0.36	1
CWM-183-MW22	WG	10/2/19	680-174926-1	SW8260B	Cis-1,2-Dichloroethene	100		96		µg/L	4.082	0.41	1
CWM-183-MW22	WG	10/2/19	680-174926-1	SW8260B	Trans-1,2-Dichloroethene	3.1		3.1		µg/L	0	0.37	1
CWM-183-MW22	WG	10/2/19	680-174926-1	SW8260B	Trichloroethene	19		19		µg/L	0	0.48	1
CWM-183-MW22	WG	10/2/19	680-174926-1	SW8260B	Vinyl Chloride	35		39		µg/L	11	0.5	1
CWM-183-MW04	WG	3/18/20	680-181793-1	RSK-175	Methane	85		77		µg/L	9.877	0.29	0.58
CWM-183-MW04	WG	3/18/20	680-181793-1	SW8260B	1,1,2,2-Tetrachloroethane	1.1		1.6		µg/L	37.04	0.62	1
CWM-183-MW04	WG	3/18/20	680-181793-1	SW8260B	Cis-1,2-Dichloroethene	3.3		4.2		µg/L	24	0.41	1
CWM-183-MW04	WG	3/18/20	680-181793-1	SW8260B	Trans-1,2-Dichloroethene	1.6		1.7		µg/L	6.061	0.37	1
CWM-183-MW04	WG	3/18/20	680-181793-1	SW8260B	Trichloroethene	0.81	J	1		µg/L	20.99	0.48	1
CWM-183-MW04	WG	3/18/20	680-181793-1	SW8260B	Vinyl Chloride	3.8		4		µg/L	5.128	0.5	1
CWM-183-MW04	WG	3/18/20	680-181793-1	SW9060A	Total Organic Carbon	2.5		2.4		mg/L	4.082	0.5	1

Notes:

Value is greater than the RPD Limit.

FD = Field duplicate
MDL = Method detection limit
µg/L = micrograms per liter
mg/L = milligrams per liter
NS = Normal sample
RL = Reporting limit
RPD = Relative percent difference
TOC = Total Organic Carbon
WG = Groundwater

Lab Flag:

J = Estimated value. The analyte is positively identified and the concentration is less than the RL, but greater than the MDL.

Table D5-7: Summary of Field Quality Control Blank Sample Detections
Training Area T-6 and Cane Creek Training Area
McClellan, Anniston, Alabama

Station Name	QC Code	Matrix	Sample Date	Delivery Group	Method	Parameter Name	Value	Lab Flag	Units	MDL	RL
TRIP BLANK (TB539)	TB	W	9/26/19	680-174693-1	SW8260B	Cis-1,2-Dichloroethene	0.49	J B	µg/L	0.41	1
TRIP BLANK (TB539)	TB	W	9/26/19	680-174693-1	SW8260B	Tetrachloroethylene	1.5	B	µg/L	0.74	1

Notes:
EB = Equipment blank
MDL = Method detection limit
µg/L = micrograms per liter
mg/L = milligrams per liter
QC = Quality Control
RL = Reporting limit
W = Water

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
RSK-175	680-174693-1	10/4/19	680-589210	W	Ethane	94	99	75	125	5.18	30
RSK-175	680-174693-1	10/4/19	680-589210	W	Ethene	96	101	75	125	5.08	30
RSK-175	680-174693-1	10/4/19	680-589210	W	Methane	100	106	75	125	5.83	30
RSK-175	680-174693-1	10/4/19	680-589210	W	Methane	102	99	75	125	2.99	30
RSK-175	680-174693-1	10/9/19	680-590030	W	Ethane	87	92	75	125	5.59	30
RSK-175	680-174693-1	10/9/19	680-590030	W	Ethene	89	94	75	125	5.46	30
RSK-175	680-174693-1	10/9/19	680-590030	W	Methane	94	99	75	125	5.18	30
RSK-175	680-174693-1	10/9/19	680-590030	W	Methane	101	100	75	125	1	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Ethane	96	93	75	125	3.17	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Ethane	98	101	75	125	3.02	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Ethene	99	96	75	125	3.08	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Ethene	100	103	75	125	2.96	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Methane	104	101	75	125	2.93	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Methane	105	104	75	125	0.96	30
RSK-175	680-174693-1	10/10/19	680-590251	W	Methane	105	107	75	125	1.89	30
RSK-175	680-174926-1	10/11/19	680-590474	W	Ethane	97	99	75	125	2.04	30
RSK-175	680-174926-1	10/11/19	680-590474	W	Ethene	99	100	75	125	1.01	30
RSK-175	680-174926-1	10/11/19	680-590474	W	Methane	102	104	75	125	1.94	30
RSK-175	680-174926-1	10/11/19	680-590474	W	Methane	104	103	75	125	0.97	30
RSK-175	680-181793-1/680-181865-1	3/27/20	680-612826	W	Ethane	99	98	75	125	1.02	30
RSK-175	680-181793-1/680-181865-1	3/27/20	680-612826	W	Ethene	99	99	75	125	0	30
RSK-175	680-181793-1/680-181865-1	3/27/20	680-612826	W	Methane	89	94	75	125	5.46	30
RSK-175	680-181793-1/680-181865-1	3/27/20	680-612826	W	Methane	98	98	75	125	0	30
RSK-175	680-181865-1	3/26/20	680-612632	W	Ethane	98	95	75	125	3.11	30
RSK-175	680-181865-1	3/26/20	680-612632	W	Ethene	98	95	75	125	3.11	30
RSK-175	680-181865-1	3/26/20	680-612632	W	Methane	97	94	75	125	3.14	30
RSK-175	680-181865-1	3/26/20	680-612632	W	Methane	111	94	75	125	16.6	30
RSK-175	680-181865-1	3/30/20	680-613175	W	Ethane	94	93	75	125	1.07	30
RSK-175	680-181865-1	3/30/20	680-613175	W	Ethene	93	94	75	125	1.07	30
RSK-175	680-181865-1	3/30/20	680-613175	W	Methane	94	94	75	125	0	30
RSK-175	680-181865-1	3/30/20	680-613175	W	Methane	99	102	75	125	2.99	30
SW8260B	680-174487-1	10/3/19	680-589008	W	1,1,2,2-Tetrachloroethane	95	94	80	120	1.06	20
SW8260B	680-174487-1	10/3/19	680-589008	W	1,1,2-Trichloroethane	93	95	80	120	2.13	20
SW8260B	680-174487-1	10/3/19	680-589008	W	1,1-Dichloroethene	88	95	76	120	7.65	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174487-1	10/3/19	680-589008	W	1,2-Dichloroethane	96	97	80	120	1.04	50
SW8260B	680-174487-1	10/3/19	680-589008	W	Chloroethane	103	107	66	135	3.81	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Chloroform	99	100	80	120	1.01	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Chloromethane	81	100	69	131	21	30
SW8260B	680-174487-1	10/3/19	680-589008	W	Cis-1,2-Dichloroethene	94	98	80	120	4.17	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Methylene Chloride	96	98	80	120	2.06	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Tetrachloroethylene	108	109	80	121	0.92	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Trans-1,2-Dichloroethene	97	99	80	120	2.04	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Trichloroethene	100	101	80	120	1	20
SW8260B	680-174487-1	10/3/19	680-589008	W	Vinyl Chloride	80	97	71	128	19.2	20
SW8260B	680-174487-1	10/4/19	680-589234	W	1,1,2,2-Tetrachloroethane	**126**	112	80	120	11.8	20
SW8260B	680-174487-1	10/4/19	680-589234	W	1,1,2-Trichloroethane	93	100	80	120	7.25	20
SW8260B	680-174487-1	10/4/19	680-589234	W	1,1-Dichloroethene	106	106	76	120	0	20
SW8260B	680-174487-1	10/4/19	680-589234	W	1,2-Dichloroethane	100	97	80	120	3.05	50
SW8260B	680-174487-1	10/4/19	680-589234	W	Chloroethane	125	117	66	135	6.61	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Chloroform	106	102	80	120	3.85	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Chloromethane	112	109	69	131	2.71	30
SW8260B	680-174487-1	10/4/19	680-589234	W	Cis-1,2-Dichloroethene	102	106	80	120	3.85	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Methylene Chloride	116	115	80	120	0.87	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Tetrachloroethylene	95	101	80	121	6.12	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Trans-1,2-Dichloroethene	104	112	80	120	7.41	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Trichloroethene	110	107	80	120	2.76	20
SW8260B	680-174487-1	10/4/19	680-589234	W	Vinyl Chloride	125	122	71	128	2.43	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1,1,2-Tetrachloroethane	95	96	80	121	1.05	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1,1-Trichloroethane	97	106	80	120	8.87	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1,2,2-Tetrachloroethane	102	103	80	120	0.98	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1,2-Trichloroethane	103	107	80	120	3.81	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1-Dichloroethane	101	105	80	120	3.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1-Dichloroethene	95	107	76	120	11.9	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,1-Dichloropropene	99	109	80	120	9.62	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2,3-Trichlorobenzene	103	106	61	141	2.87	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2,3-Trichloropropane	100	99	80	123	1.01	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2,4-Trichlorobenzene	103	108	68	128	4.74	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2,4-Trimethylbenzene	119	**127**	80	120	6.5	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2-Dibromo-3-Chloropropane	98	102	71	134	4	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2-Dibromoethane	100	105	80	120	4.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2-Dichlorobenzene	101	105	80	120	3.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2-Dichloroethane	103	105	80	120	1.92	50
SW8260B	680-174693-1	10/5/19	680-589432	W	1,2-Dichloropropane	101	107	80	120	5.77	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,3,5-Trimethylbenzene	100	106	80	120	5.83	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,3-Dichlorobenzene	100	105	80	120	4.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,3-Dichloropropane	102	106	80	120	3.85	20
SW8260B	680-174693-1	10/5/19	680-589432	W	1,4-Dichlorobenzene	99	103	80	120	3.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	2,2-Dichloropropane	103	110	20	126	6.57	20
SW8260B	680-174693-1	10/5/19	680-589432	W	2-Butanone (MEK)	99	103	80	131	3.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	2-Chlorotoluene	100	104	80	120	3.92	20
SW8260B	680-174693-1	10/5/19	680-589432	W	2-Hexanone	99	104	74	127	4.93	20
SW8260B	680-174693-1	10/5/19	680-589432	W	4-Chlorotoluene	100	105	80	120	4.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	4-Methyl-2-Pentanone (MIBK)	101	104	76	124	2.93	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Acetone	100	106	70	135	5.83	30
SW8260B	680-174693-1	10/5/19	680-589432	W	Benzene	100	107	80	120	6.76	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Bromobenzene	100	103	80	121	2.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Bromochloromethane	99	103	80	120	3.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Bromodichloromethane	102	107	80	120	4.78	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Bromoform	98	100	74	126	2.02	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Bromomethane	94	95	62	130	1.06	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Carbon Disulfide	97	105	80	120	7.92	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Carbon Tetrachloride	96	108	76	123	11.8	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Chlorobenzene	98	101	80	120	3.02	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Chloroethane	102	112	66	135	9.35	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Chloroform	101	107	80	120	5.77	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Chloromethane	91	99	69	131	8.42	30
SW8260B	680-174693-1	10/5/19	680-589432	W	Cis-1,2-Dichloroethene	101	107	80	120	5.77	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Cis-1,3-Dichloropropene	101	106	80	120	4.83	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Dibromochloromethane	99	103	80	121	3.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Dibromomethane	102	105	47	155	2.9	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Dichlorodifluoromethane	88	100	47	155	12.8	40

