Univar Solutions USA Inc.
6000 Parkwood Place
Dublin, OH 43016

T 614 477-6376
www.univarsolutions.com

March 31, 2020

Tom Mackie
Washington Department of Ecology
Hazardous Waste Toxics Reduction Program
1250 W Alder St.
Union Gap, WA 98903-0009

Re: 2019 Annual Groundwater Monitoring Report
Univar Solutions USA Inc.
8201 South 212th Street, Kent Washington 98032
Agreed Order No. DE5988

Dear Mr. Mackie,

Univar Solutions USA, Inc. (Univar Solutions) is submitting the enclosed 2019 Annual Groundwater Monitoring Report for the site referenced above. This report is submitted pursuant to the existing Agreed Order No. DE5988 between Univar Solutions (formerly Univar USA Inc.). The report provides a list of key communications in 2019, evaluates groundwater conditions following enhanced bioremediation injections in 2011, and summarizes the results of off-site groundwater sampling results at monitoring well MW-29D.

The next semi-annual groundwater sampling event is tentatively scheduled for May 2020. Any changes to the schedule as a result of travel restrictions due to the current coronavirus pandemic will be communicated to you.

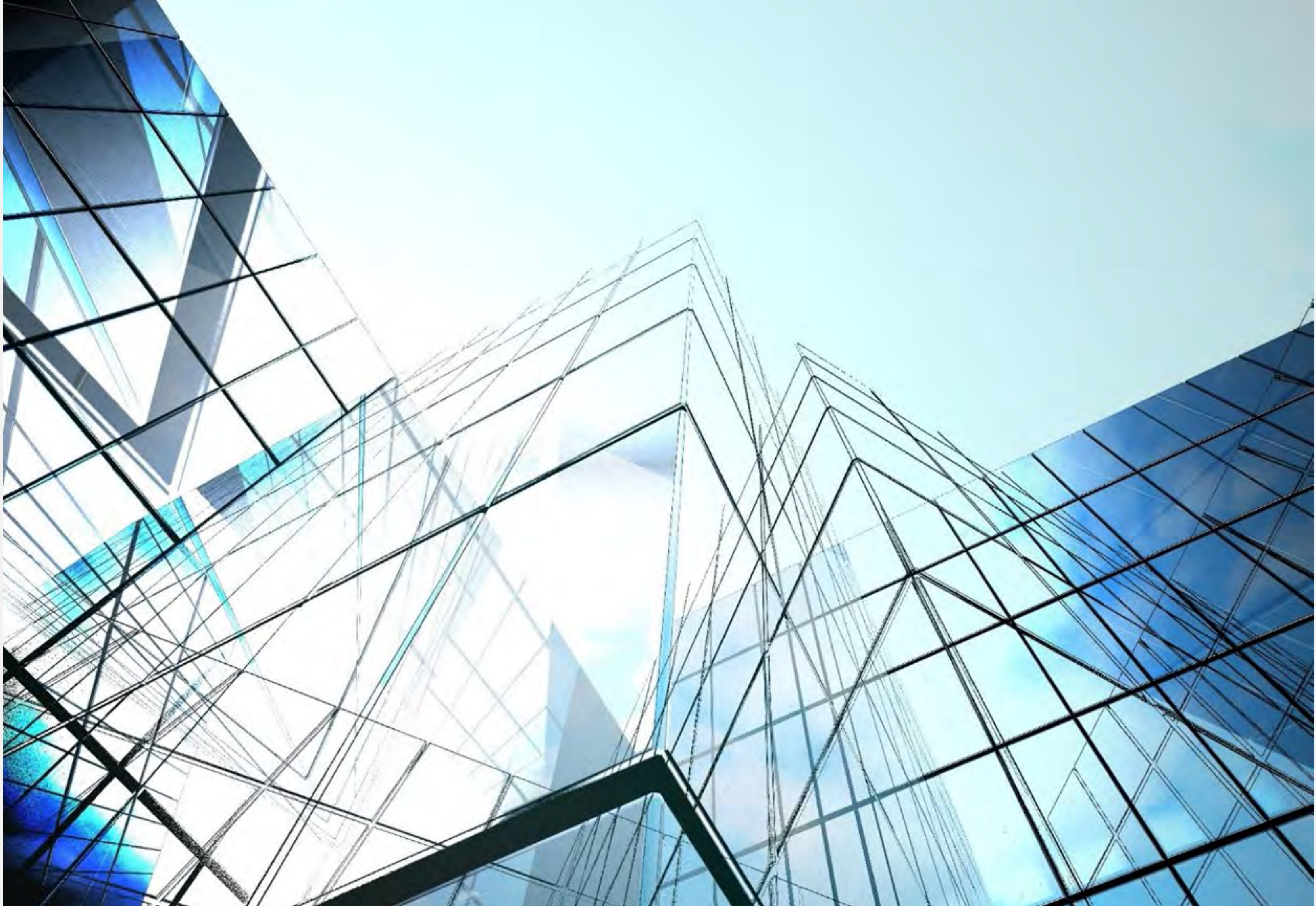
If you should have any questions, please contact our environmental consultant, Dylan Stankus of ERM at dylan.stankus@erm.com. Alternatively you can contact me at michelle.stayrook@univarsolutions.com or 614-477-6376.