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/5/19	680-589432	W	Ethylbenzene	99	105	80	120	5.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Hexachlorobutadiene	103	112	60	140	8.37	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Isopropyl Benzene (Cumene)	99	105	80	120	5.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	m,p-Xylene	99	103	80	120	3.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Methylene Chloride	94	99	80	120	5.18	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Mtbe	98	103	80	120	4.98	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Naphthalene	101	104	59	140	2.93	20
SW8260B	680-174693-1	10/5/19	680-589432	W	N-Butylbenzene	102	110	80	120	7.55	20
SW8260B	680-174693-1	10/5/19	680-589432	W	N-Propylbenzene	100	107	80	120	6.76	20
SW8260B	680-174693-1	10/5/19	680-589432	W	O-Xylene	99	103	80	120	3.96	20
SW8260B	680-174693-1	10/5/19	680-589432	W	P-Isopropyltoluene (Cymene)	101	109	80	120	7.62	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Sec-Butylbenzene	101	108	80	120	6.7	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Styrene	100	105	80	120	4.88	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Tert-Butylbenzene	97	105	80	121	7.92	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Tetrachloroethylene	94	102	80	121	8.16	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Toluene	100	108	80	113	7.69	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Trans-1,2-Dichloroethene	99	106	80	120	6.83	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Trans-1,3-Dichloropropene	104	107	80	120	2.84	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Trichloroethene	98	104	80	120	5.94	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Trichlorofluoromethane	97	108	60	141	10.7	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Vinyl Acetate	105	107	67	135	1.89	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Vinyl Chloride	98	108	71	128	9.71	20
SW8260B	680-174693-1	10/5/19	680-589432	W	Xylenes (Total)	99	103	80	120	3.96	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1,1,2-Tetrachloroethane	95	93	80	121	2.13	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1,1-Trichloroethane	92	95	80	120	3.21	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1,2,2-Tetrachloroethane	89	89	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1,2-Trichloroethane	91	91	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1-Dichloroethane	88	90	80	120	2.25	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1-Dichloroethene	94	99	76	120	5.18	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,1-Dichloropropene	90	93	80	120	3.28	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2,3-Trichlorobenzene	93	95	61	141	2.13	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2,3-Trichloropropane	81	81	80	123	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2,4-Trichlorobenzene	96	97	68	128	1.04	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2,4-Trimethylbenzene	95	98	80	120	3.11	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2-Dibromo-3-Chloropropane	78	79	71	134	1.27	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2-Dibromoethane	88	89	80	120	1.13	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2-Dichlorobenzene	97	97	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2-Dichloroethane	87	86	80	120	1.16	50
SW8260B	680-174693-1	10/7/19	680-589584	W	1,2-Dichloropropane	89	89	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,3,5-Trimethylbenzene	95	97	80	120	2.08	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,3-Dichlorobenzene	99	97	80	120	2.04	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,3-Dichloropropane	90	89	80	120	1.12	20
SW8260B	680-174693-1	10/7/19	680-589584	W	1,4-Dichlorobenzene	95	96	80	120	1.05	20
SW8260B	680-174693-1	10/7/19	680-589584	W	2,2-Dichloropropane	93	95	76	126	2.13	20
SW8260B	680-174693-1	10/7/19	680-589584	W	2-Butanone (MEK)	78	78	75	131	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	2-Chlorotoluene	96	97	80	120	1.04	20
SW8260B	680-174693-1	10/7/19	680-589584	W	2-Hexanone	79	81	74	127	2.5	20
SW8260B	680-174693-1	10/7/19	680-589584	W	4-Chlorotoluene	94	96	80	120	2.11	20
SW8260B	680-174693-1	10/7/19	680-589584	W	4-Methyl-2-Pentanone (MIBK)	78	79	76	124	1.27	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Acetone	91	91	70	135	0	30
SW8260B	680-174693-1	10/7/19	680-589584	W	Benzene	95	95	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Bromobenzene	97	96	80	121	1.04	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Bromochloromethane	88	90	80	120	2.25	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Bromodichloromethane	94	95	80	120	1.06	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Bromoform	93	90	74	126	3.28	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Bromomethane	99	104	62	130	4.93	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Carbon Disulfide	92	95	80	120	3.21	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Carbon Tetrachloride	93	97	76	123	4.21	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Chlorobenzene	98	98	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Chloroethane	91	94	66	135	3.24	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Chloroform	91	92	80	120	1.09	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Chloromethane	86	91	69	131	5.65	30
SW8260B	680-174693-1	10/7/19	680-589584	W	Cis-1,2-Dichloroethene	88	89	80	120	1.13	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Cis-1,3-Dichloropropene	93	93	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Dibromochloromethane	94	94	80	121	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Dibromomethane	83	84	80	120	1.2	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Dichlorodifluoromethane	97	109	47	155	11.7	40
SW8260B	680-174693-1	10/7/19	680-589584	W	Ethylbenzene	98	98	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Hexachlorobutadiene	95	101	60	140	6.12	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Isopropyl Benzene (Cumene)	97	99	80	120	2.04	20
SW8260B	680-174693-1	10/7/19	680-589584	W	m,p-Xylene	97	98	80	120	1.03	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/7/19	680-589584	W	Methylene Chloride	94	93	80	120	1.07	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Mtbe	87	86	80	120	1.16	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Naphthalene	84	87	59	140	3.51	20
SW8260B	680-174693-1	10/7/19	680-589584	W	N-Butylbenzene	100	105	80	120	4.88	20
SW8260B	680-174693-1	10/7/19	680-589584	W	N-Propylbenzene	96	100	80	120	4.08	20
SW8260B	680-174693-1	10/7/19	680-589584	W	O-Xylene	98	98	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	P-Isopropyltoluene (Cymene)	99	100	80	120	1.01	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Sec-Butylbenzene	97	101	80	120	4.04	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Styrene	99	99	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Tert-Butylbenzene	96	98	80	121	2.06	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Tetrachloroethylene	93	97	80	121	4.21	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Toluene	94	96	80	113	2.11	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Trans-1,2-Dichloroethene	89	90	80	120	1.12	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Trans-1,3-Dichloropropene	93	93	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Trichloroethene	94	96	80	120	2.11	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Trichlorofluoromethane	93	97	60	141	4.21	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Vinyl Acetate	93	92	67	135	1.08	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Vinyl Chloride	92	94	71	128	2.15	20
SW8260B	680-174693-1	10/7/19	680-589584	W	Xylenes (Total)	98	98	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1,1,2-Tetrachloroethane	94	96	80	121	2.11	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1,1-Trichloroethane	104	103	80	120	0.97	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1,2,2-Tetrachloroethane	101	100	80	120	1	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1,2-Trichloroethane	105	101	80	120	3.88	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1-Dichloroethane	105	103	80	120	1.92	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1-Dichloroethene	104	107	76	120	2.84	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,1-Dichloropropene	106	106	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2,3-Trichlorobenzene	99	101	61	141	2	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2,3-Trichloropropane	96	96	80	123	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2,4-Trichlorobenzene	99	102	68	128	2.99	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2,4-Trimethylbenzene	**121**	**125**	80	120	3.25	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2-Dibromo-3-Chloropropane	93	95	71	134	2.13	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2-Dibromoethane	102	98	80	120	4	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2-Dichlorobenzene	99	101	80	120	2	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2-Dichloroethane	103	100	80	120	2.96	50
SW8260B	680-174693-1	10/7/19	680-589587	W	1,2-Dichloropropane	104	102	80	120	1.94	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,3,5-Trimethylbenzene	102	105	80	120	2.9	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/7/19	680-589587	W	1,3-Dichlorobenzene	99	101	80	120	2	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,3-Dichloropropane	103	100	80	120	2.96	20
SW8260B	680-174693-1	10/7/19	680-589587	W	1,4-Dichlorobenzene	97	100	80	120	3.05	20
SW8260B	680-174693-1	10/7/19	680-589587	W	2,2-Dichloropropane	111	110	76	126	0.9	20
SW8260B	680-174693-1	10/7/19	680-589587	W	2-Butanone (MEK)	100	96	80	131	4.08	20
SW8260B	680-174693-1	10/7/19	680-589587	W	2-Chlorotoluene	100	103	80	120	2.96	20
SW8260B	680-174693-1	10/7/19	680-589587	W	2-Hexanone	98	95	74	127	3.11	20
SW8260B	680-174693-1	10/7/19	680-589587	W	4-Chlorotoluene	101	103	80	120	1.96	20
SW8260B	680-174693-1	10/7/19	680-589587	W	4-Methyl-2-Pentanone (MIBK)	100	97	76	124	3.05	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Acetone	100	93	70	135	7.25	30
SW8260B	680-174693-1	10/7/19	680-589587	W	Benzene	104	103	80	120	0.97	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Bromobenzene	100	100	80	121	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Bromochloromethane	101	97	80	120	4.04	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Bromodichloromethane	106	102	80	120	3.85	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Bromoform	99	98	74	126	1.02	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Bromomethane	101	106	62	130	4.83	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Carbon Disulfide	103	105	80	120	1.92	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Carbon Tetrachloride	105	106	76	123	0.95	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Chlorobenzene	99	100	80	120	1.01	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Chloroethane	110	110	66	135	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Chloroform	105	102	80	120	2.9	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Chloromethane	96	100	69	131	4.08	30
SW8260B	680-174693-1	10/7/19	680-589587	W	Cis-1,2-Dichloroethene	105	103	80	120	1.92	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Cis-1,3-Dichloropropene	105	100	80	120	4.88	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Dibromochloromethane	102	98	80	121	4	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Dibromomethane	104	102	80	120	1.94	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Dichlorodifluoromethane	98	110	47	155	11.5	40
SW8260B	680-174693-1	10/7/19	680-589587	W	Ethylbenzene	101	104	80	120	2.93	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Hexachlorobutadiene	105	109	60	140	3.74	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Isopropyl Benzene (Cumene)	101	104	80	120	2.93	20
SW8260B	680-174693-1	10/7/19	680-589587	W	m,p-Xylene	100	102	80	120	1.98	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Methylene Chloride	97	94	80	120	3.14	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Mtbe	100	96	80	120	4.08	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Naphthalene	97	98	59	140	1.03	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/7/19	680-589587	W	N-Butylbenzene	102	107	80	120	4.78	20
SW8260B	680-174693-1	10/7/19	680-589587	W	N-Propylbenzene	103	105	80	120	1.92	20
SW8260B	680-174693-1	10/7/19	680-589587	W	O-Xylene	100	102	80	120	1.98	20
SW8260B	680-174693-1	10/7/19	680-589587	W	P-Isopropyltoluene (Cymene)	102	105	80	120	2.9	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Sec-Butylbenzene	103	107	80	120	3.81	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Styrene	101	103	80	120	1.96	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Tert-Butylbenzene	102	104	80	121	1.94	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Tetrachloroethylene	98	98	80	121	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Toluene	105	103	80	113	1.92	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Trans-1,2-Dichloroethene	104	104	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Trans-1,3-Dichloropropene	107	103	80	120	3.81	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Trichloroethene	102	101	80	120	0.99	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Trichlorofluoromethane	107	108	60	141	0.93	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Vinyl Acetate	109	105	67	135	3.74	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Vinyl Chloride	105	108	71	128	2.82	20
SW8260B	680-174693-1	10/7/19	680-589587	W	Xylenes (Total)	100	102	80	120	1.98	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1,1,2-Tetrachloroethane	111	114	80	121	2.67	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1,1-Trichloroethane	107	105	80	120	1.89	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1,2,2-Tetrachloroethane	89	103	80	120	14.6	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1,2-Trichloroethane	83	83	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1-Dichloroethane	94	92	80	120	2.15	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1-Dichloroethene	93	94	76	120	1.07	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,1-Dichloropropene	99	97	80	120	2.04	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2,3-Trichlorobenzene	94	118	61	141	22.6	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2,3-Trichloropropane	104	115	80	123	10	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2,4-Trichlorobenzene	83	110	68	128	28	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2,4-Trimethylbenzene	109	96	80	120	12.7	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2-Dibromo-3-Chloropropane	90	113	71	134	22.7	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2-Dibromoethane	105	93	80	120	12.1	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2-Dichlorobenzene	97	101	80	120	4.04	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2-Dichloroethane	91	92	80	120	1.09	50
SW8260B	680-174693-1	10/7/19	680-589601	W	1,2-Dichloropropane	90	80	80	120	11.8	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,3,5-Trimethylbenzene	96	108	80	120	11.8	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/7/19	680-589601	W	1,3-Dichlorobenzene	100	101	80	120	1	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,3-Dichloropropane	88	85	80	120	3.47	20
SW8260B	680-174693-1	10/7/19	680-589601	W	1,4-Dichlorobenzene	102	102	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589601	W	2,2-Dichloropropane	106	100	76	126	5.83	20
SW8260B	680-174693-1	10/7/19	680-589601	W	2-Butanone (MEK)	118	111	80	131	6.11	20
SW8260B	680-174693-1	10/7/19	680-589601	W	2-Chlorotoluene	94	105	80	120	11.1	20
SW8260B	680-174693-1	10/7/19	680-589601	W	2-Hexanone	96	86	74	127	11	20
SW8260B	680-174693-1	10/7/19	680-589601	W	4-Chlorotoluene	100	97	80	120	3.05	20
SW8260B	680-174693-1	10/7/19	680-589601	W	4-Methyl-2-Pentanone (MIBK)	104	83	76	124	22.5	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Acetone	83	95	70	135	13.5	30
SW8260B	680-174693-1	10/7/19	680-589601	W	Benzene	97	97	80	120	0	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Bromobenzene	102	116	80	121	12.8	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Bromochloromethane	100	99	80	120	1.01	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Bromodichloromethane	90	**78**	80	120	14.3	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Bromoform	113	115	74	126	1.75	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Bromomethane	100	97	62	130	3.05	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Carbon Disulfide	84	95	80	120	12.3	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Carbon Tetrachloride	108	100	76	123	7.69	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Chlorobenzene	108	110	80	120	1.83	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Chloroethane	126	129	66	135	2.35	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Chloroform	99	98	80	120	1.02	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Chloromethane	98	96	69	131	2.06	30
SW8260B	680-174693-1	10/7/19	680-589601	W	Cis-1,2-Dichloroethene	95	93	80	120	2.13	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Cis-1,3-Dichloropropene	91	**78**	80	120	15.4	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Dibromochloromethane	100	91	80	121	9.42	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Dibromomethane	98	87	80	120	11.9	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Dichlorodifluoromethane	95	87	47	155	8.79	40
SW8260B	680-174693-1	10/7/19	680-589601	W	Ethylbenzene	106	112	80	120	5.5	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Hexachlorobutadiene	93	101	60	140	8.25	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Isopropyl Benzene (Cumene)	106	107	80	120	0.94	20
SW8260B	680-174693-1	10/7/19	680-589601	W	m,p-Xylene	105	108	80	120	2.82	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Methylene Chloride	82	94	80	120	13.6	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Mtbe	85	94	80	120	10.1	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/7/19	680-589601	W	Naphthalene	95	109	59	140	13.7	20
SW8260B	680-174693-1	10/7/19	680-589601	W	N-Butylbenzene	87	89	80	120	2.27	20
SW8260B	680-174693-1	10/7/19	680-589601	W	N-Propylbenzene	98	107	80	120	8.78	20
SW8260B	680-174693-1	10/7/19	680-589601	W	O-Xylene	102	107	80	120	4.78	20
SW8260B	680-174693-1	10/7/19	680-589601	W	P-Isopropyltoluene (Cymene)	90	93	80	120	3.28	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Sec-Butylbenzene	110	93	80	120	16.7	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Styrene	107	113	80	120	5.45	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Tert-Butylbenzene	105	95	80	121	10	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Tetrachloroethylene	103	103	80	121	0	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Toluene	106	89	80	113	17.4	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Trans-1,2-Dichloroethene	89	101	80	120	12.6	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Trans-1,3-Dichloropropene	85	81	80	120	4.82	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Trichloroethene	106	91	80	120	15.2	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Trichlorofluoromethane	135	128	60	141	5.32	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Vinyl Acetate	106	103	67	135	2.87	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Vinyl Chloride	97	91	71	128	6.38	20
SW8260B	680-174693-1	10/7/19	680-589601	W	Xylenes (Total)	103	107	80	120	3.81	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1,1,2-Tetrachloroethane	107	108	80	121	0.93	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1,1-Trichloroethane	106	105	80	120	0.95	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1,2,2-Tetrachloroethane	87	88	80	120	1.14	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1,2-Trichloroethane	93	96	80	120	3.17	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1-Dichloroethane	95	96	80	120	1.05	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1-Dichloroethene	104	104	76	120	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,1-Dichloropropene	94	92	80	120	2.15	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2,3-Trichlorobenzene	79	85	61	141	7.32	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2,3-Trichloropropane	100	104	80	123	3.92	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2,4-Trichlorobenzene	77	79	68	128	2.56	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2,4-Trimethylbenzene	103	101	80	120	1.96	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2-Dibromo-3-Chloropropane	75	84	71	134	11.3	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2-Dibromoethane	102	105	80	120	2.9	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2-Dichlorobenzene	96	97	80	120	1.04	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2-Dichloroethane	94	97	80	120	3.14	50
SW8260B	680-174693-1	10/10/19	680-590268	W	1,2-Dichloropropane	91	91	80	120	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,3,5-Trimethylbenzene	103	99	80	120	3.96	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,3-Dichlorobenzene	99	99	80	120	0	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/10/19	680-590268	W	1,3-Dichloropropane	94	98	80	120	4.17	20
SW8260B	680-174693-1	10/10/19	680-590268	W	1,4-Dichlorobenzene	101	102	80	120	0.99	20
SW8260B	680-174693-1	10/10/19	680-590268	W	2,2-Dichloropropane	109	105	76	126	3.74	20
SW8260B	680-174693-1	10/10/19	680-590268	W	2-Butanone (MEK)	93	97	80	131	4.21	20
SW8260B	680-174693-1	10/10/19	680-590268	W	2-Chlorotoluene	103	102	80	120	0.98	20
SW8260B	680-174693-1	10/10/19	680-590268	W	2-Hexanone	91	95	74	127	4.3	20
SW8260B	680-174693-1	10/10/19	680-590268	W	4-Chlorotoluene	104	102	80	120	1.94	20
SW8260B	680-174693-1	10/10/19	680-590268	W	4-Methyl-2-Pentanone (MIBK)	92	95	76	124	3.21	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Acetone	76	78	70	135	2.6	30
SW8260B	680-174693-1	10/10/19	680-590268	W	Benzene	97	96	80	120	1.04	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Bromobenzene	112	112	80	121	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Bromochloromethane	98	100	80	120	2.02	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Bromodichloromethane	93	94	80	120	1.07	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Bromoform	108	108	74	126	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Bromomethane	105	96	62	130	8.96	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Carbon Disulfide	94	91	80	120	3.24	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Carbon Tetrachloride	99	97	76	123	2.04	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Chlorobenzene	108	106	80	120	1.87	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Chloroethane	123	119	66	135	3.31	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Chloroform	100	101	80	120	1	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Chloromethane	118	102	69	131	14.5	30
SW8260B	680-174693-1	10/10/19	680-590268	W	Cis-1,2-Dichloroethene	99	99	80	120	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Cis-1,3-Dichloropropene	92	94	80	120	2.15	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Dibromochloromethane	101	101	80	121	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Dibromomethane	98	102	80	120	4	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Dichlorodifluoromethane	98	91	47	155	7.41	40
SW8260B	680-174693-1	10/10/19	680-590268	W	Ethylbenzene	107	104	80	120	2.84	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Hexachlorobutadiene	88	80	60	140	9.52	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Isopropyl Benzene (Cumene)	106	103	80	120	2.87	20
SW8260B	680-174693-1	10/10/19	680-590268	W	m,p-Xylene	105	102	80	120	2.9	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Methylene Chloride	102	102	80	120	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Mtbe	96	99	80	120	3.08	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Naphthalene	75	79	59	140	5.19	20
SW8260B	680-174693-1	10/10/19	680-590268	W	N-Butylbenzene	89	86	80	120	3.43	20
SW8260B	680-174693-1	10/10/19	680-590268	W	N-Propylbenzene	104	100	80	120	3.92	20
SW8260B	680-174693-1	10/10/19	680-590268	W	O-Xylene	105	102	80	120	2.9	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/10/19	680-590268	W	P-Isopropyltoluene (Cymene)	92	88	80	120	4.44	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Sec-Butylbenzene	100	95	80	120	5.13	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Styrene	105	103	80	120	1.92	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Tert-Butylbenzene	99	96	80	121	3.08	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Tetrachloroethylene	117	114	80	121	2.6	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Toluene	104	104	80	113	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Trans-1,2-Dichloroethene	102	102	80	120	0	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Trans-1,3-Dichloropropene	87	89	80	120	2.27	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Trichloroethene	107	106	80	120	0.94	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Trichlorofluoromethane	122	120	60	141	1.65	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Vinyl Acetate	97	96	67	135	1.04	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Vinyl Chloride	103	100	71	128	2.96	20
SW8260B	680-174693-1	10/10/19	680-590268	W	Xylenes (Total)	105	102	80	120	2.9	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1,1,2-Tetrachloroethane	115	115	80	121	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1,1-Trichloroethane	**123**	**124**	80	120	0.81	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1,2,2-Tetrachloroethane	99	98	80	120	1.02	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1,2-Trichloroethane	100	97	80	120	3.05	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1-Dichloroethane	112	111	80	120	0.9	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1-Dichloroethene	110	112	76	120	1.8	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,1-Dichloropropene	117	119	80	120	1.69	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2,3-Trichlorobenzene	113	113	61	141	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2,3-Trichloropropane	103	102	80	123	0.98	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2,4-Trichlorobenzene	112	111	68	128	0.9	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2,4-Trimethylbenzene	109	111	80	120	1.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2-Dibromo-3-Chloropropane	98	97	71	134	1.03	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2-Dibromoethane	105	101	80	120	3.88	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2-Dichlorobenzene	103	102	80	120	0.98	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2-Dichloroethane	110	106	80	120	3.7	50
SW8260B	680-174693-1	10/14/19	680-590745	W	1,2-Dichloropropane	104	102	80	120	1.94	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,3,5-Trimethylbenzene	109	113	80	120	3.6	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,3-Dichlorobenzene	105	105	80	120	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,3-Dichloropropane	102	99	80	120	2.99	20
SW8260B	680-174693-1	10/14/19	680-590745	W	1,4-Dichlorobenzene	103	102	80	120	0.98	20
SW8260B	680-174693-1	10/14/19	680-590745	W	2,2-Dichloropropane	**137**	**137**	76	126	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	2-Butanone (MEK)	92	89	80	131	3.31	20
SW8260B	680-174693-1	10/14/19	680-590745	W	2-Chlorotoluene	106	109	80	120	2.79	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/14/19	680-590745	W	2-Hexanone	98	94	74	127	4.17	20
SW8260B	680-174693-1	10/14/19	680-590745	W	4-Chlorotoluene	106	108	80	120	1.87	20
SW8260B	680-174693-1	10/14/19	680-590745	W	4-Methyl-2-Pentanone (MIBK)	98	95	76	124	3.11	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Acetone	89	84	70	135	5.78	30
SW8260B	680-174693-1	10/14/19	680-590745	W	Benzene	102	102	80	120	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Bromobenzene	110	111	80	121	0.9	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Bromochloromethane	108	105	80	120	2.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Bromodichloromethane	109	105	80	120	3.74	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Bromoform	108	105	74	126	2.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Bromomethane	80	83	62	130	3.68	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Carbon Disulfide	109	111	80	120	1.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Carbon Tetrachloride	118	120	76	123	1.68	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Chlorobenzene	104	104	80	120	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Chloroethane	91	93	66	135	2.17	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Chloroform	112	111	80	120	0.9	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Chloromethane	92	94	69	131	2.15	30
SW8260B	680-174693-1	10/14/19	680-590745	W	Cis-1,2-Dichloroethene	112	111	80	120	0.9	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Cis-1,3-Dichloropropene	108	105	80	120	2.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Dibromochloromethane	108	105	80	121	2.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Dibromomethane	104	101	80	120	2.93	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Dichlorodifluoromethane	99	102	47	155	2.99	40
SW8260B	680-174693-1	10/14/19	680-590745	W	Ethylbenzene	112	114	80	120	1.77	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Hexachlorobutadiene	121	124	60	140	2.45	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Isopropyl Benzene (Cumene)	112	115	80	120	2.64	20
SW8260B	680-174693-1	10/14/19	680-590745	W	m,p-Xylene	112	113	80	120	0.89	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Methylene Chloride	108	105	80	120	2.82	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Mtbe	105	101	80	120	3.88	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Naphthalene	102	101	59	140	0.99	20
SW8260B	680-174693-1	10/14/19	680-590745	W	N-Butylbenzene	106	110	80	120	3.7	20
SW8260B	680-174693-1	10/14/19	680-590745	W	N-Propylbenzene	110	114	80	120	3.57	20
SW8260B	680-174693-1	10/14/19	680-590745	W	O-Xylene	109	110	80	120	0.91	20
SW8260B	680-174693-1	10/14/19	680-590745	W	P-Isopropyltoluene (Cymene)	108	111	80	120	2.74	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Sec-Butylbenzene	115	120	80	120	4.26	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Styrene	109	109	80	120	0	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1	10/14/19	680-590745	W	Tert-Butylbenzene	112	116	80	121	3.51	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Tetrachloroethylene	**123**	**124**	80	121	0.81	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Toluene	108	108	80	113	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Trans-1,2-Dichloroethene	113	113	80	120	0	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Trans-1,3-Dichloropropene	105	101	80	120	3.88	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Trichloroethene	114	115	80	120	0.87	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Trichlorofluoromethane	99	102	60	141	2.99	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Vinyl Acetate	116	111	67	135	4.41	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Vinyl Chloride	94	96	71	128	2.11	20
SW8260B	680-174693-1	10/14/19	680-590745	W	Xylenes (Total)	110	111	80	120	0.9	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1,1,2-Tetrachloroethane	101	102	80	121	0.99	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1,1-Trichloroethane	112	111	80	120	0.9	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1,2,2-Tetrachloroethane	102	104	80	120	1.94	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1,2-Trichloroethane	105	106	80	120	0.95	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1-Dichloroethane	108	109	80	120	0.92	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1-Dichloroethene	108	109	76	120	0.92	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,1-Dichloropropene	112	110	80	120	1.8	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2,3-Trichlorobenzene	108	106	61	141	1.87	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2,3-Trichloropropane	107	106	80	123	0.94	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2,4-Trichlorobenzene	108	109	68	128	0.92	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2,4-Trimethylbenzene	105	104	80	120	0.96	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2-Dibromo-3-Chloropropane	107	109	71	134	1.85	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2-Dibromoethane	100	101	80	120	1	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2-Dichlorobenzene	107	109	80	120	1.85	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2-Dichloroethane	115	113	80	120	1.75	50
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,2-Dichloropropane	107	109	80	120	1.85	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,3,5-Trimethylbenzene	106	104	80	120	1.9	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,3-Dichlorobenzene	109	110	80	120	0.91	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,3-Dichloropropane	107	106	80	120	0.94	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	1,4-Dichlorobenzene	104	107	80	120	2.84	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	2,2-Dichloropropane	125	122	76	126	2.43	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	2-Butanone (MEK)	106	106	80	131	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	2-Chlorotoluene	105	104	80	120	0.96	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	2-Hexanone	98	100	74	127	2.02	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	4-Chlorotoluene	110	105	80	120	4.65	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	4-Methyl-2-Pentanone (MIBK)	109	110	76	124	0.91	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Acetone	96	99	70	135	3.08	30
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Benzene	105	105	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Bromobenzene	99	99	80	121	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Bromochloromethane	117	118	80	120	0.85	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Bromodichloromethane	111	112	80	120	0.9	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Bromoform	101	104	74	126	2.93	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Bromomethane	95	96	62	130	1.05	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Carbon Disulfide	108	108	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Carbon Tetrachloride	116	115	76	123	0.87	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Chlorobenzene	106	105	80	120	0.95	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Chloroethane	110	108	66	135	1.83	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Chloroform	109	110	80	120	0.91	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Chloromethane	122	125	69	131	2.43	30
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Cis-1,2-Dichloroethene	106	105	80	120	0.95	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Cis-1,3-Dichloropropene	112	112	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Dibromochloromethane	101	100	80	121	1	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Dibromomethane	113	114	80	120	0.88	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Dichlorodifluoromethane	118	119	47	155	0.84	40
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Ethylbenzene	106	106	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Hexachlorobutadiene	111	111	60	140	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Isopropyl Benzene (Cumene)	106	106	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	m,p-Xylene	108	107	80	120	0.93	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Methylene Chloride	98	97	80	120	1.03	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Mtbe	104	104	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Naphthalene	101	102	59	140	0.99	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	N-Butylbenzene	112	113	80	120	0.89	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	N-Propylbenzene	108	107	80	120	0.93	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	O-Xylene	106	106	80	120	0	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	P-Isopropyltoluene (Cymene)	108	109	80	120	0.92	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Sec-Butylbenzene	104	103	80	120	0.97	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Styrene	111	112	80	120	0.9	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Tert-Butylbenzene	103	102	80	121	0.98	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Tetrachloroethylene	106	102	80	121	3.85	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Toluene	111	109	80	113	1.82	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Trans-1,2-Dichloroethene	107	108	80	120	0.93	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Trans-1,3-Dichloropropene	113	114	80	120	0.88	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Trichloroethene	108	107	80	120	0.93	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Trichlorofluoromethane	123	120	60	141	2.47	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Vinyl Acetate	122	121	67	135	0.82	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Vinyl Chloride	111	110	71	128	0.9	20
SW8260B	680-174693-1/680-174926-1	10/14/19	680-590748	W	Xylenes (Total)	107	106	80	120	0.94	20
SW8260B	680-174926-1	10/15/19	680-590968	W	1,1,2,2-Tetrachloroethane	102	105	80	120	2.9	20
SW8260B	680-174926-1	10/15/19	680-590968	W	1,1,2-Trichloroethane	99	100	80	120	1.01	20
SW8260B	680-174926-1	10/15/19	680-590968	W	1,1-Dichloroethene	100	94	76	120	6.19	20
SW8260B	680-174926-1	10/15/19	680-590968	W	1,2-Dichloroethane	98	101	80	120	3.02	50
SW8260B	680-174926-1	10/15/19	680-590968	W	Chloroethane	132	129	66	135	2.3	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Chloroform	104	105	80	120	0.96	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Chloromethane	**134**	118	69	131	12.7	30
SW8260B	680-174926-1	10/15/19	680-590968	W	Cis-1,2-Dichloroethene	113	111	80	120	1.79	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Methylene Chloride	108	106	80	120	1.87	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Tetrachloroethylene	108	108	80	121	0	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Trans-1,2-Dichloroethene	106	103	80	120	2.87	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Trichloroethene	102	102	80	120	0	20
SW8260B	680-174926-1	10/15/19	680-590968	W	Vinyl Chloride	111	112	71	128	0.9	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,1,1,2-Tetrachloroethane	121	121	80	121	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,1,1-Trichloroethane	107	106	80	120	0.94	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,1,2,2-Tetrachloroethane	113	111	80	120	1.79	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,1,2-Trichloroethane	106	102	80	120	3.85	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,1-Dichloroethane	104	100	80	120	3.92	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,1-Dichloroethene	111	106	76	120	4.61	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,2,3-Trichloropropane	112	113	80	123	0.89	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,2-Dibromo-3-Chloropropane	107	104	71	134	2.84	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,2-Dibromoethane	109	107	80	120	1.85	50
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,2-Dichlorobenzene	106	106	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,2-Dichloroethane	102	100	80	120	1.98	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,2-Dichloropropane	102	100	80	120	1.98	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,3-Dichloropropane	105	102	80	120	2.9	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	1,4-Dichlorobenzene	105	105	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	2-Butanone (MEK)	109	104	80	131	4.69	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	2-Hexanone	107	104	74	127	2.84	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	4-Methyl-2-Pentanone (MIBK)	107	104	76	124	2.84	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Acetone	113	103	70	135	9.26	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Acrylonitrile	106	100	80	120	5.83	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Benzene	105	103	80	120	1.92	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Bromochloromethane	102	101	80	120	0.99	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Bromodichloromethane	103	101	80	120	1.96	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Bromoform	120	118	76	126	1.68	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Bromomethane	**131**	**134**	62	130	2.26	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Carbon Disulfide	97	97	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Carbon Tetrachloride	110	109	76	123	0.91	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Chlorobenzene	109	109	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Chloroethane	114	115	66	135	0.87	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Chloroform	101	100	80	120	1	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Chloromethane	93	93	69	131	0	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Cis-1,2-Dichloroethene	105	103	80	120	1.92	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Cis-1,3-Dichloropropene	109	109	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Dibromochloromethane	106	105	80	121	0.95	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Dibromomethane	106	103	80	120	2.87	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Ethylbenzene	110	110	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Iodomethane	86	91	52	142	5.65	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Methylene Chloride	92	92	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Mtbe	107	103	80	120	3.81	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Styrene	115	116	80	120	0.87	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Tetrachloroethylene	113	114	80	121	0.88	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Toluene	105	106	80	113	0.95	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Trans-1,2-Dichloroethene	105	102	80	120	2.9	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Trans-1,3-Dichloropropene	113	111	80	120	1.79	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Trans-1,4-Dichloro-2-Butene	121	118	68	125	2.51	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Trichloroethene	111	109	80	120	1.82	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Trichlorofluoromethane	118	119	60	141	0.84	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Vinyl Acetate	**140**	135	67	135	3.64	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Vinyl Chloride	100	100	71	128	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612986	W	Xylenes (Total)	110	112	80	120	1.8	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,1,1,2-Tetrachloroethane	100	100	80	121	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,1,1-Trichloroethane	102	104	80	120	1.94	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,1,2,2-Tetrachloroethane	103	102	80	120	0.98	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,1,2-Trichloroethane	105	104	80	120	0.96	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,1-Dichloroethane	102	101	80	120	0.99	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,1-Dichloroethene	101	105	76	120	3.88	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,2,3-Trichloropropane	105	102	80	123	2.9	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,2-Dibromo-3-Chloropropane	108	104	71	134	3.77	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,2-Dibromoethane	107	107	80	120	0	50
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,2-Dichlorobenzene	99	100	80	120	1.01	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,2-Dichloroethane	107	106	80	120	0.94	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,2-Dichloropropane	104	105	80	120	0.96	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,3-Dichloropropane	106	105	80	120	0.95	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	1,4-Dichlorobenzene	97	96	80	120	1.04	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	2-Butanone (MEK)	114	111	80	131	2.67	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	2-Hexanone	119	117	74	127	1.69	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	4-Methyl-2-Pentanone (MIBK)	115	113	76	124	1.75	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Acetone	117	117	70	135	0	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Acrylonitrile	111	110	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Benzene	102	104	80	120	1.94	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Bromochloromethane	106	105	80	120	0.95	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Bromodichloromethane	105	105	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Bromoform	104	103	76	126	0.97	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Bromomethane	115	118	62	130	2.58	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Carbon Disulfide	100	103	80	120	2.96	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Carbon Tetrachloride	102	104	76	123	1.94	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Chlorobenzene	99	97	80	120	2.04	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Chloroethane	97	98	66	135	1.03	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Chloroform	102	103	80	120	0.98	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Chloromethane	102	98	69	131	4	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Cis-1,2-Dichloroethene	109	108	80	120	0.92	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Cis-1,3-Dichloropropene	108	108	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Dibromochloromethane	104	104	80	121	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Dibromomethane	107	107	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Ethylbenzene	102	102	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Iodomethane	121	122	52	142	0.82	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Methylene Chloride	94	93	80	120	1.07	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Mtbe	103	100	80	120	2.96	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Styrene	107	107	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Tetrachloroethylene	99	103	80	121	3.96	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Toluene	102	104	80	113	1.94	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Trans-1,2-Dichloroethene	104	104	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Trans-1,3-Dichloropropene	111	112	80	120	0.9	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Trans-1,4-Dichloro-2-Butene	118	111	68	125	6.11	30
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Trichloroethene	102	105	80	120	2.9	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Trichlorofluoromethane	102	106	60	141	3.85	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Vinyl Acetate	127	120	67	135	5.67	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Vinyl Chloride	105	108	71	128	2.82	20
SW8260B	680-181793-1/680-181865-1	3/28/20	680-612992	W	Xylenes (Total)	102	102	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,1,1,2-Tetrachloroethane	**127**	**128**	80	121	0.78	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,1,1-Trichloroethane	114	112	80	120	1.77	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,1,2,2-Tetrachloroethane	114	120	80	120	5.13	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,1,2-Trichloroethane	111	116	80	120	4.41	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,1-Dichloroethane	109	108	80	120	0.92	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,1-Dichloroethene	118	114	76	120	3.45	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,2,3-Trichloropropane	111	120	80	123	7.79	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,2-Dibromo-3-Chloropropane	105	112	71	134	6.45	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,2-Dibromoethane	114	**121**	80	120	5.96	50
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,2-Dichlorobenzene	109	112	80	120	2.71	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,2-Dichloroethane	108	113	80	120	4.52	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,2-Dichloropropane	109	113	80	120	3.6	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,3-Dichloropropane	109	117	80	120	7.08	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	1,4-Dichlorobenzene	104	107	80	120	2.84	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	2-Butanone (MEK)	110	116	80	131	5.31	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	2-Hexanone	105	112	74	127	6.45	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	4-Methyl-2-Pentanone (MIBK)	106	115	76	124	8.14	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Acetone	118	130	70	135	9.68	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Acrylonitrile	111	119	80	120	6.96	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Benzene	111	110	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Bromochloromethane	110	107	80	120	2.76	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Bromodichloromethane	111	115	80	120	3.54	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Bromoform	124	**130**	76	126	4.72	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Bromomethane	**180**	**221**	62	130	20.4	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Carbon Disulfide	104	99	80	120	4.93	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Carbon Tetrachloride	119	113	76	123	5.17	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Chlorobenzene	114	115	80	120	0.87	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Chloroethane	117	110	66	135	6.17	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Chloroform	109	109	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Chloromethane	98	94	69	131	4.17	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Cis-1,2-Dichloroethene	112	113	80	120	0.89	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Cis-1,3-Dichloropropene	115	119	80	120	3.42	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Dibromochloromethane	113	119	80	121	5.17	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Dibromomethane	113	**121**	80	120	6.84	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Ethylbenzene	115	113	80	120	1.75	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Iodomethane	118	117	52	142	0.85	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Methylene Chloride	99	103	80	120	3.96	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Mtbe	109	118	80	120	7.93	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Styrene	120	119	80	120	0.84	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Tetrachloroethylene	121	118	80	121	2.51	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Toluene	111	110	80	113	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Trans-1,2-Dichloroethene	114	111	80	120	2.67	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Trans-1,3-Dichloropropene	117	**123**	80	120	5	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Trans-1,4-Dichloro-2-Butene	121	**128**	68	125	5.62	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Trichloroethene	119	116	80	120	2.55	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Trichlorofluoromethane	123	116	60	141	5.86	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Vinyl Acetate	**144**	**152**	67	135	5.41	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Vinyl Chloride	107	100	71	128	6.76	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613128	W	Xylenes (Total)	116	114	80	120	1.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,1,1,2-Tetrachloroethane	104	104	80	121	0	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,1,1-Trichloroethane	108	108	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,1,2,2-Tetrachloroethane	105	102	80	120	2.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,1,2-Trichloroethane	109	106	80	120	2.79	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,1-Dichloroethane	107	105	80	120	1.89	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,1-Dichloroethene	110	111	76	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,2,3-Trichloropropane	104	103	80	123	0.97	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,2-Dibromo-3-Chloropropane	107	106	71	134	0.94	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,2-Dibromoethane	112	109	80	120	2.71	50
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,2-Dichlorobenzene	101	100	80	120	1	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,2-Dichloroethane	110	106	80	120	3.7	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,2-Dichloropropane	111	108	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,3-Dichloropropane	113	108	80	120	4.52	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	1,4-Dichlorobenzene	98	97	80	120	1.03	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	2-Butanone (MEK)	115	114	80	131	0.87	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	2-Hexanone	119	115	74	127	3.42	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	4-Methyl-2-Pentanone (MIBK)	117	115	76	124	1.72	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Acetone	119	120	70	135	0.84	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Acrylonitrile	115	115	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Benzene	111	108	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Bromochloromethane	112	108	80	120	3.64	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Bromodichloromethane	112	107	80	120	4.57	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Bromoform	108	106	76	126	1.87	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Bromomethane	108	107	62	130	0.93	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Carbon Disulfide	108	107	80	120	0.93	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Carbon Tetrachloride	109	108	76	123	0.92	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Chlorobenzene	102	102	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Chloroethane	100	102	66	135	1.98	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Chloroform	108	106	80	120	1.87	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Chloromethane	105	102	69	131	2.9	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Cis-1,2-Dichloroethene	112	111	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Cis-1,3-Dichloropropene	114	110	80	120	3.57	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Dibromochloromethane	110	105	80	121	4.65	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Dibromomethane	111	107	80	120	3.67	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Ethylbenzene	106	106	80	120	0	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Iodomethane	126	125	52	142	0.8	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Methylene Chloride	98	96	80	120	2.06	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Mtbe	107	105	80	120	1.89	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Styrene	111	110	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Tetrachloroethylene	107	109	80	121	1.85	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Toluene	109	107	80	113	1.85	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Trans-1,2-Dichloroethene	111	111	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Trans-1,3-Dichloropropene	117	113	80	120	3.48	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Trans-1,4-Dichloro-2-Butene	113	110	68	125	2.69	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Trichloroethene	111	109	80	120	1.82	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Trichlorofluoromethane	110	112	60	141	1.8	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Vinyl Acetate	132	128	67	135	3.08	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Vinyl Chloride	110	111	71	128	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613134	W	Xylenes (Total)	105	106	80	120	0.95	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,1,1,2-Tetrachloroethane	113	114	80	121	0.88	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,1,1-Trichloroethane	108	111	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,1,2,2-Tetrachloroethane	111	111	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,1,2-Trichloroethane	112	115	80	120	2.64	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,1-Dichloroethane	106	110	80	120	3.7	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,1-Dichloroethene	104	108	76	120	3.77	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,2,3-Trichloropropane	108	110	80	123	1.83	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,2-Dibromo-3-Chloropropane	112	113	71	134	0.89	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,2-Dibromoethane	114	118	80	120	3.45	50
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,2-Dichlorobenzene	108	109	80	120	0.92	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,2-Dichloroethane	108	112	80	120	3.64	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,2-Dichloropropane	110	113	80	120	2.69	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,3-Dichloropropane	110	114	80	120	3.57	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	1,4-Dichlorobenzene	105	105	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	2-Butanone (MEK)	108	113	80	131	4.52	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	2-Hexanone	109	113	74	127	3.6	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	4-Methyl-2-Pentanone (MIBK)	108	112	76	124	3.64	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Acetone	104	107	70	135	2.84	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Acrylonitrile	104	108	80	120	3.77	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Benzene	107	110	80	120	2.76	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Bromochloromethane	109	112	80	120	2.71	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Bromodichloromethane	112	116	80	120	3.51	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Bromoform	120	120	76	126	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Bromomethane	**221**	**234**	62	130	5.71	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Carbon Disulfide	105	107	80	120	1.89	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Carbon Tetrachloride	108	111	76	123	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Chlorobenzene	108	111	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Chloroethane	**139**	**143**	66	135	2.84	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Chloroform	108	111	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Chloromethane	100	101	69	131	1	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Cis-1,2-Dichloroethene	108	111	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Cis-1,3-Dichloropropene	116	119	80	120	2.55	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Dibromochloromethane	116	121	80	121	4.22	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Dibromomethane	108	113	80	120	4.52	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Ethylbenzene	109	111	80	120	1.82	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Iodomethane	101	103	52	142	1.96	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Methylene Chloride	98	102	80	120	4	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Mtbe	109	113	80	120	3.6	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Styrene	114	116	80	120	1.74	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Tetrachloroethylene	111	113	80	121	1.79	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Toluene	109	113	80	113	3.6	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Trans-1,2-Dichloroethene	107	112	80	120	4.57	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Trans-1,3-Dichloropropene	117	**121**	80	120	3.36	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Trans-1,4-Dichloro-2-Butene	117	118	68	125	0.85	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Trichloroethene	109	112	80	120	2.71	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Trichlorofluoromethane	105	107	60	141	1.89	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Vinyl Acetate	121	125	67	135	3.25	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Vinyl Chloride	99	101	71	128	2	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613140	W	Xylenes (Total)	110	112	80	120	1.8	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,1,1,2-Tetrachloroethane	111	110	80	121	0.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,1,1-Trichloroethane	114	111	80	120	2.67	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,1,2,2-Tetrachloroethane	114	113	80	120	0.88	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,1,2-Trichloroethane	116	109	80	120	6.22	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,1-Dichloroethane	118	113	80	120	4.33	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,1-Dichloroethene	119	**121**	76	120	1.67	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,2,3-Trichloropropane	104	105	80	123	0.96	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,2-Dibromo-3-Chloropropane	106	107	71	134	0.94	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,2-Dibromoethane	115	109	80	120	5.36	50
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,2-Dichlorobenzene	105	104	80	120	0.96	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,2-Dichloroethane	120	112	80	120	6.9	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,2-Dichloropropane	119	112	80	120	6.06	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,3-Dichloropropane	116	109	80	120	6.22	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	1,4-Dichlorobenzene	104	102	80	120	1.94	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	2-Butanone (MEK)	112	105	80	131	6.45	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	2-Hexanone	114	107	74	127	6.33	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	4-Methyl-2-Pentanone (MIBK)	115	108	76	124	6.28	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Acetone	113	107	70	135	5.45	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Acrylonitrile	114	108	80	120	5.41	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Benzene	115	108	80	120	6.28	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Bromochloromethane	114	108	80	120	5.41	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Bromodichloromethane	115	109	80	120	5.36	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Bromoform	106	103	76	126	2.87	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Bromomethane	**135**	**137**	62	130	1.47	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Carbon Disulfide	114	111	80	120	2.67	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Carbon Tetrachloride	112	109	76	123	2.71	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Chlorobenzene	109	110	80	120	0.91	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Chloroethane	125	120	66	135	4.08	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Chloroform	113	109	80	120	3.6	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Chloromethane	111	109	69	131	1.82	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Cis-1,2-Dichloroethene	**122**	118	80	120	3.33	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Cis-1,3-Dichloropropene	**123**	118	80	120	4.15	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Dibromochloromethane	111	102	80	121	8.45	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Dibromomethane	113	107	80	120	5.45	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Ethylbenzene	109	110	80	120	0.91	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Iodomethane	123	120	52	142	2.47	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Methylene Chloride	108	104	80	120	3.77	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Mtbe	119	111	80	120	6.96	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Styrene	107	107	80	120	0	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Tetrachloroethylene	112	110	80	121	1.8	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Toluene	113	109	80	113	3.6	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Trans-1,2-Dichloroethene	117	115	80	120	1.72	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Trans-1,3-Dichloropropene	**122**	115	80	120	5.91	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Trans-1,4-Dichloro-2-Butene	121	118	68	125	2.51	30
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Trichloroethene	108	107	80	120	0.93	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Trichlorofluoromethane	120	120	60	141	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Vinyl Acetate	**162**	**151**	67	135	7.03	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Vinyl Chloride	120	120	71	128	0	20
SW8260B	680-181793-1/680-181865-1	3/30/20	680-613146	W	Xylenes (Total)	108	109	80	120	0.92	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,1,1,2-Tetrachloroethane	121	**123**	80	121	1.64	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,1,1-Trichloroethane	117	114	80	120	2.6	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,1,2,2-Tetrachloroethane	112	115	80	120	2.64	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,1,2-Trichloroethane	110	114	80	120	3.57	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,1-Dichloroethane	109	111	80	120	1.82	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,1-Dichloroethene	112	112	76	120	0	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,2,3-Trichloropropane	107	113	80	123	5.45	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,2-Dibromo-3-Chloropropane	98	103	71	134	4.98	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,2-Dibromoethane	112	118	80	120	5.22	50
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,2-Dichlorobenzene	104	106	80	120	1.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,2-Dichloroethane	108	112	80	120	3.64	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,2-Dichloropropane	109	112	80	120	2.71	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,3-Dichloropropane	109	113	80	120	3.6	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	1,4-Dichlorobenzene	101	99	80	120	2	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	2-Butanone (MEK)	107	116	80	131	8.07	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	2-Hexanone	104	111	74	127	6.51	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	4-Methyl-2-Pentanone (MIBK)	105	110	76	124	4.65	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Acetone	119	133	70	135	11.1	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Acrylonitrile	108	116	80	120	7.14	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Benzene	111	112	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Bromochloromethane	108	109	80	120	0.92	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Bromodichloromethane	111	113	80	120	1.79	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Bromoform	118	123	76	126	4.15	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Bromomethane	**170**	**156**	62	130	8.59	20

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Carbon Disulfide	109	106	80	120	2.79	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Carbon Tetrachloride	121	117	76	123	3.36	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Chlorobenzene	111	112	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Chloroethane	121	118	66	135	2.51	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Chloroform	110	111	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Chloromethane	101	98	69	131	3.02	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Cis-1,2-Dichloroethene	114	114	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Cis-1,3-Dichloropropene	115	118	80	120	2.58	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Dibromochloromethane	113	118	80	121	4.33	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Dibromomethane	112	**121**	80	120	7.73	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Ethylbenzene	111	112	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Iodomethane	103	110	52	142	6.57	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Methylene Chloride	102	106	80	120	3.85	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Mtbe	109	115	80	120	5.36	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Styrene	116	119	80	120	2.55	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Tetrachloroethylene	**122**	120	80	121	1.65	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Toluene	111	111	80	113	0	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Trans-1,2-Dichloroethene	116	112	80	120	3.51	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Trans-1,3-Dichloropropene	117	119	80	120	1.69	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Trans-1,4-Dichloro-2-Butene	112	117	68	125	4.37	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Trichloroethene	120	117	80	120	2.53	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Trichlorofluoromethane	126	122	60	141	3.23	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Vinyl Acetate	**137**	**144**	67	135	4.98	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Vinyl Chloride	110	107	71	128	2.76	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613323	W	Xylenes (Total)	113	114	80	120	0.88	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,1,1,2-Tetrachloroethane	108	109	80	121	0.92	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,1,1-Trichloroethane	107	110	80	120	2.76	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,1,2,2-Tetrachloroethane	110	108	80	120	1.83	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,1,2-Trichloroethane	114	113	80	120	0.88	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,1-Dichloroethane	108	109	80	120	0.92	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,1-Dichloroethene	104	109	76	120	4.69	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,2,3-Trichloropropane	107	106	80	123	0.94	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,2-Dibromo-3-Chloropropane	107	109	71	134	1.85	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,2-Dibromoethane	116	113	80	120	2.62	50

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,2-Dichlorobenzene	103	103	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,2-Dichloroethane	110	108	80	120	1.83	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,2-Dichloropropane	111	111	80	120	0	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,3-Dichloropropane	113	110	80	120	2.69	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	1,4-Dichlorobenzene	99	101	80	120	2	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	2-Butanone (MEK)	112	110	80	131	1.8	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	2-Hexanone	113	111	74	127	1.79	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	4-Methyl-2-Pentanone (MIBK)	113	110	76	124	2.69	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Acetone	109	106	70	135	2.79	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Acrylonitrile	108	106	80	120	1.87	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Benzene	108	109	80	120	0.92	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Bromochloromethane	111	110	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Bromodichloromethane	113	112	80	120	0.89	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Bromoform	115	114	76	126	0.87	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Bromomethane	**229**	**238**	62	130	3.85	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Carbon Disulfide	106	109	80	120	2.79	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Carbon Tetrachloride	106	110	76	123	3.7	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Chlorobenzene	104	106	80	120	1.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Chloroethane	**143**	**144**	66	135	0.7	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Chloroform	109	110	80	120	0.91	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Chloromethane	106	106	69	131	0	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Cis-1,2-Dichloroethene	110	109	80	120	0.91	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Cis-1,3-Dichloropropene	117	115	80	120	1.72	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Dibromochloromethane	118	117	80	121	0.85	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Dibromomethane	111	109	80	120	1.82	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Ethylbenzene	103	107	80	120	3.81	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Iodomethane	102	103	52	142	0.98	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Methylene Chloride	103	102	80	120	0.98	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Mtbe	111	109	80	120	1.82	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Styrene	111	112	80	120	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Tetrachloroethylene	109	113	80	121	3.6	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Toluene	110	111	80	113	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Trans-1,2-Dichloroethene	108	111	80	120	2.74	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Trans-1,3-Dichloropropene	118	116	80	120	1.71	30

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Trans-1,4-Dichloro-2-Butene	116	114	68	125	1.74	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Trichloroethene	107	111	80	120	3.67	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Trichlorofluoromethane	103	108	60	141	4.74	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Vinyl Acetate	123	119	67	135	3.31	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Vinyl Chloride	102	105	71	128	2.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613335	W	Xylenes (Total)	105	108	80	120	2.82	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Trichloroethene	105	108	80	120	2.82	20
SW8260B	680-181865-1	3/26/20	680-612635	W	1,1,2,2-Tetrachloroethane	101	101	80	120	0	20
SW8260B	680-181865-1	3/26/20	680-612635	W	1,1,2-Trichloroethane	103	103	80	120	0	20
SW8260B	680-181865-1	3/26/20	680-612635	W	1,1-Dichloroethene	112	114	76	120	1.77	20
SW8260B	680-181865-1	3/26/20	680-612635	W	1,2-Dichloroethane	109	107	80	120	1.85	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Chloroethane	103	102	66	135	0.98	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Chloroform	105	105	80	120	0	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Chloromethane	110	112	69	131	1.8	30
SW8260B	680-181865-1	3/26/20	680-612635	W	Cis-1,2-Dichloroethene	112	115	80	120	2.64	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Methylene Chloride	97	97	80	120	0	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Tetrachloroethylene	104	106	80	121	1.9	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Trans-1,2-Dichloroethene	110	110	80	120	0	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Trichloroethene	104	107	80	120	2.84	20
SW8260B	680-181865-1	3/26/20	680-612635	W	Vinyl Chloride	111	112	71	128	0.9	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	1,1,2,2-Tetrachloroethane	110	**123**	80	120	11.2	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	1,1,2-Trichloroethane	112	119	80	120	6.06	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	1,1-Dichloroethene	117	114	76	120	2.6	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	1,2-Dichloroethane	**122**	**125**	80	120	2.43	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Chloroethane	127	125	66	135	1.59	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Chloroform	115	116	80	120	0.87	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Chloromethane	**139**	104	69	131	28.8	30
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Cis-1,2-Dichloroethene	**121**	**122**	80	120	0.82	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Methylene Chloride	110	114	80	120	3.57	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Tetrachloroethylene	103	106	80	121	2.87	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Trans-1,2-Dichloroethene	120	116	80	120	3.39	20
SW8260B	680-181793-1/680-181865-1	3/31/20	680-613341	W	Vinyl Chloride	118	115	71	128	2.58	20
SW9056A	680-174487-1	9/25/19	680-587642	W	Nitrate-N	95	95	90	110	0	15
SW9056A	680-174487-1	9/27/19	680-588076	W	Sulfate	104	104	90	110	0	15

Table D5-8: Summary of LCS/LCSD Recoveries and RPDs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Method	Delivery Group	Analysis Date	Analytical Batch	Matrix	Parameter Name	LCS %R	LCSD %R	LCL	UCL	RPD	RPD Limit
SW9056A	680-174487-1	9/27/19	680-588142	W	Sulfate	110	109	90	110	0.91	15
SW9060	680-181865-1	3/31/20	680-613443	W	Total Organic Carbon	99	100	80	120	1.01	25
SW9060A	680-174693-1	10/1/19	680-588809	W	Total Organic Carbon	97	98	80	120	1.03	25
SW9060A	680-181793-1/680-181865-1	3/27/20	680-613178	W	Total Organic Carbon	99	100	80	120	1.01	25

Notes:
LCL = Lower control limit
LCS = Laboratory control sample
LCSD = Laboratory control sample duplicate
RPD = Relative percent difference
UCL = Upper control limit
W = Water
%R = Percent recovery

Value is greater than the RPD Limit.

Value is less than acceptance criteria.

Table D5-9: Summary of Surrogate Recoveries
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Sample Date	Matrix	QC Code	Delivery Group	Method	Parameter Name	%R	LCL	UCL
CWM-183-MW04	9/26/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	89	73	131
CWM-183-MW04	9/26/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	91	80	120
CWM-183-MW04	9/26/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	95	80	122
CWM-183-MW04	9/26/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW04	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	97	73	131
CWM-183-MW04	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	101	80	120
CWM-183-MW04	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW04	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	106	80	120
CWM-183-MW04	3/18/20	WG	FD	680-181793-1	SW8260B	1,2-Dichloroethane-D4	100	73	131
CWM-183-MW04	3/18/20	WG	FD	680-181793-1	SW8260B	4-Bromofluorobenzene	105	80	120
CWM-183-MW04	3/18/20	WG	FD	680-181793-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW04	3/18/20	WG	FD	680-181793-1	SW8260B	Toluene-D8	106	80	120
CWM-183-MW06	9/25/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	86	73	131
CWM-183-MW06	9/25/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	88	73	131
CWM-183-MW06	9/25/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	95	73	131
CWM-183-MW06	9/25/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	113	73	131
CWM-183-MW06	3/19/20	WG	NS	680-181865-1	SW8260B	1,2-Dichloroethane-D4	101	73	131
CWM-183-MW06	3/19/20	WG	NS	680-181865-1	SW8260B	4-Bromofluorobenzene	101	80	120
CWM-183-MW06	3/19/20	WG	NS	680-181865-1	SW8260B	Dibromofluoromethane	100	80	120
CWM-183-MW06	3/19/20	WG	NS	680-181865-1	SW8260B	Toluene-D8	105	80	120
CWM-183-MW07	3/19/20	WG	NS	680-181865-1	SW8260B	1,2-Dichloroethane-D4	100	73	131
CWM-183-MW07	3/19/20	WG	NS	680-181865-1	SW8260B	4-Bromofluorobenzene	99	80	122
CWM-183-MW07	3/19/20	WG	NS	680-181865-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW07	3/19/20	WG	NS	680-181865-1	SW8260B	Toluene-D8	103	80	122
CWM-183-MW08	9/25/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	83	80	120
CWM-183-MW08	9/25/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	113	80	120
CWM-183-MW08	9/25/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	98	80	120
CWM-183-MW08	9/25/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	111	80	120
CWM-183-MW08	3/19/20	WG	NS	680-181865-1	SW8260B	1,2-Dichloroethane-D4	100	73	131
CWM-183-MW08	3/19/20	WG	NS	680-181865-1	SW8260B	4-Bromofluorobenzene	103	80	120
CWM-183-MW08	3/19/20	WG	NS	680-181865-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW08	3/19/20	WG	NS	680-181865-1	SW8260B	Toluene-D8	106	80	120
CWM-183-MW09	3/19/20	WG	NS	680-181865-1	SW8260B	1,2-Dichloroethane-D4	108	73	131
CWM-183-MW09	3/19/20	WG	NS	680-181865-1	SW8260B	4-Bromofluorobenzene	97	80	120
CWM-183-MW09	3/19/20	WG	NS	680-181865-1	SW8260B	Dibromofluoromethane	109	80	122
CWM-183-MW09	3/19/20	WG	NS	680-181865-1	SW8260B	Toluene-D8	105	80	120
CWM-183-MW11	10/2/19	WG	NS	680-174926-1	SW8260B	1,2-Dichloroethane-D4	106	73	131
CWM-183-MW11	10/2/19	WG	NS	680-174926-1	SW8260B	4-Bromofluorobenzene	102	80	120
CWM-183-MW11	10/2/19	WG	NS	680-174926-1	SW8260B	Dibromofluoromethane	106	80	122
CWM-183-MW11	10/2/19	WG	NS	680-174926-1	SW8260B	Toluene-D8	100	80	120
CWM-183-MW11	3/19/20	WG	NS	680-181865-1	SW8260B	1,2-Dichloroethane-D4	102	73	131
CWM-183-MW11	3/19/20	WG	NS	680-181865-1	SW8260B	4-Bromofluorobenzene	101	80	120
CWM-183-MW11	3/19/20	WG	NS	680-181865-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW11	3/19/20	WG	NS	680-181865-1	SW8260B	Toluene-D8	104	80	120
CWM-183-MW13	9/26/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	103	73	131
CWM-183-MW13	9/26/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	89	80	120
CWM-183-MW13	9/26/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	106	80	122
CWM-183-MW13	9/26/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	102	80	120
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	96	73	131
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	107	73	131

Table D5-9: Summary of Surrogate Recoveries
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Sample Date	Matrix	QC Code	Delivery Group	Method	Parameter Name	%R	LCL	UCL
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	95	80	122
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	107	80	120
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	106	73	131
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	107	80	120
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	105	80	122
CWM-183-MW13	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW15	9/23/19	WG	NS	680-174487-1	SW8260B	1,2-Dichloroethane-D4	100	73	131
CWM-183-MW15	9/23/19	WG	NS	680-174487-1	SW8260B	4-Bromofluorobenzene	93	80	120
CWM-183-MW15	9/23/19	WG	NS	680-174487-1	SW8260B	Dibromofluoromethane	114	80	122
CWM-183-MW15	9/23/19	WG	NS	680-174487-1	SW8260B	Toluene-D8	100	80	120
CWM-183-MW15	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	107	73	131
CWM-183-MW15	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	95	80	120
CWM-183-MW15	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	120	80	122
CWM-183-MW15	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW16	9/24/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	102	73	131
CWM-183-MW16	9/24/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	103	80	120
CWM-183-MW16	9/24/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	104	80	122
CWM-183-MW16	9/24/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	104	80	120
CWM-183-MW16	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	108	73	131
CWM-183-MW16	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	96	80	120
CWM-183-MW16	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	107	80	122
CWM-183-MW16	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	106	80	120
CWM-183-MW17	9/23/19	WG	NS	680-174487-1	SW8260B	1,2-Dichloroethane-D4	90	73	131
CWM-183-MW17	9/23/19	WG	NS	680-174487-1	SW8260B	4-Bromofluorobenzene	89	80	120
CWM-183-MW17	9/23/19	WG	NS	680-174487-1	SW8260B	Dibromofluoromethane	103	80	122
CWM-183-MW17	9/23/19	WG	NS	680-174487-1	SW8260B	Toluene-D8	108	80	120
CWM-183-MW17	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	106	73	131
CWM-183-MW17	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	96	80	120
CWM-183-MW17	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	117	80	122
CWM-183-MW17	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	109	80	120
CWM-183-MW19	9/25/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	87	73	131
CWM-183-MW19	9/25/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	99	80	120
CWM-183-MW19	9/25/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	92	80	122
CWM-183-MW19	9/25/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	110	80	120
CWM-183-MW19	3/17/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	108	73	131
CWM-183-MW19	3/17/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	95	80	120
CWM-183-MW19	3/17/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	**132**	80	122
CWM-183-MW19	3/17/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	117	80	120
CWM-183-MW19	3/17/20	WG	FD	680-181793-1	SW8260B	1,2-Dichloroethane-D4	102	73	131
CWM-183-MW19	3/17/20	WG	FD	680-181793-1	SW8260B	4-Bromofluorobenzene	104	80	120
CWM-183-MW19	3/17/20	WG	FD	680-181793-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW19	3/17/20	WG	FD	680-181793-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW20	9/25/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	90	73	131
CWM-183-MW20	9/25/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	102	80	120
CWM-183-MW20	9/25/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	111	80	122
CWM-183-MW20	9/25/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	110	80	120
CWM-183-MW20	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	108	73	131
CWM-183-MW20	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	97	80	120
CWM-183-MW20	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	106	80	122
CWM-183-MW20	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	105	80	120

Table D5-9: Summary of Surrogate Recoveries
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Sample Date	Matrix	QC Code	Delivery Group	Method	Parameter Name	%R	LCL	UCL
CWM-183-MW21	10/2/19	WG	NS	680-174926-1	SW8260B	1,2-Dichloroethane-D4	106	73	131
CWM-183-MW21	10/2/19	WG	NS	680-174926-1	SW8260B	4-Bromofluorobenzene	100	80	120
CWM-183-MW21	10/2/19	WG	NS	680-174926-1	SW8260B	Dibromofluoromethane	106	80	122
CWM-183-MW21	10/2/19	WG	NS	680-174926-1	SW8260B	Toluene-D8	101	80	120
CWM-183-MW21	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	94	73	131
CWM-183-MW21	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	104	80	120
CWM-183-MW21	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	98	80	122
CWM-183-MW21	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	108	80	120
CWM-183-MW22	10/2/19	WG	NS	680-174926-1	SW8260B	1,2-Dichloroethane-D4	88	73	131
CWM-183-MW22	10/2/19	WG	NS	680-174926-1	SW8260B	4-Bromofluorobenzene	97	80	120
CWM-183-MW22	10/2/19	WG	NS	680-174926-1	SW8260B	Dibromofluoromethane	93	80	122
CWM-183-MW22	10/2/19	WG	NS	680-174926-1	SW8260B	Toluene-D8	103	80	120
CWM-183-MW22	10/2/19	WG	FD	680-174926-1	SW8260B	1,2-Dichloroethane-D4	93	73	131
CWM-183-MW22	10/2/19	WG	FD	680-174926-1	SW8260B	4-Bromofluorobenzene	95	80	120
CWM-183-MW22	10/2/19	WG	FD	680-174926-1	SW8260B	Dibromofluoromethane	97	80	122
CWM-183-MW22	10/2/19	WG	FD	680-174926-1	SW8260B	Toluene-D8	100	80	120
CWM-183-MW22	3/18/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	96	73	131
CWM-183-MW22	3/18/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	102	80	120
CWM-183-MW22	3/18/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW22	3/18/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	106	80	120
CWM-183-MW23	9/26/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	94	73	131
CWM-183-MW23	9/26/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	90	80	120
CWM-183-MW23	9/26/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	103	80	122
CWM-183-MW23	9/26/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW23	3/19/20	WG	NS	680-181865-1	SW8260B	1,2-Dichloroethane-D4	107	73	131
CWM-183-MW23	3/19/20	WG	NS	680-181865-1	SW8260B	4-Bromofluorobenzene	101	80	120
CWM-183-MW23	3/19/20	WG	NS	680-181865-1	SW8260B	Dibromofluoromethane	101	80	122
CWM-183-MW23	3/19/20	WG	NS	680-181865-1	SW8260B	Toluene-D8	105	80	120
CWM-183-MW25	9/25/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	85	73	131
CWM-183-MW25	9/25/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	101	80	120
CWM-183-MW25	9/25/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	104	80	122
CWM-183-MW25	9/25/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	117	80	120
CWM-183-MW25	3/17/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	96	73	131
CWM-183-MW25	3/17/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	106	80	120
CWM-183-MW25	3/17/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	103	80	122
CWM-183-MW25	3/17/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	108	80	120
CWM-183-MW28	9/24/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	99	73	131
CWM-183-MW28	9/24/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	100	80	120
CWM-183-MW28	9/24/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	101	80	122
CWM-183-MW28	9/24/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	104	80	120
CWM-183-MW28	9/24/19	WG	FD	680-174693-1	SW8260B	1,2-Dichloroethane-D4	83	73	131
CWM-183-MW28	9/24/19	WG	FD	680-174693-1	SW8260B	4-Bromofluorobenzene	102	80	120
CWM-183-MW28	9/24/19	WG	FD	680-174693-1	SW8260B	Dibromofluoromethane	87	80	122
CWM-183-MW28	9/24/19	WG	FD	680-174693-1	SW8260B	Toluene-D8	90	80	120
CWM-183-MW28	3/17/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	100	73	131
CWM-183-MW28	3/17/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	106	80	120
CWM-183-MW28	3/17/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW28	3/17/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW31	9/24/19	WG	NS	680-174693-1	SW8260B	1,2-Dichloroethane-D4	82	73	131
CWM-183-MW31	9/24/19	WG	NS	680-174693-1	SW8260B	4-Bromofluorobenzene	104	80	120

Table D5-9: Summary of Surrogate Recoveries
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Sample Date	Matrix	QC Code	Delivery Group	Method	Parameter Name	%R	LCL	UCL
CWM-183-MW31	9/24/19	WG	NS	680-174693-1	SW8260B	Dibromofluoromethane	87	80	122
CWM-183-MW31	9/24/19	WG	NS	680-174693-1	SW8260B	Toluene-D8	91	80	120
CWM-183-MW31	3/17/20	WG	NS	680-181793-1	SW8260B	1,2-Dichloroethane-D4	101	73	131
CWM-183-MW31	3/17/20	WG	NS	680-181793-1	SW8260B	4-Bromofluorobenzene	107	80	120
CWM-183-MW31	3/17/20	WG	NS	680-181793-1	SW8260B	Dibromofluoromethane	101	80	122
CWM-183-MW31	3/17/20	WG	NS	680-181793-1	SW8260B	Toluene-D8	107	80	120
CWM-183-MW17	3/13/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	98	73	131
CWM-183-MW17	3/13/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	100	80	120
CWM-183-MW17	3/13/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW17	3/13/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	101	80	120
CWM-183-MW19	3/12/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	98	73	131
CWM-183-MW19	3/12/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	103	80	120
CWM-183-MW19	3/12/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW19	3/12/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	101	80	120
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	91	73	131
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	99	73	131
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	100	80	120
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	99	80	120
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	95	80	122
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	97	80	120
CWM-183-MW20	3/13/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	101	80	120
CWM-183-MW25	3/12/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	98	73	131
CWM-183-MW25	3/12/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	102	80	120
CWM-183-MW25	3/12/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	100	80	122
CWM-183-MW25	3/12/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	102	80	120
CWM-183-MW28	3/12/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	91	73	131
CWM-183-MW28	3/12/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	102	80	120
CWM-183-MW28	3/12/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	94	80	122
CWM-183-MW28	3/12/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	100	80	120
CWM-183-MW31	3/12/19	WG	NS	680-165887-1	SW8260B	1,2-Dichloroethane-D4	90	73	131
CWM-183-MW31	3/12/19	WG	NS	680-165887-1	SW8260B	4-Bromofluorobenzene	100	80	120
CWM-183-MW31	3/12/19	WG	NS	680-165887-1	SW8260B	Dibromofluoromethane	95	80	122
CWM-183-MW31	3/12/19	WG	NS	680-165887-1	SW8260B	Toluene-D8	101	80	120
TRIP BLANK (TB524)	3/13/19	WG	TB	680-165887-1	SW8260B	1,2-Dichloroethane-D4	92	73	131
TRIP BLANK (TB524)	3/13/19	WG	TB	680-165887-1	SW8260B	4-Bromofluorobenzene	100	80	120
TRIP BLANK (TB524)	3/13/19	WG	TB	680-165887-1	SW8260B	Dibromofluoromethane	95	80	122
TRIP BLANK (TB524)	3/13/19	WG	TB	680-165887-1	SW8260B	Toluene-D8	101	80	120
CWM-183-MW08	3/18/19	WG	NS	680-166100-1	SW8260B	1,2-Dichloroethane-D4	95	73	131
CWM-183-MW08	3/18/19	WG	NS	680-166100-1	SW8260B	4-Bromofluorobenzene	105	80	120
CWM-183-MW08	3/18/19	WG	NS	680-166100-1	SW8260B	Dibromofluoromethane	97	80	122
CWM-183-MW08	3/18/19	WG	NS	680-166100-1	SW8260B	Toluene-D8	102	80	120
CWM-183-MW09	3/18/19	WG	NS	680-166100-1	SW8260B	1,2-Dichloroethane-D4	95	73	131
CWM-183-MW09	3/18/19	WG	NS	680-166100-1	SW8260B	4-Bromofluorobenzene	105	80	120
CWM-183-MW09	3/18/19	WG	NS	680-166100-1	SW8260B	Dibromofluoromethane	97	80	122
CWM-183-MW09	3/18/19	WG	NS	680-166100-1	SW8260B	Toluene-D8	102	80	120
CWM-183-MW21	3/18/19	WG	NS	680-166100-1	SW8260B	1,2-Dichloroethane-D4	96	73	131
CWM-183-MW21	3/18/19	WG	NS	680-166100-1	SW8260B	4-Bromofluorobenzene	106	80	120
CWM-183-MW21	3/18/19	WG	NS	680-166100-1	SW8260B	Dibromofluoromethane	97	80	122
CWM-183-MW21	3/18/19	WG	NS	680-166100-1	SW8260B	Toluene-D8	104	80	120

Table D5-9: Summary of Surrogate Recoveries
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Station Name	Sample Date	Matrix	QC Code	Delivery Group	Method	Parameter Name	%R	LCL	UCL
CWM-183-MW22	3/18/19	WG	NS	680-166100-1	SW8260B	1,2-Dichloroethane-D4	97	73	131
CWM-183-MW22	3/18/19	WG	NS	680-166100-1	SW8260B	4-Bromofluorobenzene	107	80	120
CWM-183-MW22	3/18/19	WG	NS	680-166100-1	SW8260B	Dibromofluoromethane	97	80	122
CWM-183-MW22	3/18/19	WG	NS	680-166100-1	SW8260B	Toluene-D8	102	80	120
CWM-183-MW23	3/18/19	WG	NS	680-166100-1	SW8260B	1,2-Dichloroethane-D4	98	73	131
CWM-183-MW23	3/18/19	WG	NS	680-166100-1	SW8260B	4-Bromofluorobenzene	104	80	120
CWM-183-MW23	3/18/19	WG	NS	680-166100-1	SW8260B	Dibromofluoromethane	99	80	122
CWM-183-MW23	3/18/19	WG	NS	680-166100-1	SW8260B	Toluene-D8	102	80	120
TRIP BLANK (TB523)	3/18/19	W	TB	680-166100-1	SW8260B	1,2-Dichloroethane-D4	92	73	131
TRIP BLANK (TB523)	3/18/19	W	TB	680-166100-1	SW8260B	4-Bromofluorobenzene	106	80	120
TRIP BLANK (TB523)	3/18/19	W	TB	680-166100-1	SW8260B	Dibromofluoromethane	95	80	122
TRIP BLANK (TB523)	3/18/19	W	TB	680-166100-1	SW8260B	Toluene-D8	103	80	120

Notes:
FD = Filed duplicate
LCL = Lower conrol limit
NS = Normal sample
%R = Percent recovery
QC = Quality control
TB = Trip blank
UCL = Upper control limit
W = Water
WG = Ground water

Table D6-1: Reporting Limits and Method Detection Limits Compared to RBTLs
Training Area T-6 and Cane Creek Training Area,
McClellan, Anniston, Alabama

Matrix	Method	Parameter Name	MDL	RL	Units	Groundskeeper RBTL
WG	SW8260B	1,1,2,2-Tetrachloroethane	0.62	1	µg/L	13.6
WG	SW8260B	1,1,2-Trichloroethane	0.33	1	µg/L	50.2
WG	SW8260B	1,1-Dichloroethene	0.36	1	µg/L	4800
WG	SW8260B	1,2-Dichloroethane	0.38	1	µg/L	30.8
WG	SW8260B	Chloroethane	2.5	5	µg/L	955
WG	SW8260B	Chloroform	0.5	1	µg/L	986
WG	SW8260B	Chloromethane	0.4	2	µg/L	216
WG	SW8260B	Cis-1,2-Dichloroethene	0.41	1	µg/L	991
WG	SW8260B	Methylene Chloride	2.5	5	µg/L	375
WG	SW8260B	Tetrachloroethene	0.74	1	µg/L	4.43
WG	SW8260B	Trans-1,2-Dichloroethene	0.37	1	µg/L	1950
WG	SW8260B	Trichloroethene	0.48	1	µg/L	205
WG	SW8260B	Vinyl Chloride	0.5	1	µg/L	3.86

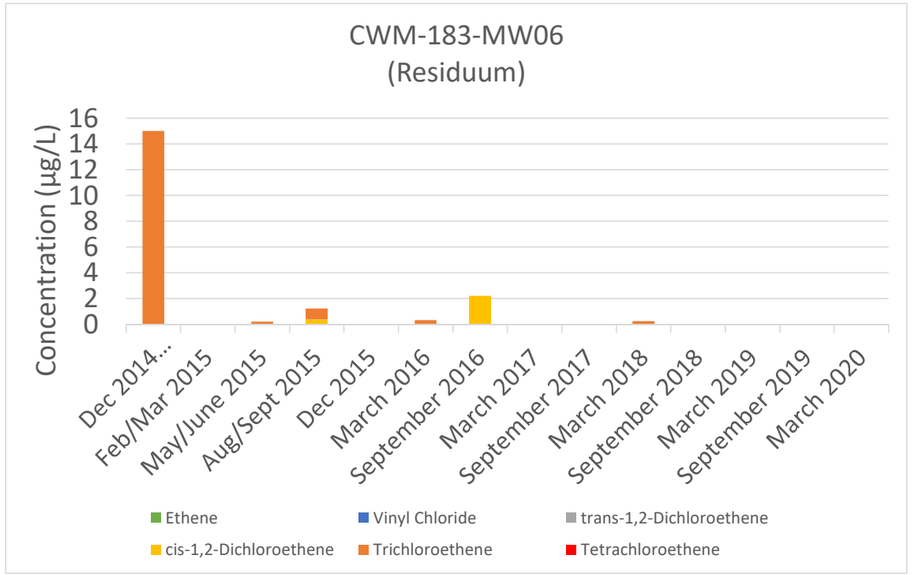
Notes:
MDL = Method detection limit
µg/L = micrograms per liter
RL = Reporting limit
RBTL = Risk-Based Target Level
WG = Groundwater

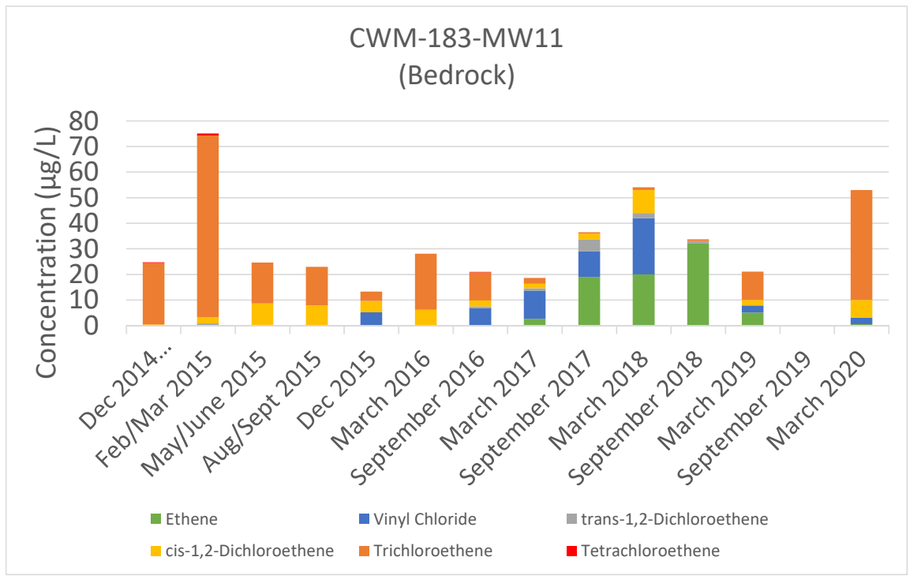
APPENDIX E

ANALYTICAL DATA

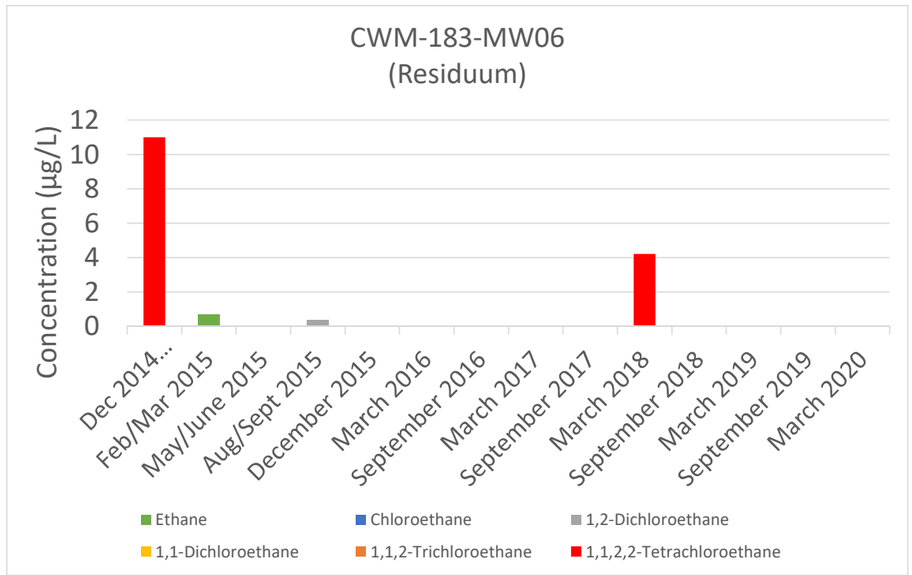
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway





Chlorinated Ethane Pathway



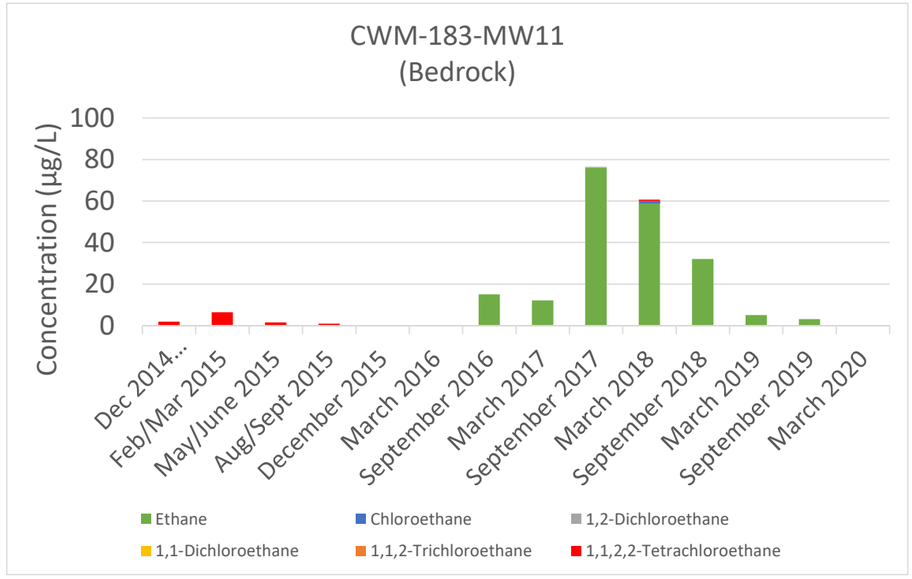
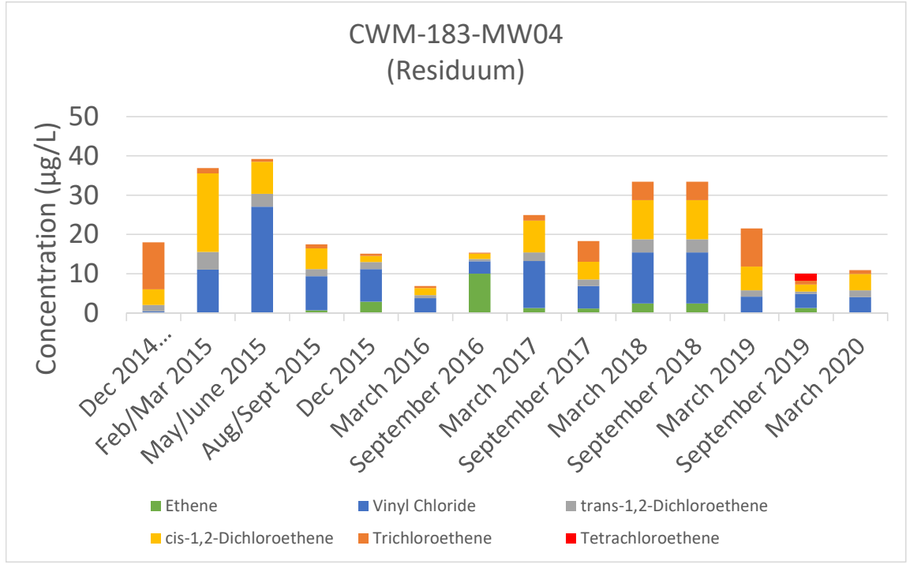
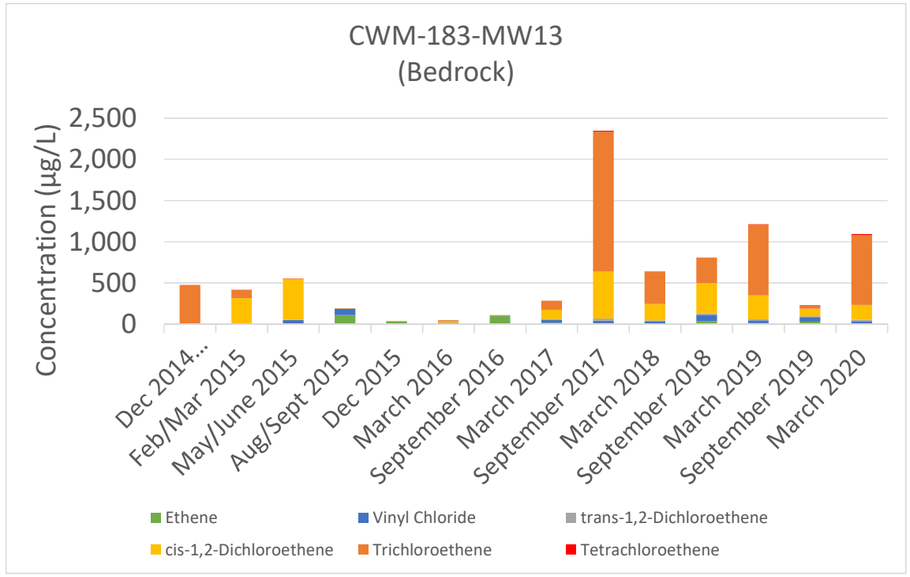


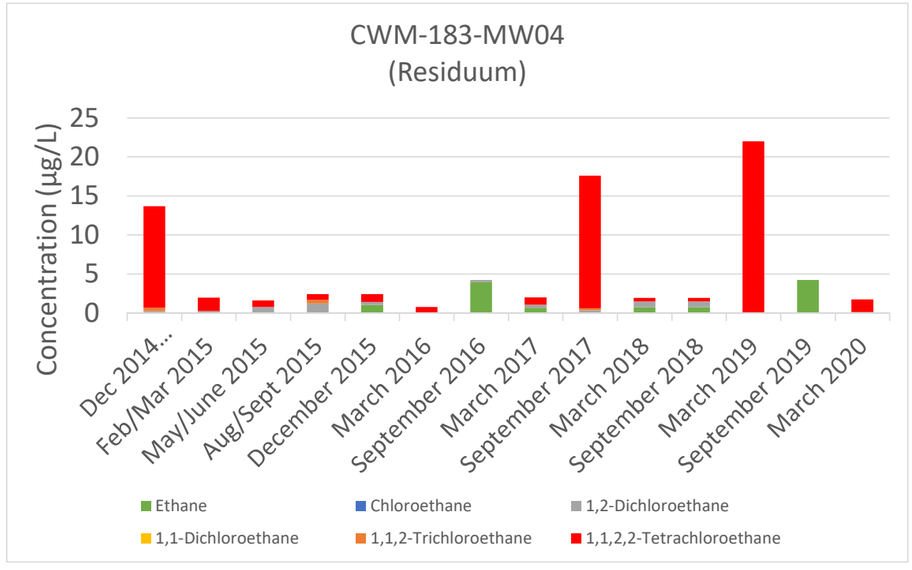
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway





Chlorinated Ethane Pathway



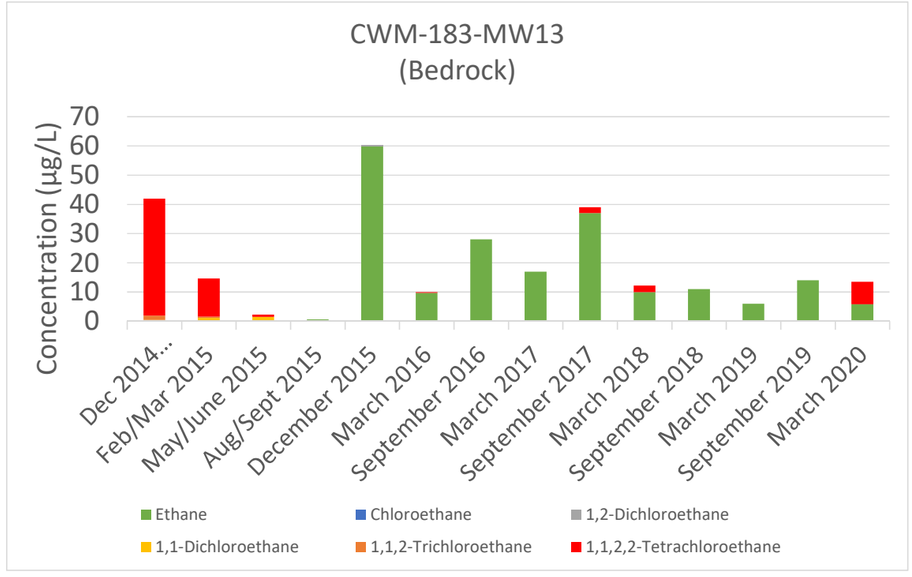
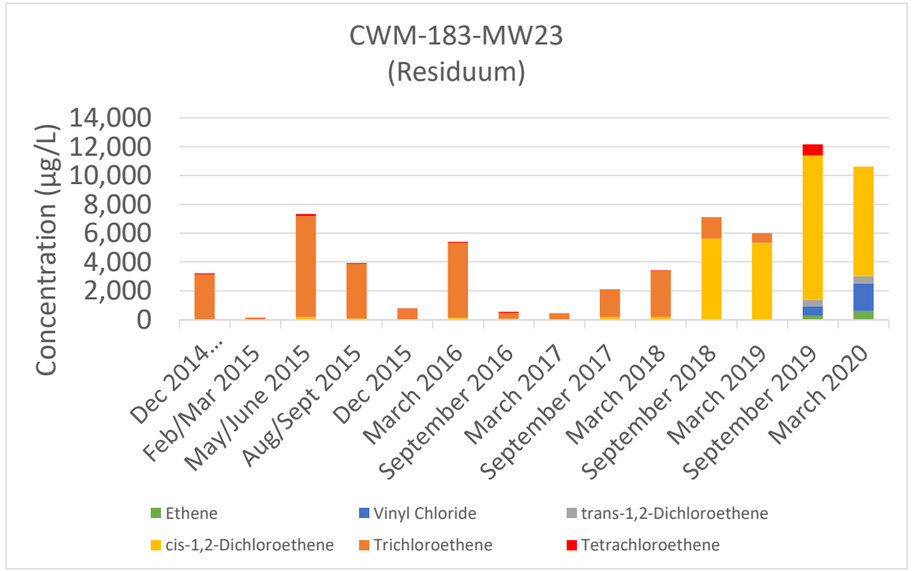
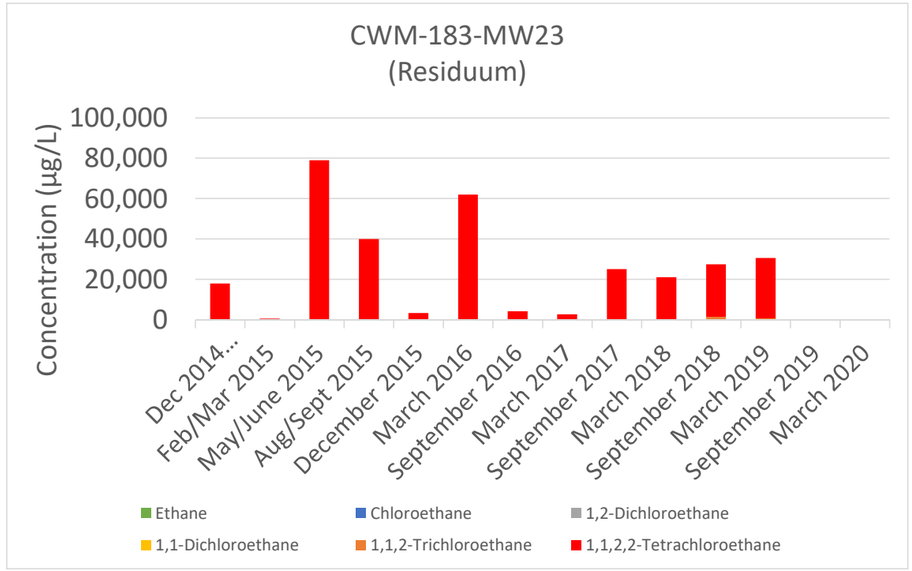


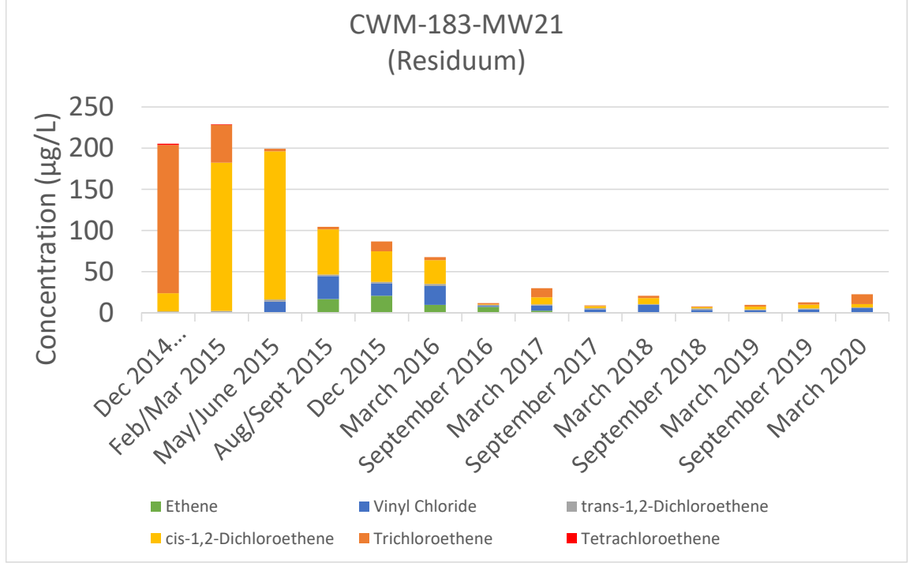
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway



Chlorinated Ethane Pathway





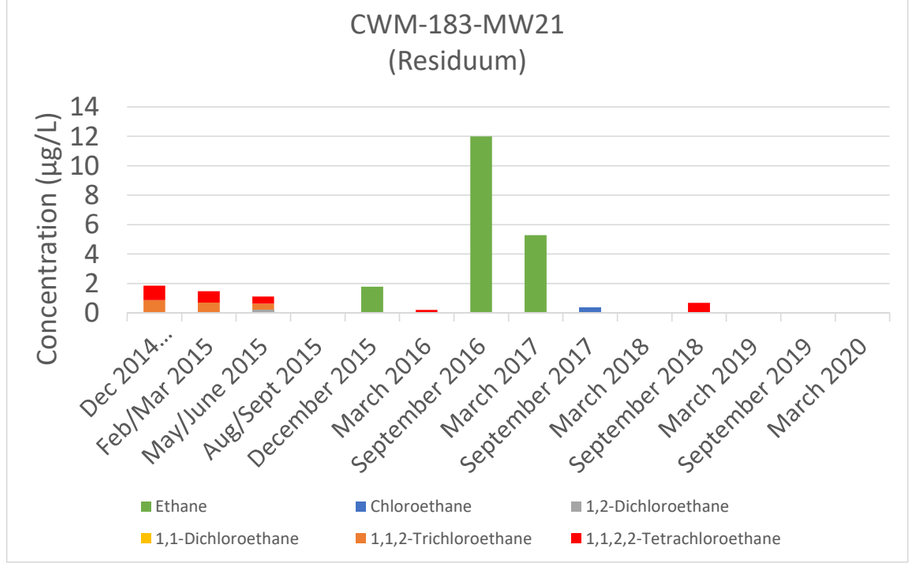
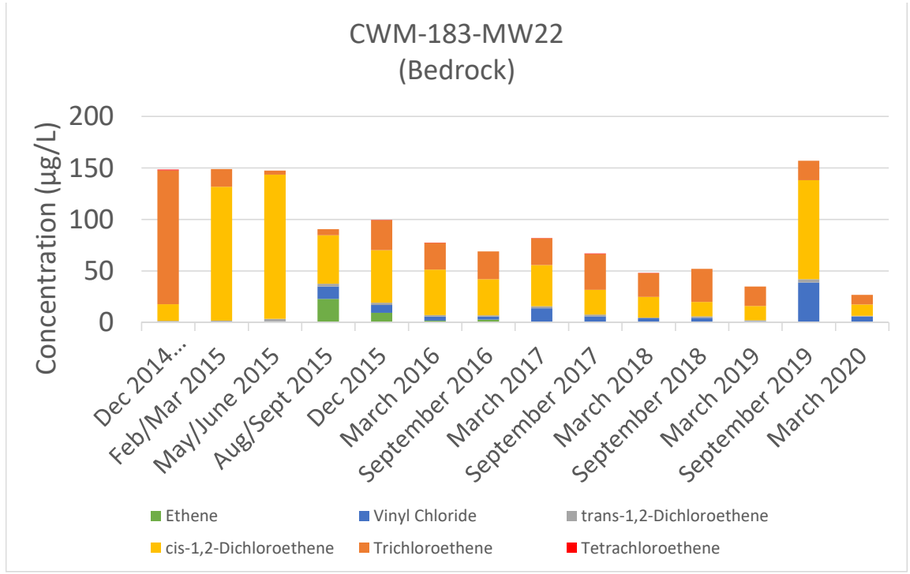
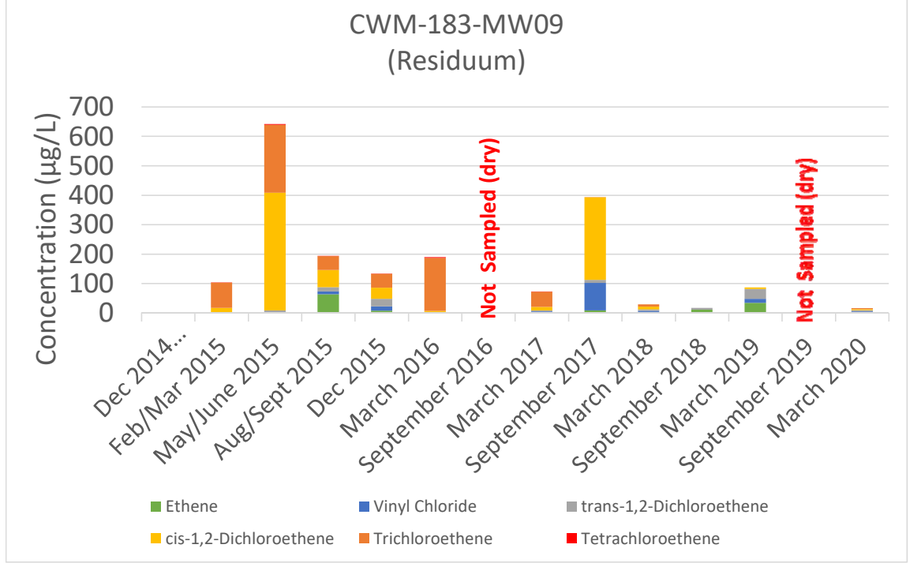


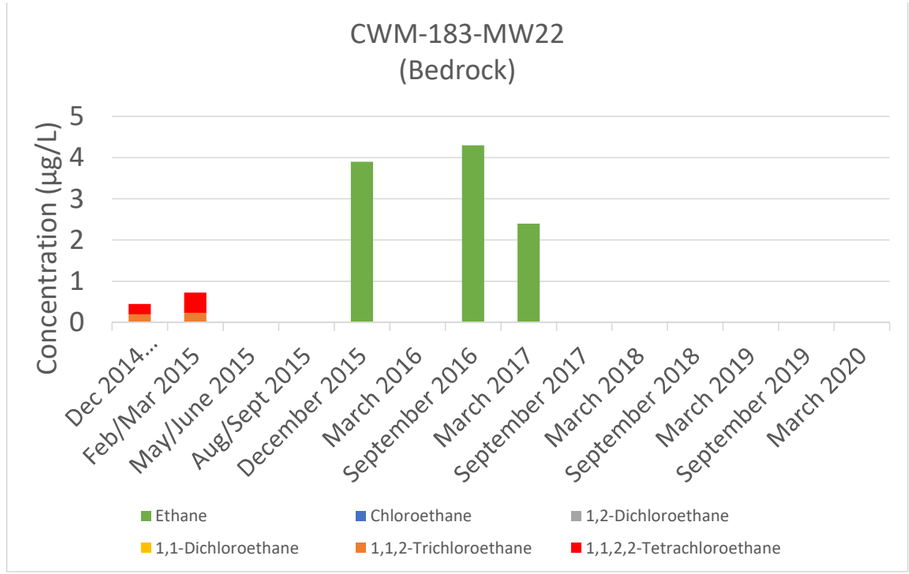
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway





Chlorinated Ethane Pathway



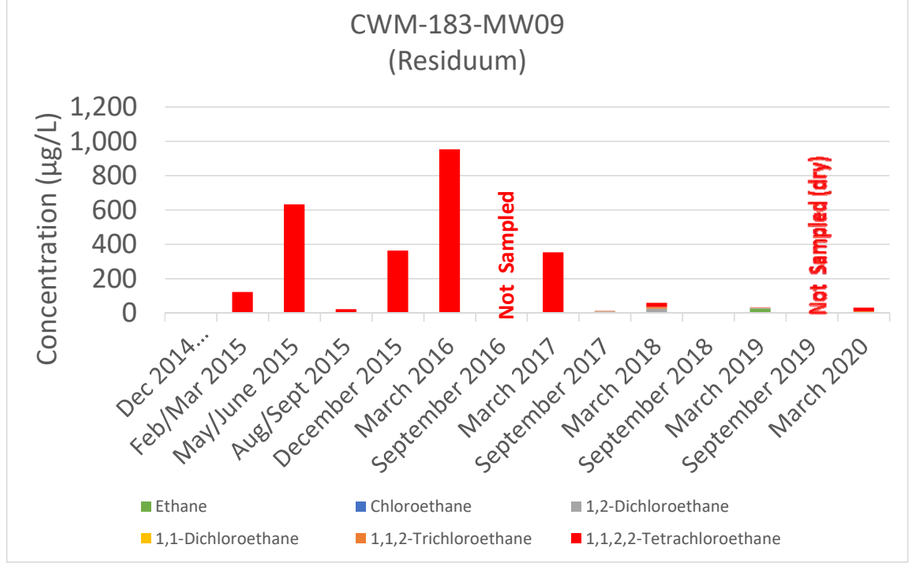
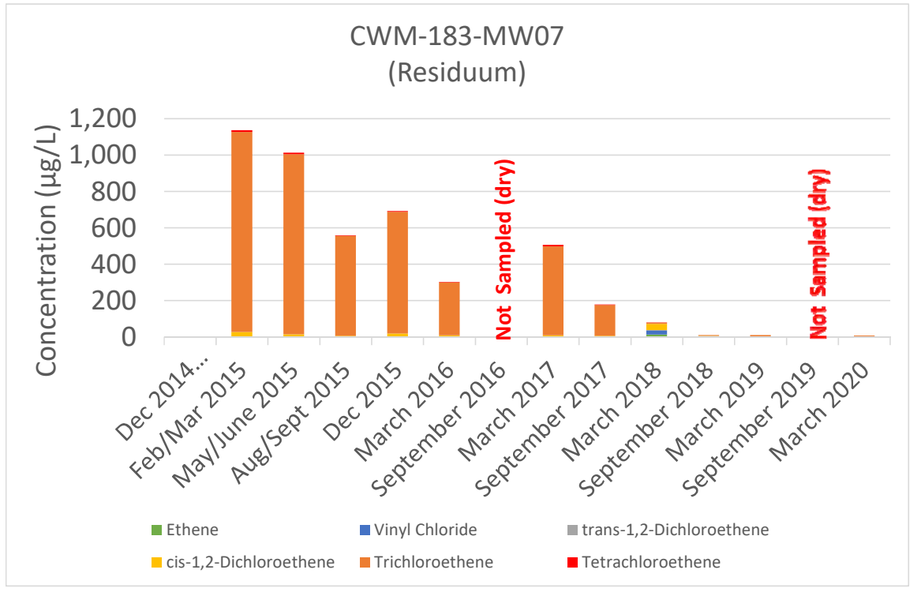
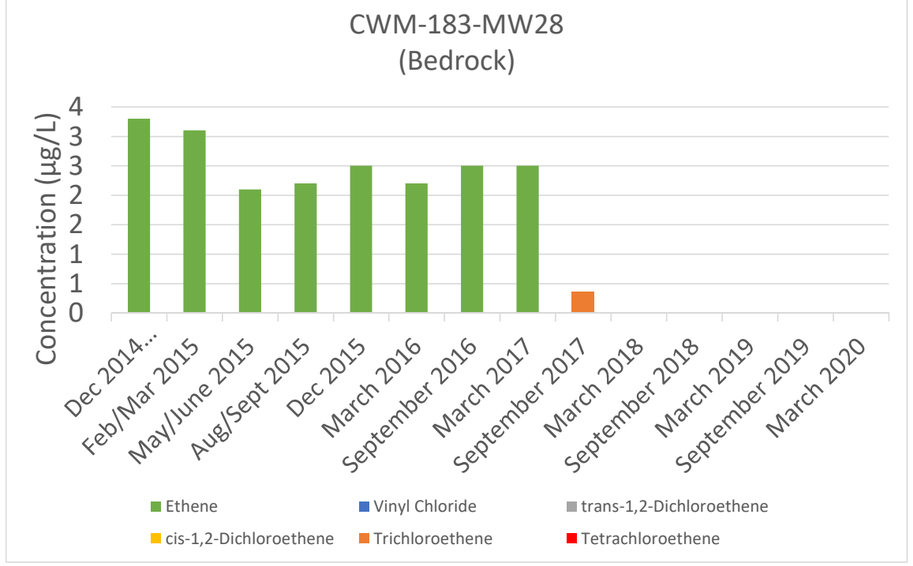


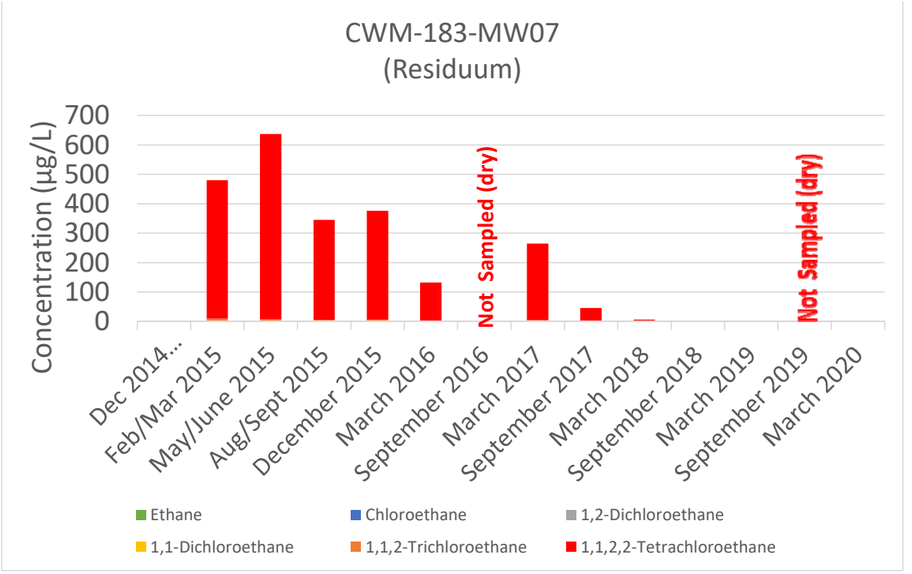
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway





Chlorinated Ethane Pathway



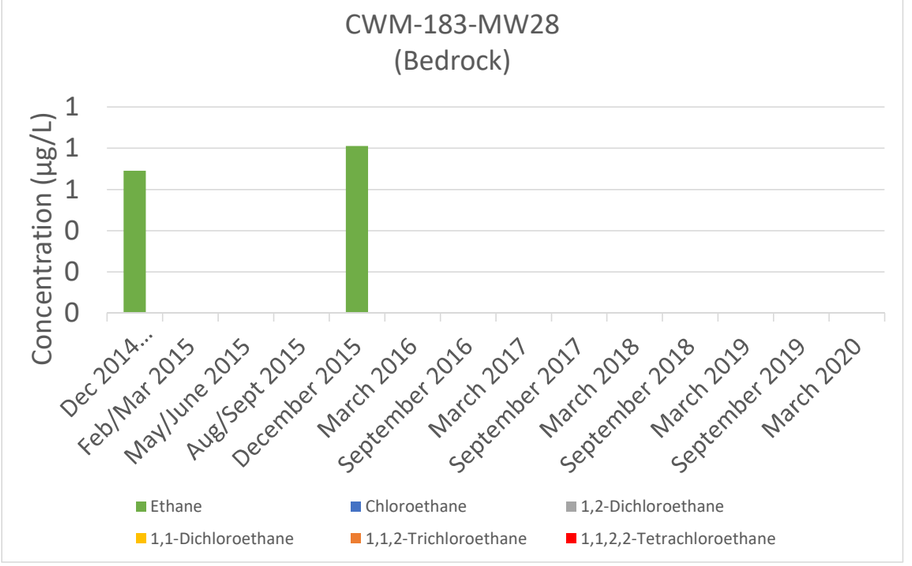
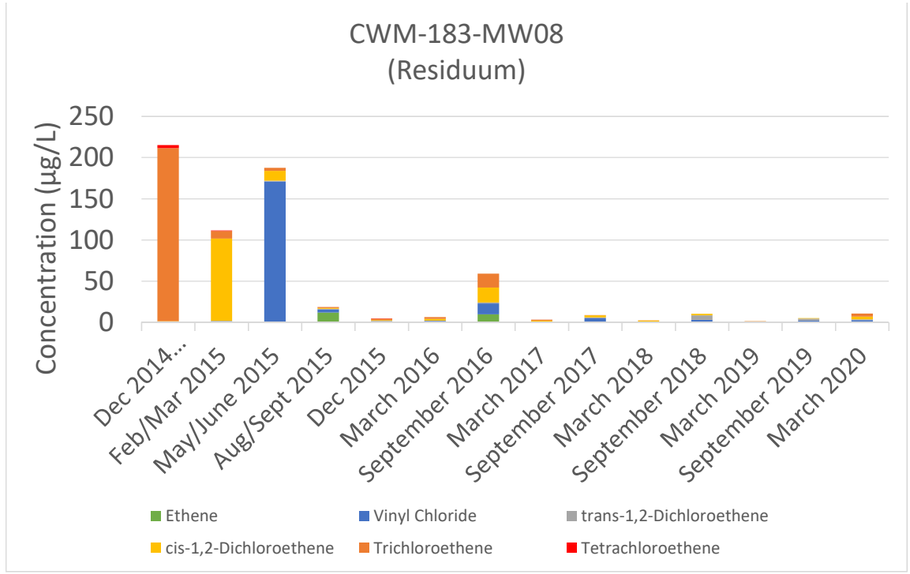
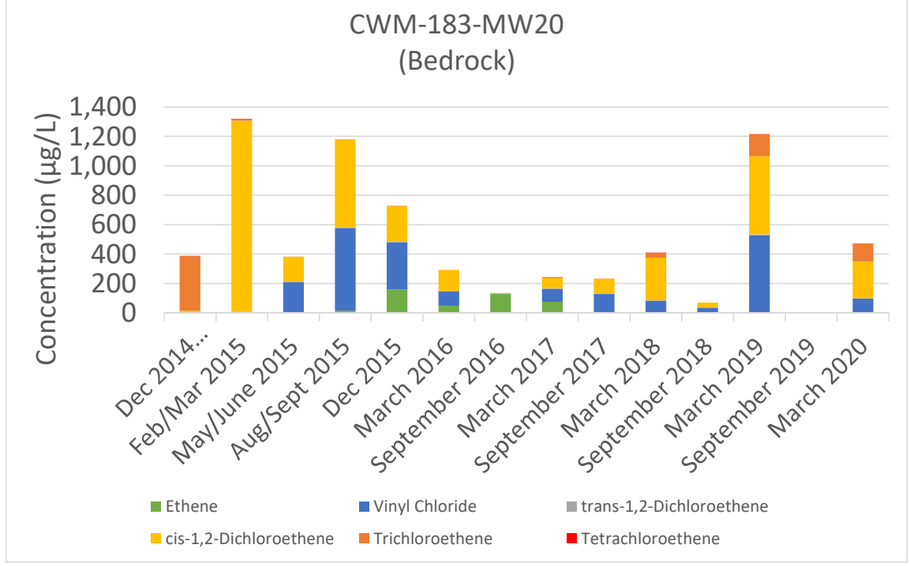


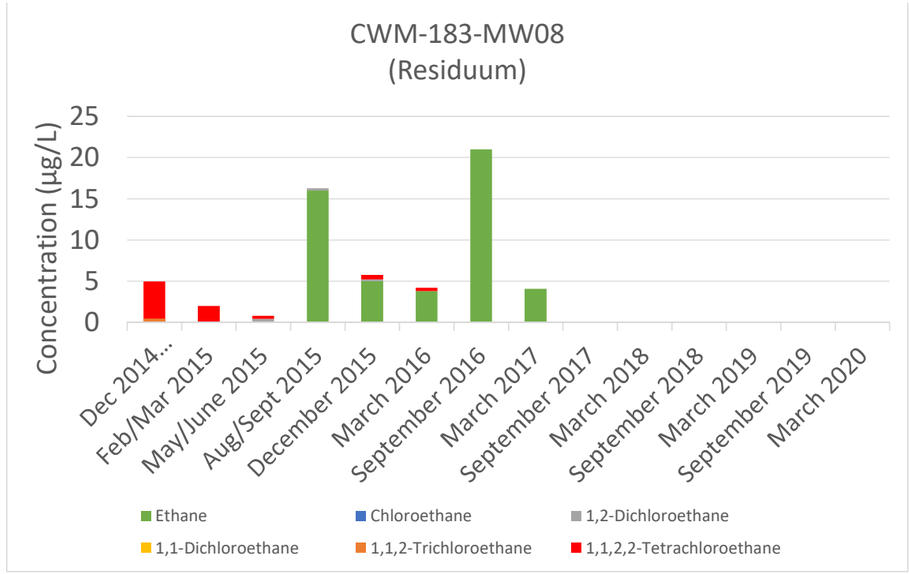
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway





Chlorinated Ethane Pathway



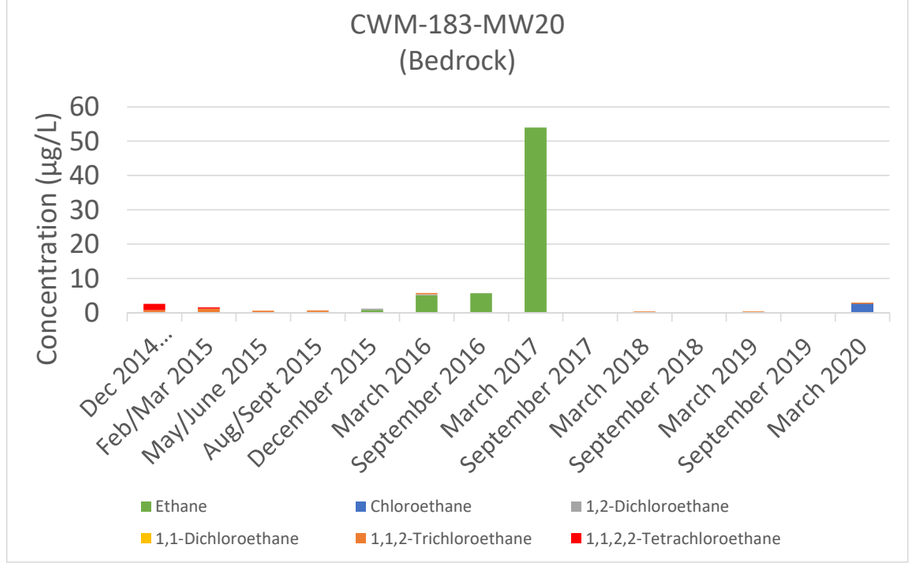
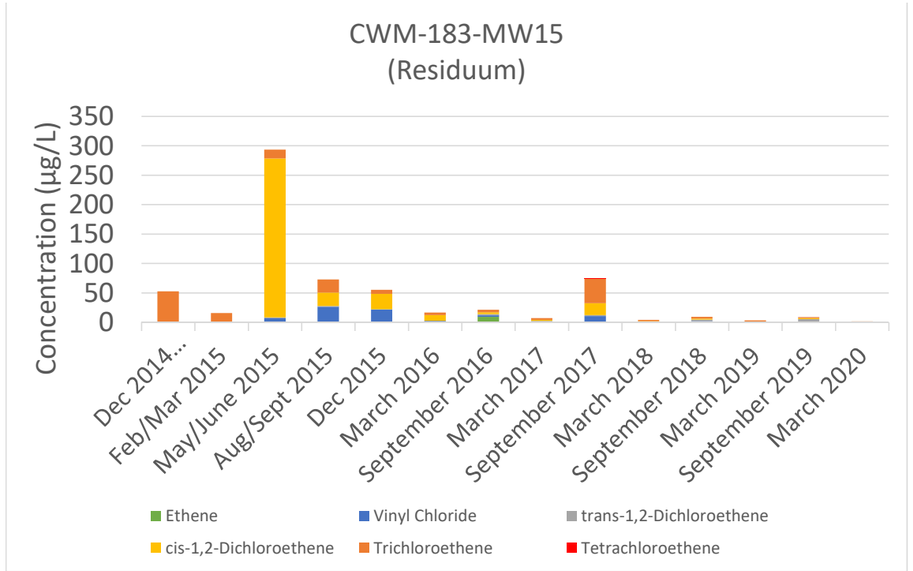
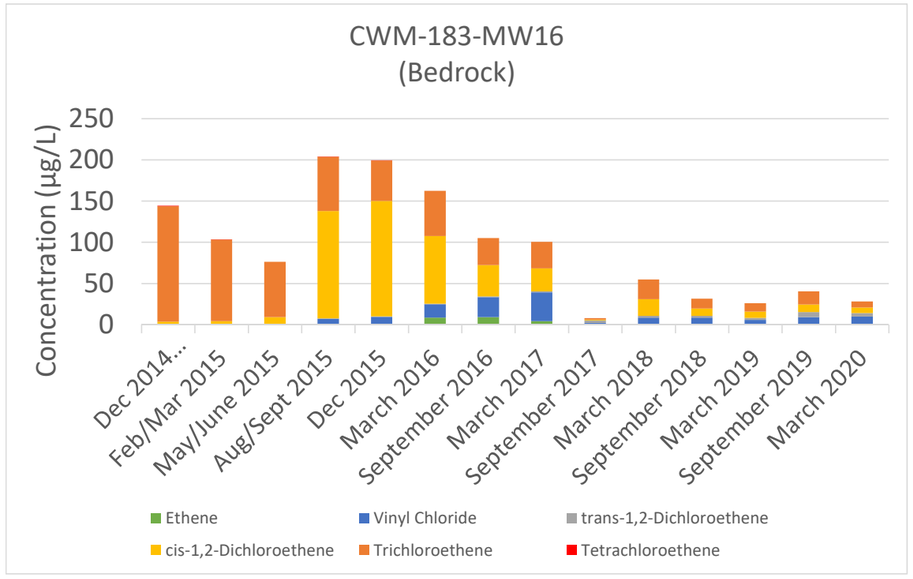


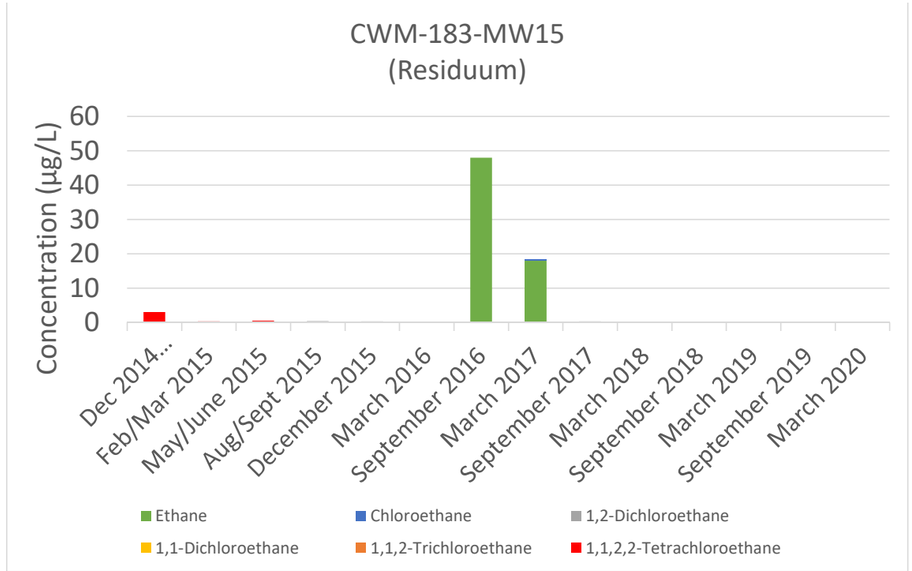
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway





Chlorinated Ethane Pathway



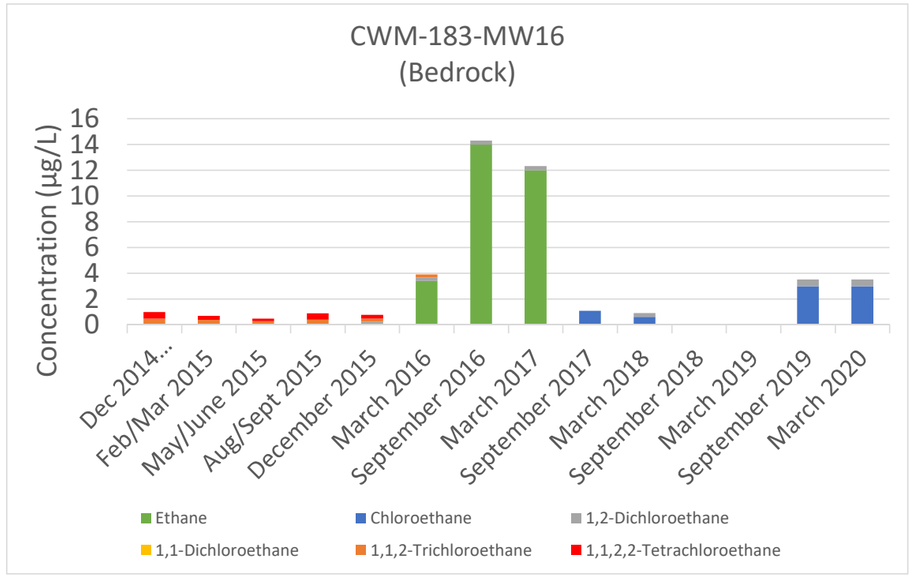
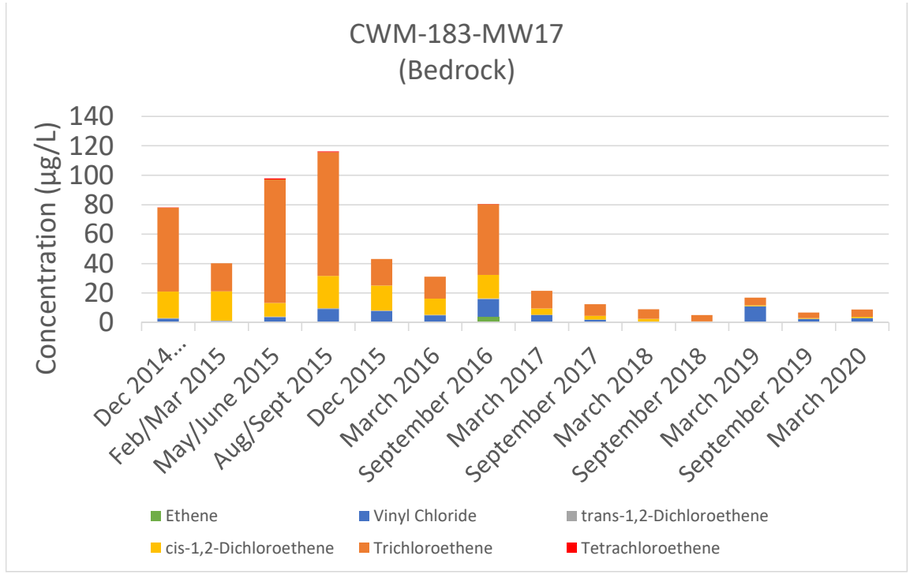
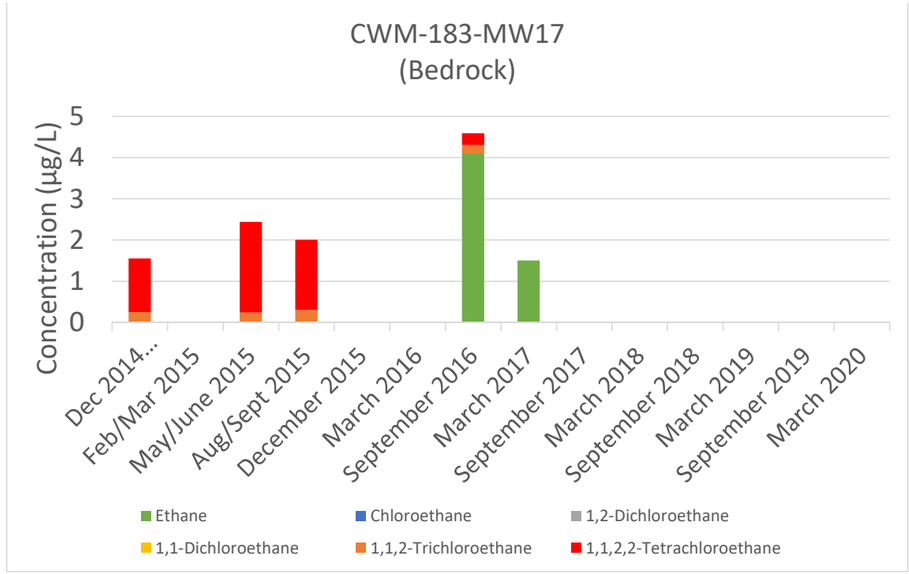


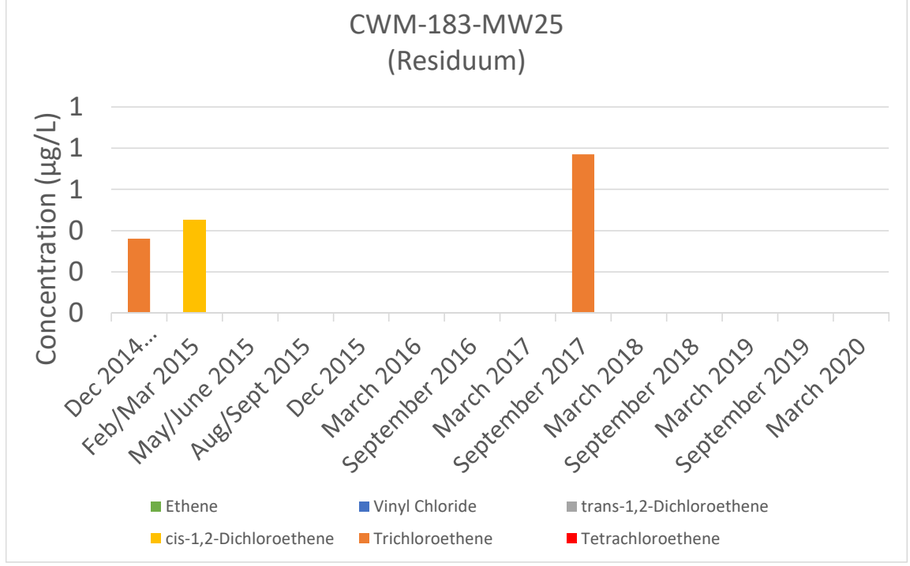
Figure E-1: Chlorinated Ethene and Chlorinated Ethane Composition in Groundwater
Training Area T-6 and Cane Creek Training Area 510(7)
McClellan, Anniston, Alabama

Chlorinated Ethene Pathway



Chlorinated Ethane Pathway





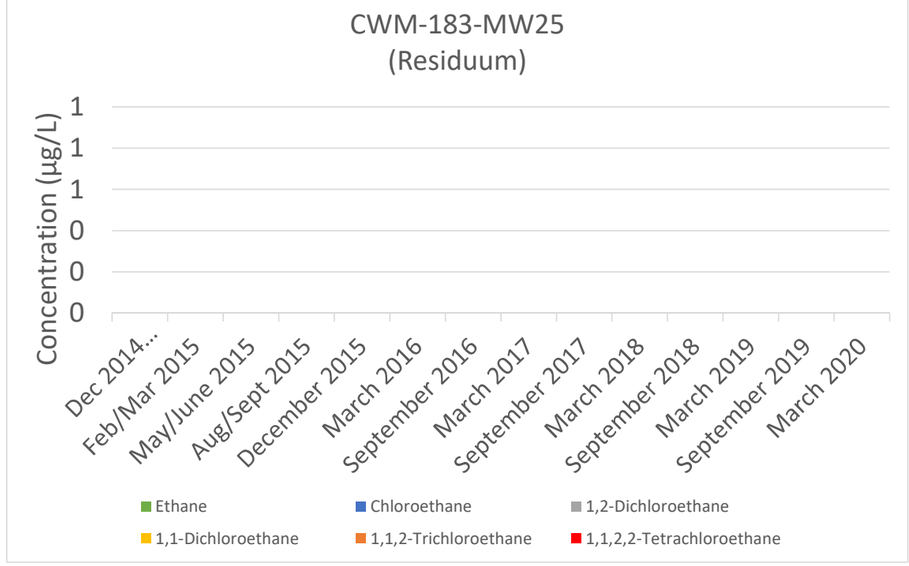


Table E1: Groundwater Analytical Results for UIC Permit Wells, Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW03 6/2/15	CWM-183-MW05 5/29/15	CWM-183-MW15 5/29/15	CWM-183-MW03 9/1/15	CWM-183-MW05 8/27/15	CWM-183-MW15 8/27/15	CWM-183-MW03 12/9/15	CWM-183-MW05 12/9/15	CWM-183-MW15 12/9/15
SM4500NH3-F	Ammonia (NH3-N)	mg/L	< 0.1	Dry	< 0.1	< 0.1	Dry	< 0.1	< 0.1	Dry	< 0.1
SW9056	Nitrate-N	mg/L	< 0.1	Dry	< 0.1	0.0503 J	Dry	< 0.1	< 0.1	Dry	< 0.1
SW9056	Sulfate	mg/L	3.87	Dry	1.63	8.23	Dry	1.54	4.43	Dry	2.32
SW9060	TOC	mg/L	3.16	Dry	0.629 J	2.58	Dry	0.648 J	2.77	Dry	0.732 J

Method	Parameter Name	Units	CWM-183-MW03 3/1/16	CWM-183-MW05 3/1/16	CWM-183-MW15 3/1/16	CWM-183-MW03 8/3/16	CWM-183-MW05 8/3/16	CWM-183-MW15 8/3/16	CWM-183-MW03 9/27/16	CWM-183-MW05 9/27/16	CWM-183-MW15 9/27/16
SM4500NH3-F	Ammonia (NH3-N)	mg/L	0.103	Dry	0.103	0.231	Dry	0.253	<0.1	Dry	< 0.1
SW9056	Nitrate-N	mg/L	< 0.1	Dry	< 0.1	<0.1	Dry	< 0.1	0.063 J	Dry	< 0.1
SW9056	Sulfate	mg/L	3.66	Dry	2.52	5.55	Dry	1.37	5.35	Dry	1.57
SW9060	TOC	mg/L	2.92	Dry	0.755 J	NS	Dry	NS	NS	Dry	NS

Method	Parameter Name	Units	CWM-183-MW03 3/15/17	CWM-183-MW05 3/20/17	CWM-183-MW15 3/20/17	CWM-183-MW03 9/13/17	CWM-183-MW05 9/13/17	CWM-183-MW15 9/13/17	CWM-183-MW03 3/13/18	CWM-183-MW05 3/13/18	CWM-183-MW15 3/13/18
SM4500NH3-F	Ammonia (NH3-N)	mg/L	0.102	Dry	0.0814 J	<0.1	0.117	0.0667 J	0.0644 J	0.14	0.067 J
SW9056	Nitrate-N	mg/L	<0.1	Dry	<0.1	0.0609 J (UB)	0.344 J (UB)	< 0.1	0.053 J	0.0503 J	0.0501 J
SW9056	Sulfate	mg/L	5.09	Dry	2.81	4.31	5.3	4.95	1.55	9.74	3.32
SW9060	TOC	mg/L	NS	Dry	NS	NS	NS	NS	NS	NS	NS

Method	Parameter Name	Units	CWM-183-MW03 6/12/18	CWM-183-MW05 6/11/18	CWM-183-MW15 6/12/18	CWM-183-MW03 9/18/18	CWM-183-MW05 9/18/18	CWM-183-MW15 9/18/18	CWM-183-MW03 3/13/19	CWM-183-MW05 3/13/19	CWM-183-MW-15 3/13/19
SM4500NH3-F	Ammonia (NH3-N)	mg/L	< 0.25	Dry	< 0.25	< 0.25	Dry	< 0.25	< 0.25	Dry	< 0.25
SW9056	Nitrate-N	mg/L	< 0.05	Dry	< 0.05	< 0.05	Dry	< 0.05	< 0.05	Dry	< 0.05
SW9056	Sulfate	mg/L	3.3	Dry	2.5	7.1	Dry	3.5	1.9	Dry	2.5
SW9060	TOC	mg/L	NS	Dry	NS	NS	Dry	NS	NS	Dry	NS

Table E1: Groundwater Analytical Results for UIC Permit Wells, Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW03 9/23/19	CWM-183-MW05 9/23/19	CWM-183-MW15 9/23/19
SM4500NH3-F	Ammonia (NH3-N)	mg/L	< 0.25	Dry	< 0.25
SW9056	Nitrate-N	mg/L	< 0.05	Dry	< 0.05
SW9056	Sulfate	mg/L	4.2	Dry	2.2
SW9060	TOC	mg/L	NS	Dry	NS

Notes:
< = Analyte was not detected at the reported quantitation limit shown.
Dry = well was dry or insufficient water for sample collection
mg/L = milligrams per liter
NS = not sampled

Lab Flags:
J = Estimated detection. The analyte is positively identified and the concentration is less than

Validation Flags (in parentheses):
UJ = Analyte was analyzed for but not detected. The reported quantitation limit is estimated.

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW04 12/12/14	CWM-183-MW04 2/24/15	CWM-183-MW04 6/1/15	CWM-183-MW04 8/26/15	CWM-183-MW04 12/1/15	CWM-183-MW04 3/2/16	CWM-183-MW04 9/26/16	CWM-183-MW04 3/15/17	CWM-183-MW04 9/14/17	CWM-183-MW04 3/15/18	CWM-183-MW04 3/12/19	CWM-183-MW04 9/26/19	CWM-183-MW04 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	13	1.7	0.85 J	0.75 J	1.0	0.73 J	< 1.0	0.95 J	17	0.46 J	22	< 1	1.6
SW8260B	1,1,2-Trichloroethane	µg/L	0.43 J	< 1.0	< 1.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.2 J	< 1	0.27 J	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	0.22 J	0.24 J	0.74 J	1.2	0.38 J	< 1.0	0.32 J	0.37 J	0.32 J	0.75 J	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	4.0	20	8.2	5.3	1.6	1.8	1.3	8.1	4.5	10	6.1	1.8 B (UB)	4.2
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	1.8 B (UB)	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	1.6	4.5	3.3	1.8	1.8	0.80 J	0.63 J	2.2	1.7	3.3	1.6	0.58 J	1.7
SW8260B	Trichloroethene	µg/L	12	1.4	0.67 J	1.0 J	0.58 J	0.50 J	0.28 J	1.4	5.3	4.7	9.7	1.0	1.0
SW8260B	Vinyl Chloride	µg/L	0.38 J	11	27 (JM)	8.7	8.3	3.7	3.1	12	5.7	13	4.1	3.6	4.0
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	1.0 J	< 1.5	3.9	0.65 J	< 1.5	0.7 J	< 1.1	4.2	< 1.1
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	0.63 J	2.8	< 1.5	1.2 J	1.2 J	1.1 J	2.4	< 1	1.2	< 1
RSK-175	Methane	µg/L	1.3	1000	8300	9900	3500	920	3000	720	410	520	230	290	77
SW9056	Bromide	mg/L	< 0.5	1.69	1.39	1.15	1.01	< 0.5	--	--	--	--	--	--	--
SW9056	Chloride-Cl	mg/L	2.72	3.72	5.24	6.56	3.98	2.11	--	--	--	--	--	--	--
SM4500	Ammonia	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
SW9056	Nitrate-N	mg/L	0.071 J	< 0.1	< 0.1	0.053 J	0.0986 J	< 0.1	--	--	--	--	--	--	--
SW9056	Sulfate	mg/L	9.82	5.8	1.25	1.57	3.76	5.13	--	--	--	--	--	--	--
SW9060	TOC	mg/L	3.64	17.9	10.3	8.15	5.05	5.77	3.98	6.96	4.38	3.48	2.4	3.8	2.4

Method	Parameter Name	Units	CWM-183-MW06 12/15/14	CWM-183-MW06 3/2/15	CWM-183-MW06 6/2/15	CWM-183-MW06 8/31/15	CWM-183-MW06 12/3/15	CWM-183-MW06 3/2/16	CWM-183-MW06 9/23/16	CWM-183-MW06 3/16/17	CWM-183-MW06 9/13/17	CWM-183-MW06 3/15/18	CWM-183-MW06 9/17/18	CWM-183-MW06 3/12/19	CWM-183-MW06 9/25/19	CWM-183-MW06 3/19/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	4.2	< 1	< 1	< 1 *	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5 *	< 5
SW8260B	Chloroform	µg/L	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1 *	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	2.2	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.57 J	0.77 J (UB)	< 2	< 2	< 2	< 5	< 5	< 5 *	< 5
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1 *	< 1
SW8260B	Trichloroethene	µg/L	15	< 1.0	0.2 J	0.84 J	< 1.0	0.31 J	< 1.0	< 1.0	< 1	0.23 J	< 1	< 1	< 1 *	< 1
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1 *	< 1
RSK-175	Ethane	µg/L	< 1.5	0.68 J	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.1	< 1.1	3.8	< 1.1
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1	< 1	< 1	< 1
RSK-175	Methane	µg/L	< 1.2	0.94 J	1300	3300	1500	4500	5600	1000	1800	38	4000	360	640	0.85
SW9056	Bromide	mg/L	4.04	4.75	4.26	2.27	2.3	2.8	--	--	--	--	--	--		
SW9056	Chloride-Cl	mg/L	73.2	14.5	36.1	47.2	12.5	5.99	--	--	--	--	--	--		
SW9056	Nitrate-N	mg/L	0.34	0.052 J	< 0.1	< 0.1	< 0.1	< 0.1	--	--	--	--	--	--		
SW9056	Sulfate	mg/L	5.19	6.47	1.4	1.08	2.06	1.4	--	--	--	--	--	--		
SW9060	TOC	mg/L	0.757 J	36.3	28.8	86.4	11.9	5.08	2.18	3.66	1.99	1.26	0.72 J	0.71 J	< 1	0.80 J

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW07 12/11/14	CWM-183-MW07 2/25/15	CWM-183-MW07 6/4/15	CWM-183-MW07 9/1/15	CWM-183-MW07 12/7/15	CWM-183-MW07 3/8/16	CWM-183-MW07 9/27/16	CWM-183-MW07 3/20/17	CWM-183-MW07 9/18/17	CWM-183-MW07 3/15/18	CWM-183-MW07 6/11/18	CWM-183-MW07 3/13/19	CWM-183-MW07 3/19/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	Dry	470	630	340	370	130	Dry	260	45	4.2	1.5	2.9	1.3
SW8260B	1,1,2-Trichloroethane	µg/L	Dry	9.3	6.7	5.1	6.0	1.9	Dry	4.2	0.48 J	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	Dry	0.26 J	< 1.0	< 1.0	1.7	0.34 J	Dry	0.75 J	< 1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	Dry	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	Dry	< 1.0	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	Dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	Dry	< 2	< 2	< 2	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	Dry	22	19	15	13	4.4	Dry	9.9	3.7	0.41 J	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	Dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	Dry	< 2	< 2	< 2	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	Dry	24	13	4.8	15	6.6	Dry	7.1	5	33	2.1	0.84 J	1.5
SW8260B	Methylene Chloride	µg/L	Dry	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2.0	Dry	< 2	< 2	< 2	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	Dry	10	8.9	2.8	4.7	3.2	Dry	7.1	2.1	0.33 J	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	Dry	1.4	0.72 J	0.29 J	0.89 J	0.51 J	Dry	0.45 J	< 1	3.9	0.68 J *	< 1	< 1
SW8260B	Trichloroethene	µg/L	Dry	1100	990	550	670	290	Dry	490	170	7.4	4.7	7.9	5.6
SW8260B	Vinyl Chloride	µg/L	Dry	0.52 J	0.35 J	< 0.8	1.4	0.92	Dry	0.2 J	< 0.8	21	1.2	< 1	< 1
RSK-175	Ethane	µg/L	Dry	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	Dry	< 1.5	< 1.5	2.1	0.6 J	< 1.1	< 1.1
RSK-175	Ethene	µg/L	Dry	< 1.5	< 1.5	< 1.5	< 1.5	0.64 J	Dry	< 1.5	< 1.5	12	1.3	< 1	< 1
RSK-175	Methane	µg/L	Dry	13	0.92 J	0.63 J	3.8	43	Dry	< 1.2	190	2600	560	0.60	< 0.58
SW9060	TOC	mg/L	Dry	0.863 J	0.993 J	1.01	0.956 J	0.735 J	Dry	--	1.36	3.06	2.9	0.58 J	1.4

Method	Parameter Name	Units	CWM-183-MW08 12/11/14	CWM-183-MW08 2/26/15	CWM-183-MW08 6/2/15	CWM-183-MW08 8/25/15	CWM-183-MW08 12/7/15	CWM-183-MW08 3/7/16	CWM-183-MW08 9/27/16	CWM-183-MW08 3/16/17	CWM-183-MW08 9/14/17	CWM-183-MW08 3/14/18	CWM-183-MW08 9/18/18	CWM-183-MW08 3/18/19	CWM-183-MW08 9/25/19	CWM-183-MW08 3/19/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	4.5	2.0	0.38 J	< 1.0	0.53 J	0.41 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.47 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	0.66 J	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	0.44 J	0.27 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	1.6	100	12	0.98 J	1.0	2.1	18	1.7	2.5	1.1	1.7	0.6 J	1 U^ (UB)	3.2
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	3.6	0.6 J	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	0.2 J	0.9 J	0.98 J	0.29 J	0.37 J	1.3	< 1.0	1.1	0.3 J	5.7	< 1	2.2 B	0.92 J
SW8260B	Trichloroethene	µg/L	210	9.0	3.8	1.2	1.8	2.1	17	1.1	0.49 J	0.39 J	< 1	0.5 J	< 1	3.8
SW8260B	Vinyl Chloride	µg/L	< 0.8	1.7	170	3.7	1.6	1.9	13	0.66 J	5	0.77 J	3.1	0.59 J	2.4	2.9
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	16	5.0	3.8	21	4.1	--	--	--	--	--	--
RSK-175	Ethene	µg/L	< 1.5	< 1.5	0.97 J	12	< 1.5	< 1.5	10	< 1.5	--	--	--	--	--	--
RSK-175	Methane	µg/L	< 1.2	16	3600	12000	3000	1800	2600	1100	--	--	--	--	--	--
SW9060	TOC	mg/L	1.62	5.43	18.7	11.8	3.91	1.26	--	--	--	--	--	--	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW09 12/11/14	CWM-183-MW09 3/3/15	CWM-183-MW09 6/4/15	CWM-183-MW09 9/1/15	CWM-183-MW09 12/9/15	CWM-183-MW09 3/8/16	CWM-183-MW09 9/27/16	CWM-183-MW09 3/20/17	CWM-183-MW09 9/18/17	CWM-183-MW09 3/15/18	CWM-183-MW09 6/11/18	CWM-183-MW09 9/19/18	CWM-183-MW09 3/18/19	CWM-183-MW09 9/25/19	CWM-183-MW09 3/19/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	Dry	120	630	22	360	950	Dry	350	0.21 J	24	< 1	< 1	2.2	Dry	20
SW8260B	1,1,2-Trichloroethane	µg/L	Dry	2.1	2.1	< 1.0	2.0	3.2	Dry	2.7	1.5	10	< 1	< 1	0.79 J	Dry	8.3
SW8260B	1,1-Dichloroethene	µg/L	Dry	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	Dry	< 1.0	0.22 J	< 1	< 1	< 1	< 1	Dry	< 1
SW8260B	1,2-Dichloroethane	µg/L	Dry	< 1.0	< 1.0	< 1.0	0.82 J	< 1.0	Dry	< 1.0	1.4	22	3 *	0.81 J	4.3	Dry	0.94 J
SW8260B	Chloroethane	µg/L	Dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	Dry	< 2	< 2	0.71 J	< 5	< 5	< 5	Dry	< 5 *
SW8260B	Chloroform	µg/L	Dry	1.2	2.0	0.26 J	0.73 J	1.3	Dry	0.43 J	0.21 J	< 1	< 1	< 1	< 1	Dry	< 1
SW8260B	Chloromethane	µg/L	Dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	Dry	< 2	< 2	< 2	< 1	< 1	< 1	Dry	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	Dry	17	400	59	38	6	Dry	12	280	9.9	< 1	< 1	5.3	Dry	3.5
SW8260B	Methylene Chloride	µg/L	Dry	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	Dry	< 2	0.6 J	< 2	< 5	< 5	< 5	Dry	< 5
SW8260B	Tetrachloroethene	µg/L	Dry	0.76 J	2.7	0.6 J	0.74 J	2.3	Dry	1.2	< 1	< 1	< 1	< 1	< 1	Dry	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	Dry	< 1.0	6.7	14	26	0.50 J	Dry	3.9	10	5.1	3.1 *	5.8	33	Dry	4.4
SW8260B	Trichloroethene	µg/L	Dry	86	230	47	47	180	Dry	51	0.83 J	7.5	< 1	< 1	< 1	Dry	3.4
SW8260B	Vinyl Chloride	µg/L	Dry	< 0.8	1.9	10	14	0.33 J	Dry	3	94	5.7	< 1	< 1	14	Dry	4.0
RSK-175	Ethane	µg/L	Dry	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	Dry	1.4 J	6.9	2.5	6.4	11	34	Dry	1.3
RSK-175	Ethene	µg/L	Dry	< 1.5	< 1.5	63	8.0	< 1.5	Dry	1.8	8.4	0.73 J	< 1	2.0	25	Dry	0.76 J
RSK-175	Methane	µg/L	Dry	0.48 J	1800	4600	900	14	Dry	430	5300	9300	20000	14000	5900	Dry	300
SW9060	TOC	mg/L	Dry	0.999 J	12.7	7.3	1.24	2.73	Dry	--	124	9.79	12	17	3.6	Dry	1.8

Method	Parameter Name	Units	CWM-183-MW10 12/10/14	CWM-183-MW10 2/27/15	CWM-183-MW10 6/2/15	CWM-183-MW10 8/25/15	CWM-183-MW10 12/7/15	CWM-183-MW10 2/29/16
SW9060	TOC	mg/L	1.1	1.55	1.06	0.995 J	1.5	2.14

Method	Parameter Name	Units	CWM-183-MW11 12/15/14	CWM-183-MW11 3/2/15	CWM-183-MW11 6/2/15	CWM-183-MW11 8/31/15	CWM-183-MW11 12/3/15	CWM-183-MW11 3/2/16	CWM-183-MW11 9/23/16	CWM-183-MW11 3/16/17	CWM-183-MW11 9/13/17	CWM-183-MW11 3/15/18	CWM-183-MW11 10/2/19	CWM-183-MW11 3/19/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	1.8	6.0	1.5	0.85 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1	0.61 J	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	0.21 J	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	0.84 J	< 5	< 5
SW8260B	Chloroform	µg/L	0.38 J	1.2	0.71 J	0.62 J	< 1.0	0.28 J	< 1.0	< 1.0	< 1	0.56 J	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	0.42 J	2.5	8.4	7.9	4.5	6.1	2.3	1.7	2.2	9	< 1	6.9
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.83 J (UB)	< 2	< 2	< 2	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	0.27 J	0.8 J	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	0.75 J	0.22 J	< 1.0	< 1.0	< 1.0	0.64 J	0.93 J	4.7	1.9	< 1	< 1
SW8260B	Trichloroethene	µg/L	24	71	16	15	3.6	22	11	2.3	0.58 J	1.1	< 1	43
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	5.1	< 0.8	6.8	11	10	22	< 1	2.5
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	15	12	76	59	3.1	< 1.1
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	2.6	19	20	< 1	0.54 J
RSK-175	Methane	µg/L	< 1.2	< 1.2	1.2 J	3.2	830	0.76 J	2400	1500	10000	9000	< 390	200
SW9056	Bromide	mg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	--	--	--	--	--
SW9056	Chloride-Cl	mg/L	2.01	3.09	2.62	2.58	1.73	2.05	--	--	--	--	--	--
SW9056	Nitrate-N	mg/L	0.0708 J	0.0547 J	0.0637 J	0.092 J	< 0.1	0.0576 J	--	--	--	--	--	--
SW9056	Sulfate	mg/L	5.12	4.9	3.94	4.0	0.4 J	8.52	--	--	--	--	--	--
SW9060	TOC	mg/L	< 1.0	< 1.0	0.513 J	0.631 J	0.994 J	< 1.0	1.86	2.89	3.92	0.952 J	3.6	< 1

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW13 12/11/14	CWM-183-MW13 2/24/15	CWM-183-MW13 6/1/15	CWM-183-MW13 8/26/15	CWM-183-MW13 12/1/15	CWM-183-MW13 3/1/16	CWM-183-MW13 9/26/16	CWM-183-MW13 3/15/17	CWM-183-MW13 9/14/17	CWM-183-MW13 3/14/18	CWM-183-MW13 9/19/18	CWM-183-MW13 3/12/19	CWM-183-MW13 9/26/19	CWM-183-MW13 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	40	13	0.76 J	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	2	2.2	< 5	5	< 5	7.7
SW8260B	1,1,2-Trichloroethane	µg/L	1.5	0.44 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 5	< 5	< 5	< 5
SW8260B	1,1-Dichloroethene	µg/L	0.46 J	1.2	1.5	< 1.0	< 1.0	< 1.0	< 1.0	8.2	27	8.4	9 (JS)	8.4	1.9 J	15
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 5	< 5	< 5	< 5
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 25	< 25	< 25	< 25 *
SW8260B	Chloroform	µg/L	0.91 J	1.3	0.83 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	0.28 J	< 5	< 5	< 5	< 5
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Cis-1,2-Dichloroethene	µg/L	9.2	310	490	0.88 J	0.62 J	15	1.3	110	570	200	370 (JS)	290 F1 (JM)	92 B	180
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 25	< 25	< 25	< 25
SW8260B	Tetrachloroethene	µg/L	4.7	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.9	2.3	< 5	4.4 J	7.2 B (UB)	12
SW8260B	Trans-1,2-Dichloroethene	µg/L	1.8	2.4	3.9	0.82 J	1.5	1.9	2.1	9	24	8.6	17 (JS)	12	6.2	15
SW8260B	Trichloroethene	µg/L	460	98	12	2.2	0.42 J	14	0.96 J	110	1700	390	310 F1 (JM)	860 F1 (JM)	38	850
SW8260B	Vinyl Chloride	µg/L	0.29 J	2.4	50	80	3.8	6.2	4.1	38	32	31	76 (JS)	36	56	30
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	0.66 J	60	9.7	28	17	37	10	11	6.0	14	5.8
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	110	31	12	100	19	13	7.7	37	12	32	7.4
RSK-175	Methane	µg/L	5.6	60	110	3900	7100	550	1200	1000	1200	1000	2200	850	1700	730
SW9056	Bromide	mg/L	< 0.5	0.445 J	< 0.5	0.31 J	0.413 J	< 0.5	--	--	--	--	--	--	--	--
SW9056	Chloride-Cl	mg/L	9.24	9.27	20.1	11.3	9.62	7.09	--	--	--	--	--	--	--	--
SW9056	Nitrate-N	mg/L	0.0525 J	< 0.1	< 0.1	< 0.1	0.0677 J	< 0.1	--	--	--	--	--	--	--	--
SW9056	Sulfate	mg/L	5.16	1.21	3.77	< 0.5	0.594	2.82	--	--	--	--	--	--	--	--
SW9060	TOC	mg/L	0.97 J	3.12	1.76	8.03	6.24	1.43	2.71	3.17	2.62	1.34	1.6	0.87 J	0.89 J	1.2

Method	Parameter Name	Units	CWM-183-MW15 12/11/14	CWM-183-MW15 3/2/15	CWM-183-MW15 5/29/15	CWM-183-MW15 8/27/15	CWM-183-MW15 12/9/15	CWM-183-MW15 3/1/16	CWM-183-MW15 9/27/16	CWM-183-MW15 3/20/17	CWM-183-MW15 9/13/17	CWM-183-MW15 3/13/18	CWM-183-MW15 6/12/18	CWM-183-MW15 9/18/18	CWM-183-MW15 3/13/19	CWM-183-MW15 9/23/19	CWM-183-MW15 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	2.8	0.33 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1 *	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	0.33 J	0.44 J	0.34 J	< 1.0	< 1.0	< 1.0	0.32 J	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.36 J	< 2	< 2	< 5	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	1.3	0.54 J	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2	< 1	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	1.2	0.34 J	270	23	26	9.9	2.9	1.6	20	1.2	0.8 J	1.8	0.81 J	1.7	0.71 J
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	0.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	1.6	1.0	0.69 J	< 1.0	2.3	0.93 J	1.8	0.56 J	1.4 *	2.6	0.37 J	4.3	0.47 J
SW8260B	Trichloroethene	µg/L	52	16	15	2.2	6.9	4.6	4.4	2.8	42	2.1	2.0	3.0	2.7	1.8	0.80 J
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	7.1	27	22	1.6	2.7	2.1	11	0.68 J	1.2	2.2	< 1	1.4	< 1
RSK-175	Ethane	µg/L	--	--	--	--	--	< 1.5	48	18	--	--	--	--	--	--	--
RSK-175	Ethene	µg/L	--	--	--	--	--	1.1 J	3.3	< 1.5	--	--	--	--	--	--	--
RSK-175	Methane	µg/L	--	--	--	--	--	75	2300	1300	--	--	--	--	--	--	--
SM4500	Ammonia	mg/L	--	--	--	--	--	--	--	--	0.0667 J	0.067 J	< 0.25	< 0.25	< 0.25	< 0.25	--
SW9056	Nitrate-N	mg/L	--	--	--	--	--	--	< 0.1	< 0.1	< 0.1	0.0501 J	< 0.05	< 0.05	< 0.05	< 0.05	--
SW9056	Sulfate	mg/L	--	--	--	--	--	--	1.57	2.81	4.95	3.32	2.5	3.5	2.5	2.2	--
SW9060	TOC	mg/L	< 1.0	< 1.0	0.629 J	0.648 J	0.732 J	0.755 J	--	--	--	--	--	--	--	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW16 12/11/14	CWM-183-MW16 3/2/15	CWM-183-MW16 5/29/15	CWM-183-MW16 8/27/15	CWM-183-MW16 12/7/15	CWM-183-MW16 3/1/16	CWM-183-MW16 9/27/16	CWM-183-MW16 3/16/17	CWM-183-MW16 9/13/17	CWM-183-MW16 3/13/18	CWM-183-MW16 9/18/18	CWM-183-MW16 3/13/19	CWM-183-MW16 9/24/19	CWM-183-MW16 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	0.51 J	0.32 J	0.2 J	0.48 J	0.29 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.49 J	0.38 J	0.29 J	0.41 J	0.24 J	0.23 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	0.43 J	1 U^ (UB)	0.32 J	0.25 J	0.27 J	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	0.29 J	0.3 J	0.32 J	< 1	0.29 J	< 1	< 1	0.53 J	0.52 J
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	1.1 J	0.62 J	< 5	< 5	3.0 J	3.0 J *
SW8260B	Chloroform	µg/L	3.3	2.8	2.4	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	4.0	4.6	9.4	130	140	82	38	28	0.97 J	20	8.7	7.8	9.1	7.0
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	0.49 J	0.31 J	< 1.0	0.41 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	0.57 J	0.61 J	0.74 J	0.9 J	1.1	3	2.4	2.2	2.2	6.3	4.2
SW8260B	Trichloroethene	µg/L	140	99	67	66	49	55	33	32	1.8	24	12	10	16	7.1
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	7.4	9.6	16	24	35	2.3	8.7	8.9	6.2	9.4	10
RSK-175	Ethane	µg/L	--	--	--	--	--	3.4	14	--	--	--	--	--	--	--
RSK-175	Ethene	µg/L	--	--	--	--	--	8.9	9.5	--	--	--	--	--	--	--
RSK-175	Methane	µg/L	--	--	--	--	--	940	1000	--	--	--	--	--	--	--
SW9060	TOC	mg/L	< 1.0	< 1.0	< 1.0	0.604 J	0.802 J	< 1.0	--	--	--	--	--	--	--	--

Method	Parameter Name	Units	CWM-183-MW17 12/10/14	CWM-183-MW17 2/27/15	CWM-183-MW17 5/29/15	CWM-183-MW17 9/1/15	CWM-183-MW17 12/7/15	CWM-183-MW17 3/1/16	CWM-183-MW17 9/27/16	CWM-183-MW17 3/16/17	CWM-183-MW17 9/12/17	CWM-183-MW17 3/13/18	CWM-183-MW17 9/18/18	CWM-183-MW17 3/13/19	CWM-183-MW17 9/23/19	CWM-183-MW17 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	1.3	< 1.0	2.2	1.7	< 1.0	< 1.0	0.29 J	< 1.0	<1	<1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.25 J	< 1.0	0.24 J	0.3 J	< 1.0	< 1.0	0.2 J	< 1.0	<1	<1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1	<1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1	<1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	0.5 J	< 1.0	1.1	1.1	0.26 J	0.22 J	< 1.0	< 1.0	<1	<1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	18	20	9.2	22	17	11	16	4.2	2.6	1.9	0.72 J	0.73 J	0.53 J	0.86 J
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	0.21 J	< 1.0	0.53 J	0.6 J	< 1.0	< 1.0	0.23 J	< 1.0	<1	<1	< 1	< 1	< 1	< 1 *
SW8260B	Trans-1,2-Dichloroethene	µg/L	0.36 J	0.27 J	0.36 J	0.49 J	0.31 J	0.26 J	0.44 J	< 1.0	<1	<1	< 1	< 1	< 1	< 1
SW8260B	Trichloroethene	µg/L	57	19	84	84	18	15	48	12	8	6.5	4.3	5.1	3.8	5.0
SW8260B	Vinyl Chloride	µg/L	2.5	0.88	3.6	9.1	7.7	4.8	12	5.2	1.8	0.47 J	< 1	11	2.4	2.9
RSK-175	Ethane	µg/L	--	--	--	--	--	< 1.5	4.1	< 1.5	--	--	--	--	--	--
RSK-175	Ethene	µg/L	--	--	--	--	--	< 1.5	3.8	< 1.5	--	--	--	--	--	--
RSK-175	Methane	µg/L	--	--	--	--	--	22	400	14	--	--	--	--	--	--
SW9060	TOC	mg/L	0.905 J	1.53	0.924 J	0.974 J	1.05	3.03	--	--	--	--	--	--	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW19 12/9/14	CWM-183-MW19 2/27/15	CWM-183-MW19 5/28/15	CWM-183-MW19 8/25/19	CWM-183-MW19 12/3/15	CWM-183-MW19 2/29/16	CWM-183-MW19 9/28/16	CWM-183-MW19 3/16/17	CWM-183-MW19 9/15/17	CWM-183-MW19 3/13/18	CWM-183-MW19 9/17/18	CWM-183-MW19 3/12/19	CWM-183-MW19 9/25/19	CWM-183-MW19 3/17/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Methylene Chloride	µg/L	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trichloroethene	µg/L	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1
RSK-175	Ethane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RSK-175	Ethene	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RSK-175	Methane	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SW9060	TOC	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Method	Parameter Name	Units	CWM-183-MW20 12/11/14	CWM-183-MW20 2/26/15	CWM-183-MW20 6/2/15	CWM-183-MW20 8/25/15	CWM-183-MW20 12/2/15	CWM-183-MW20 3/7/16	CWM-183-MW20 9/27/16	CWM-183-MW20 3/16/17	CWM-183-MW20 9/14/17	CWM-183-MW20 3/14/18	CWM-183-MW20 9/17/18	CWM-183-MW20 3/13/19	CWM-183-MW20 9/25/19	CWM-183-MW20 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	1.8	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.87 J	1.3	0.66 J	0.44 J	< 1.0	0.39 J	< 1.0	< 1.0	< 1	0.21 J	< 1	0.49 J	< 1	0.37 J
SW8260B	1,1-Dichloroethene	µg/L	1.0	2.7	0.51 J	0.94 J	0.71 J	0.69 J	< 1.0	0.44 J	0.52 J	1.3	< 1	4.1	< 1	3.8
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	0.31 J	0.34 J	0.26 J	< 1.0	< 1.0	< 1	0.24 J	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	5.2	< 5	2.7 J *
SW8260B	Chloroform	µg/L	0.77 J	1.4	0.32 J	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1	< 1	< 1	0.56 J	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	14	1300	170	600	240	140	2	69	99	290	36	530	1.4	250 *
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	2.3	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	0.32 J	< 1	1.5	< 1	2.2
SW8260B	Trans-1,2-Dichloroethene	µg/L	0.76 J	3.9	1.2	3.6	4.0	1.9	0.68 J	4.1	3.3	2.7	< 1	4.1	0.90 J B	2.7
SW8260B	Trichloroethene	µg/L	370	12	0.29 J	< 1.0	4.8	1.3	0.59 J	7.8	0.88 J	33	< 1	150	0.90 J	120
SW8260B	Vinyl Chloride	µg/L	1.2	3.1	210	560	320	100	1.6	88	130	84	36	140	1.7	98
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	0.93 J	5.2	130	54	--	--	--	--	--	--
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	17	160	49	5.8	76	--	--	--	--	--	--
RSK-175	Methane	µg/L	0.86 J	6.8	1100	4700	6000	1200	9400	4700	--	--	--	--	--	--
SW9060	TOC	mg/L	< 1.0	7.6	14.9	27.8	19.3	0.578 J	--	--	--	--	--	--	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW21 12/9/14	CWM-183-MW21 2/26/15	CWM-183-MW21 6/3/15	CWM-183-MW21 8/27/15	CWM-183-MW21 12/2/15	CWM-183-MW21 3/4/16	CWM-183-MW21 9/28/16	CWM-183-MW21 3/15/17	CWM-183-MW21 9/15/17	CWM-183-MW21 3/14/18	CWM-183-MW21 9/20/18	CWM-183-MW21 3/18/19	CWM-183-MW21 10/2/19	CWM-183-MW21 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	0.99 J	0.77 J	0.49 J	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1	< 1	0.7 J	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.88 J	0.72 J	0.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	0.47 J	0.69 J	0.55 J	0.25 J	0.24 J	0.22 J	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	0.36 J	< 2	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	0.28 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	22	180	180	55	37	29	0.7 J	8.7	2.6	7.2	1.5	3.4	4.5	4.0
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	1.5	0.59 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	1.6	2.2	2.3	1.7	1.9	2.3	1.2	1.6	1.5	1	1.6	1.0	1.4	0.69 J
SW8260B	Trichloroethene	µg/L	180	46	3.0	3.0	12	3.7	1.4	11	0.99 J	2.8	1.1	2.2	2.9	12
SW8260B	Vinyl Chloride	µg/L	0.35 J	0.34 J	13	28	15	23	1.3	5.9	4.4	10	4.0	3.4	4.4	6.1
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	1.8	< 1.5	12	5.3	--	--	--	--	--	--
RSK-175	Ethene	µg/L	< 1.5	< 1.5	1.0 J	17	21	10	7.4	2.8	--	--	--	--	--	--
RSK-175	Methane	µg/L	24	32	3000	5900	6800	3900	4700	7500	--	--	--	--	--	--
SW9060	TOC	mg/L	0.765 J	6.64	18.4	30.2	9.01	1.79	--	--	--	--	--	--	--	--

Method	Parameter Name	Units	CWM-183-MW22 12/9/14	CWM-183-MW22 2/26/15	CWM-183-MW22 6/3/15	CWM-183-MW22 8/27/15	CWM-183-MW22 12/2/15	CWM-183-MW22 3/4/16	CWM-183-MW22 9/26/16	CWM-183-MW22 3/15/17	CWM-183-MW22 9/15/17	CWM-183-MW22 3/14/18	CWM-183-MW22 9/20/18	CWM-183-MW22 3/18/19	CWM-183-MW22 10/2/19	CWM-183-MW22 3/18/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	0.25 J	0.49 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	0.2 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	0.4 J	0.69 J	0.66 J	0.25 J	0.42 J	0.30 J	0.24 J	0.35 J	0.26 J	< 1	< 1	< 1	0.64 J (B)	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1 *	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	16	130	140	47	51	44	35	40	24	20	14	14	96	11
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	0.67 J	< 1.0	< 1.0	< 1.0	0.23 J	0.20 J	< 1.0	0.27 J	0.5 J	0.3 J	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	1.5	1.5	2.5	2.7	2.4	1.4	1.3	1.9	1.6	0.97 J	1.5	0.63 J	3.1	0.58 J
SW8260B	Trichloroethene	µg/L	130	17	3.9	6.0	29	26	27	26	35	23	32	19	19	9.5
SW8260B	Vinyl Chloride	µg/L	0.26 J	0.39 J	1.1	12	7.4	3.9	2.9	14	6.1	4	4.6	1.4	39	5.9
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	3.9	< 1.5	4.3	2.4	--	--	--	--	--	--
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	23	9.6	2	2.9	1.5 J	--	--	--	--	--	--
RSK-175	Methane	µg/L	28	68	2200	3400	6200	1700	6700	2300	--	--	--	--	--	--
SW9060	TOC	mg/L	0.806 J	4.5	14.4	5.65	2.23	0.984 J	--	--	--	--	--	--	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW23 12/16/14	CWM-183-MW23 3/3/15	CWM-183-MW23 6/4/15	CWM-183-MW23 9/1/15	CWM-183-MW23 12/9/15	CWM-183-MW23 3/8/16	CWM-183-MW23 9/28/16	CWM-183-MW23 3/21/17	CWM-183-MW23 9/18/17	CWM-183-MW23 3/15/18	CWM-183-MW23 6/12/18	CWM-183-MW23 9/20/18	CWM-183-MW23 3/18/19	CWM-183-MW23 9/26/19	CWM-183-MW23 3/19/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	18000	560	79000	40000	3300	62,000	4,200	2700	25000	21,000	44,000	26000	30000	< 500	< 500
SW8260B	1,1,2-Trichloroethane	µg/L	12	0.27 J	55	22	1.3	34	20	1.5	120	120	180 J	< 500	< 500	< 500	< 500
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5 J	3.9	< 250	< 500	< 500	< 500	< 500
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 5	0.33 J	< 250	< 500	< 500	< 500	< 500
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 10	< 2	< 1300	< 2500	< 2500	< 2500	< 2500
SW8260B	Chloroform	µg/L	20	0.4 J	62	32	2.2	43	23	1.8	42	28	< 250	< 500	< 500	< 500	< 500
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 10	< 2	< 250	< 500	< 500	< 500	< 500
SW8260B	Cis-1,2-Dichloroethene	µg/L	48	1.2	190	77	6.8	130	62	20	160	170	3800	5600	5300	10000 B	7600
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	2 U^ (UB)	2 U^ (UB)	< 2.0	< 2.0	0.55 J	< 2	2.8 J	0.83 J	< 1300	< 2500	< 2500	< 2500	< 2500
SW8260B	Tetrachloroethene	µg/L	64	8.5	130	65	19	73	65	8.5	6.2	32	< 250	< 500	< 500	780 B	< 500
SW8260B	Trans-1,2-Dichloroethene	µg/L	1.9	< 1.0	6.8	2.6	0.51 J	2.7	4.1	2.2	17	28	< 250	< 500	< 500	440 J	510
SW8260B	Trichloroethene	µg/L	3100	130	7000	3800	780	5,200	420	420	1900	3200	3100	1500	660	< 500	< 500
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	15	11	< 250	< 500	< 500	680	1900
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	0.9 J	0.76 J	4	2.9	2.9	3.6	3.9 J
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	3.5	2.9	35	30	36	270	610
RSK-175	Methane	µg/L	1.1 J	3.6	0.46 J	0.57 J	41	0.54 J	4	81	4.9	43	7700	4800	8600	6600	11000
SM4500	Ammonia	mg/L	--	--	--	--	--	--	--	--	--	--	< 0.25	--	--	--	--
SW9056	Nitrate-N	mg/L	--	--	--	--	--	--	--	--	--	--	< 0.05	--	--	--	--
SW9056	Sulfate	mg/L	--	--	--	--	--	--	--	--	--	--	0.69 J	--	--	--	--
SW9060	TOC	mg/L	0.805 J	0.808 J	2.5	1.5	1.02	1.65	--	--	329	2.28	94	86	46	47	61

Method	Parameter Name	Units	CWM-183-MW25 12/9/14	CWM-183-MW25 2/26/15	CWM-183-MW25 5/28/15	CWM-183-MW25 8/25/15	CWM-183-MW25 12/2/15	CWM-183-MW25 2/29/16	CWM-183-MW25 9/22/16	CWM-183-MW25 3/15/17	CWM-183-MW25 9/15/17	CWM-183-MW25 3/13/18	CWM-183-MW25 9/17/18	CWM-183-MW25 3/13/18	CWM-183-MW25 9/25/19	CWM-183-MW25 3/17/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1 *
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 2	< 5	< 5
SW8260B	Chloroform	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 2	< 2	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1 *
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.91 J (UB)	< 2	< 2	< 2	< 2	< 2	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trichloroethene	µg/L	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	0.77 J	< 1	< 1	< 1	< 1	< 1
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1
SW9060	TOC	mg/L	3.36	1.87	3.7	2.35	5.77	2.37	--	--	329	2.28	--	--		

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW28 12/10/14	CWM-183-MW28 2/27/15	CWM-183-MW28 6/3/15	CWM-183-MW28 8/25/15	CWM-183-MW28 12/2/15	CWM-183-MW28 3/4/16	CWM-183-MW28 9/22/16	CWM-183-MW28 3/17/17	CWM-183-MW28 9/15/17	CWM-183-MW28 3/14/18	CWM-183-MW28 9/19/18	CWM-183-MW28 3/12/19	CWM-183-MW28 9/24/19	CWM-183-MW28 3/17/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	0.42 J	< 2.0	< 2.0	< 2	< 2	< 2	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.81 J (UB)	< 2	< 2	< 2	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1
SW8260B	Trichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1	< 1	< 1	< 1	< 1
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 1	< 1	< 1	< 1
RSK-175	Ethane	µg/L	0.69 J	< 1.5	< 1.5	< 1.5	0.81 J	< 1.5	< 1.5	< 1.5	--	--	--	--	--	--
RSK-175	Ethene	µg/L	3.3	3.1	2.1	2.2	2.5	2.2	2.5	2.5	--	--	--	--	--	--
RSK-175	Methane	µg/L	580	470	230	400	370	340	230	390	--	--	--	--	--	--
SW9060	TOC	mg/L	2.41	2.49	2.49	2.32	2.24	1.76	--	--	--	--	--	--	--	--

Method	Parameter Name	Units	CWM-183-MW29 12/10/14	CWM-183-MW29 2/27/15	CWM-183-MW29 6/2/15	CWM-183-MW29 8/25/15	CWM-183-MW29 12/7/15	CWM-183-MW29 2/29/16
SW9060	TOC	mg/L	1.01	1.04	1.87	1.38	1.3	1.49

Method	Parameter Name	Units	CWM-183-MW31 9/20/19	CWM-183-MW31 3/12/19	CWM-183-MW31 9/24/19	CWM-183-MW31 3/17/20
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	< 1	< 1	< 1	< 1
SW8260B	1,1,2-Trichloroethane	µg/L	< 1	< 1	< 1	< 1
SW8260B	1,1-Dichloroethene	µg/L	< 1	< 1	< 1	< 1
SW8260B	1,2-Dichloroethane	µg/L	< 1	< 1	< 1	< 1
SW8260B	Chloroethane	µg/L	< 5	< 5	< 5	< 5
SW8260B	Chloroform	µg/L	< 1	< 1	< 1	< 1
SW8260B	Chloromethane	µg/L	< 1	< 1	< 1	< 1
SW8260B	Cis-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1
SW8260B	Methylene Chloride	µg/L	< 5	< 5	< 5	< 5
SW8260B	Tetrachloroethene	µg/L	< 1	< 1	< 1	< 1
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1	< 1	< 1	< 1
SW8260B	Trichloroethene	µg/L	< 1	< 1	< 1	< 1
SW8260B	Vinyl Chloride	µg/L	< 1	< 1	< 1	< 1
RSK-175	Ethane	µg/L	--	--	--	--
RSK-175	Ethene	µg/L	--	--	--	--
RSK-175	Methane	µg/L	--	--	--	--
SW9060	TOC	mg/L	--	--	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW32 12/15/14	CWM-183-MW32 3/2/15	CWM-183-MW32 6/1/15	CWM-183-MW32 8/31/15	CWM-183-MW32 12/3/15	CWM-183-MW32 3/7/16
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Chloroform	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Cis-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	0.25 J	1.3	5.2	8.8
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	1.4
RSK-175	Ethane	µg/L	3.9	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
RSK-175	Methane	µg/L	180	48	850	5500	10000	2300
SW9056	Bromide	mg/L	< 0.5	80.6	1.41	0.69	0.69	0.274 J
SW9056	Chloride-Cl	mg/L	3.59	2.72	2.96	3.65	3.52	4.49
SW9056	Nitrate-N	mg/L	< 0.1	0.068 J	< 0.1	< 0.1	< 0.1	< 0.1
SW9056	Sulfate	mg/L	8.61	0.862	0.403 J	0.608	0.478 J	0.312 J
SW9060	TOC	mg/L	< 1.0	255	16.1	47.6	61.6	1.19

Method	Parameter Name	Units	CWM-183-MW33 12/12/14	CWM-183-MW33 2/24/15	CWM-183-MW33 6/1/15	CWM-183-MW33 8/26/15	CWM-183-MW33 12/9/15	CWM-183-MW33 3/2/16
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	0.67 J	1.1	0.68 J	< 1.0	< 1.0	< 1.0
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Chloroform	µg/L	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Cis-1,2-Dichloroethene	µg/L	1.5	4.3	4.4	29	7.5	2.1
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trans-1,2-Dichloroethene	µg/L	0.44 J	0.63 J	0.78 J	6.5	1.8	0.57 J
SW8260B	Trichloroethene	µg/L	4.1	3.5	4.2	6.6	2.0	0.80 J
SW8260B	Vinyl Chloride	µg/L	0.96	1.0	1.2	4.1	2.5	1.1
RSK-175	Ethane	µg/L	3.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	0.63 J	< 1.5	< 1.5
RSK-175	Methane	µg/L	290	500	95	580	780	580
SW9056	Bromide	mg/L	< 0.5	0.47 J	< 0.5	0.473 J	< 0.5	< 0.5
SW9056	Chloride-Cl	mg/L	3.93	4.41	3.93	4.79	3.77	3.63
SW9056	Nitrate-N	mg/L	0.0611 J	< 0.1	0.0513 J	0.0553 J	< 0.1	0.13
SW9056	Sulfate	mg/L	17.4	13.2	16.6	16.4	9.43	8.64
SW9060	TOC	mg/L	2.39	5.07	2.67	2.8	2.22	2.03

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	CWM-183-MW34 12/15/14	CWM-183-MW34 3/2/15	CWM-183-MW34 6/1/15	CWM-183-MW34 8/31/15	CWM-183-MW34 12/3/15	CWM-183-MW34 3/7/16
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	3.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Chloroform	µg/L	0.49 J	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Cis-1,2-Dichloroethene	µg/L	0.51 J	0.25 J	2.3	1.3	2.2	1.8
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Tetrachloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trans-1,2-Dichloroethene	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	µg/L	26	7.6	2.7	0.54 J	0.22 J	< 1.0
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
RSK-175	Ethane	µg/L	7.9	7.5	2.6	2.2	5.3	4.1
RSK-175	Ethene	µg/L	< 1.5	3.2	2.2	1.9	< 1.5	< 1.5
RSK-175	Methane	µg/L	710	560	560	6900	11000	13000
SW9056	Bromide	mg/L	< 1.0	1.75	5.08	3.97	3.92	3.46
SW9056	Chloride-Cl	mg/L	4.13	4.32	4.06	4.17	4.17	4.97
SW9056	Nitrate-N	mg/L	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SW9056	Sulfate	mg/L	13.8	9.91	6.15	2.8	0.46 J	0.287 J
SW9060	TOC	mg/L	1.01	5.12 (JQ)	12.4	13.5	2.07	0.864 J

Method	Parameter Name	Units	CWM-183-MW35 12/12/14	CWM-183-MW35 2/24/15	CWM-183-MW35 6/1/15	CWM-183-MW35 8/26/15	CWM-183-MW35 12/1/15	CWM-183-MW35 3/2/16	CWM-183-MW35 9/26/16	CWM-183-MW35 3/15/17
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	1.5	5.8	7.1	1.3	3.4	5.6	< 1.0	5.4
SW8260B	1,1,2-Trichloroethane	µg/L	< 1.0	0.38 J	0.38 J	< 1.0	< 1.0	0.25 J	< 1.0	0.44 J
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	0.23 J	0.37 J	0.63 J	1 U^ (UB)	0.24 J	0.72 J	0.59 J
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	0.26 J
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2
SW8260B	Chloroform	µg/L	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2
SW8260B	Cis-1,2-Dichloroethene	µg/L	5.7	13	21	61 (JM)	32	13	89	43
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2
SW8260B	Tetrachloroethene	µg/L	< 1.0	1.2	1.0	< 1.0	0.27 J	0.66 J	< 1.0	0.52 J
SW8260B	Trans-1,2-Dichloroethene	µg/L	1.1	2.4	3.8	5.7	3.8	2.5	6.2	5.4
SW8260B	Trichloroethene	µg/L	10	55	65	26	31	37 (JM)	6.7	72
SW8260B	Vinyl Chloride	µg/L	1.8	2.9	4.2	5.6	12	6.0	13.0	9
RSK-175	Ethane	µg/L	17	1.7	6.0	2.0	7.2	1.2 J	1.3 J	1.3 J
RSK-175	Ethene	µg/L	0.97 J	< 1.5	0.9 J	1.2 J	1.3 J	< 1.5	0.91 J	< 1.5
RSK-175	Methane	µg/L	380	400	320	420	520	340	1600	170
SW9056	Bromide	mg/L	< 0.5	0.356 J	0.281 J	1.48	0.359 J	< 0.5	--	--
SW9056	Chloride-Cl	mg/L	7.09	4.18	5.9	6.01	5.38	4.76	--	--
SW9056	Nitrate-N	mg/L	0.063 J	< 0.1	0.0501 J	0.0527 J	0.103	< 0.1	--	--
SW9056	Sulfate	mg/L	33.6	11.9	12.8	17.5	14.6	12.1	--	--
SW9060	TOC	mg/L	2.78	5.43	2.74	2.51	2.97	2.71	--	--

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	T6-AS-5 12/15/14	T6-AS-5 3/2/15	T6-AS-5 6/3/15	T6-AS-5 8/31/15	T6-AS-5 12/8/15	T6-AS-5 3/7/16
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	230	6.0	0.49 J	< 1.0	< 1.0	< 1.0
SW8260B	1,1,2-Trichloroethane	µg/L	6.2	2.2	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1-Dichloroethene	µg/L	1.3	2.2	0.27 J	< 1.0	< 1.0	< 1.0
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	0.39 J	< 1.0	0.21 J	0.46 J	0.23 J
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Chloroform	µg/L	11	5.5	0.3 J	< 1.0	< 1.0	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	0.61 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Cis-1,2-Dichloroethene	µg/L	53	680	86	2.1	0.93 J	2.6
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Tetrachloroethene	µg/L	17	1.0	0.27 J	< 1.0	< 1.0	< 1.0
SW8260B	Trans-1,2-Dichloroethene	µg/L	23	14	2.0	1.5	1.3	0.41 J
SW8260B	Trichloroethene	µg/L	1800	22	4.8	1.2	1.0	5.2
SW8260B	Vinyl Chloride	µg/L	0.42 J	6.9 (JQ)	64	84	2.9	3.5
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	5.9	22	4.9
RSK-175	Methane	µg/L	8.0	4.7	2600	8100	11000	2900
SW9056	Bromide	mg/L	0.418 J	1.82	1.02	1.71	1.0	< 0.5
SW9056	Chloride-Cl	mg/L	27	10.1	3.0	3.38	3.92	2.17
SW9056	Nitrate-N	mg/L	0.102	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
SW9056	Sulfate	mg/L	9.89	1.45	1.0	0.592	1.06	3.83
SW9060	TOC	mg/L	0.538 J	27.9	42	86.1	36	< 1.0

Method	Parameter Name	Units	T6-AS-6 12/12/14	T6-AS-6 3/2/15	T6-AS-6 6/3/15	T6-AS-6 8/31/15	T6-AS-6 12/8/15	T6-AS-6 3/7/16
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	1600	25	7.8	3.9	2.1	0.97 J
SW8260B	1,1,2-Trichloroethane	µg/L	6.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1-Dichloroethene	µg/L	0.86 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Chloroform	µg/L	16	0.7 J	0.33 J	0.41 J	0.37 J	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	Cis-1,2-Dichloroethene	µg/L	36	4.0	1.6	2.3	15	19
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2.0
SW8260B	Tetrachloroethene	µg/L	31	11	6.2	4.3	3.0	3.6
SW8260B	Trans-1,2-Dichloroethene	µg/L	3.8	0.52 J	0.35 J	0.43 J	0.6 J	0.55 J
SW8260B	Trichloroethene	µg/L	6400	820	230	210	200	100
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
RSK-175	Methane	µg/L	7.1	0.43 J	0.36 J	2.6	0.47 J	2.4
SW9056	Bromide	mg/L	0.531	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SW9056	Chloride-Cl	mg/L	17.2	2.29	1.78	1.89	2.06	2.08
SW9056	Nitrate-N	mg/L	0.397	0.0579 J	< 0.1	0.0518 J	< 0.1	< 0.1
SW9056	Sulfate	mg/L	7.63	6.38	6.71	7.42	6.43	5.64
SW9060	TOC	mg/L	< 1.0	< 1.0	< 1.0	0.523 J	< 1.0	1.27

Table E2: Groundwater Analytical Results,
Training Area T-6 and Cane Creek Training Area, McClellan, Anniston, Alabama

Method	Parameter Name	Units	T6-AS-7 12/15/14	T6-AS-7 3/3/15	T6-AS-7 6/4/15	T6-AS-7 8/31/15	T6-AS-7 12/8/15	T6-AS-7 3/8/16	T6-AS-7 9/28/16	T6-AS-7 3/15/17
SW8260B	1,1,2,2-Tetrachloroethane	µg/L	2.5	2.0	1.7	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1,2-Trichloroethane	µg/L	1.1	0.8 J	0.81 J	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	1,1-Dichloroethene	µg/L	< 1.0	0.4 J	0.47 J	< 1.0	< 1.0	0.70 J	< 1.0	< 1.0
SW8260B	1,2-Dichloroethane	µg/L	< 1.0	< 1.0	< 1.0	0.21 J	0.58 J	1.0	0.32 J	0.23 J
SW8260B	Chloroethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2
SW8260B	Chloroform	µg/L	7.8	5.6	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Chloromethane	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2
SW8260B	Cis-1,2-Dichloroethene	µg/L	2.0	460	340	0.54 J	38	680	1.2	0.74 J
SW8260B	Methylene Chloride	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	2 U^ (UB)	< 2.0	< 2.0	< 2
SW8260B	Tetrachloroethene	µg/L	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trans-1,2-Dichloroethene	µg/L	0.24 J	0.9 J	1.4	1.0	2.6	6.2	3	2.9
SW8260B	Trichloroethene	µg/L	570	32	3.0	0.6 J	1.5	0.80 J	0.85 J	0.81 J
SW8260B	Vinyl Chloride	µg/L	< 0.8	< 0.8	140	260	110	270	8.5	1.9
RSK-175	Ethane	µg/L	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	2.7	48	86
RSK-175	Ethene	µg/L	< 1.5	< 1.5	< 1.5	2.8	130	120	120	32
RSK-175	Methane	µg/L	0.49 J	0.48 J	550	840	8800	6200	2500	4300
SW9056	Bromide	mg/L	1.01	< 0.5	< 0.5	< 0.5	0.511	0.253 J	--	--
SW9056	Chloride-Cl	mg/L	32.7	29.9	29.4	29.4	25.5	26	--	--
SW9056	Nitrate-N	mg/L	0.472	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	--	--
SW9056	Sulfate	mg/L	7.87	0.646	0.777	0.702	0.34 J	< 0.5	--	--
SW9060	TOC	mg/L	0.607 J	10.2	14.4	16.1	14.3	11	--	--

Notes:
< = Indicates the analyte was not detected at the reported quantitation limit shown.
µg/L = micrograms per liter
mg/L = milligrams per liter
Dry = well was dry so no sample was collected
-- = not analyzed

Lab Flags:
B = Compound was found in the blank and sample.
J = Estimated detection. The analyte is positively identified and the concentration is less than the reporting limit (RL) but greater than the method detection limit (MDL).
U^ = Analyte is not detected above the RL; lab flag updated by MES data reviewer.
*LCS or LCSD or RPD or internal standard or retention time outside acceptance criteria.
Validation Flags:
(UB) = Result was qualified as not detected based on blank contamination.
(JM) = Estimated detection; matrix spike and matrix spike duplicate recoveries were outside laboratory historical control limits.
(JQ) = Reported value is estimated; relative percent difference (RPD) of the analyte concentrations for parent sample and field duplicate exceeded criteria.