Sincerely,

Michelle Stayrook

Michelle Stayrook
Univar Solutions

CC: Dylan Stankus, ERM
Attachment



2019 Annual Groundwater Monitoring Report

Univar Solutions USA, Inc.

8201 South 212th Street, Kent, Washington
Agreed Order No. DE 5988

31 March 2020

Project No.: 0533246

The business of sustainability

ERM

Signature Page

31 March 2020

2019 Annual Groundwater Monitoring Report

8201 South 212th Street, Kent, Washington
Agreed Order No. DE 5988

Dylan Stankus, PE
Project Manager

David P. Edwards, LG
Partner-in-Charge

ERM-West, Inc.
1218 3rd Avenue, Suite 1412
Seattle, WA 98101

T: +1 425 462 8591
F: +1 425 455 3573

© Copyright 2020 by ERM Worldwide Group Ltd and / or its affiliates ("ERM").
All rights reserved. No part of this work may be reproduced or transmitted in any form, or by any means, without the prior written permission of ERM

CONTENTS

List of Tables

List of Figures

Acronyms and Abbreviations

AO	Agreed Order
AST	aboveground storage tank
cDCE	cis-1,2-dichloroethene
CAP	Cleanup Action Plan
Cascade	Cascade Drilling, L.P.
CMP	Compliance Monitoring Plan
CUL	cleanup level
Ecology	Washington State Department of Ecology
EDR	Engineering Design Report
ERM	ERM-West, Inc.
FFS	Focused Feasibility Study
ft bgs	feet below ground surface
ft/ft	foot/foot
IHS	indicator hazardous substance
MW	monitoring well
PCE	tetrachloroethene
PES	PES Environmental, Inc.
RI	Remedial Investigation
site	Univar Solutions facility located at 8201 South 212th Street in Kent, Washington
SOW	scope of work
TCE	trichloroethene
Univar Solutions	Univar Solutions USA, Inc.
UST	underground storage tank
VC	vinyl chloride
VOC	volatile organic compound
WAC	Washington Administrative Code

1. INTRODUCTION

ERM-West, Inc. (ERM) has prepared this 2019 Annual Groundwater Monitoring Report on behalf of Univar Solutions USA, Inc. (Univar Solutions) to present monitoring results and summarize activities performed at the Univar Solutions facility located at 8201 South 212th Street in Kent, Washington (the "site"). The location of the site is shown on Figure 1. This report is being submitted pursuant to the requirements of Agreed Order No. DE 5988 (AO, [Ecology, 2008]) between Univar Solutions and the Washington State Department of Ecology (Ecology). The specific requirements for submittal of this report are in the AO Exhibit B scope of work (SOW) Task 3. This report covers the period beginning 1 January 2019 and ending 31 December 2019 (the "reporting period").

The work performed during the reporting period included:

- Semi-Annual Groundwater Monitoring (i.e., performance monitoring);
- Transition from Quarterly to Semi-Annual Clean-up Progress Reporting;
- Submittal of 2018 Annual Report;
- Installation and development of monitoring well MW-29D; and
- Deep Groundwater Benzene Delineation.

Key communications in 2019 and early 2020 are listed below.

- Clean-up Progress Report, 4th Quarter 2019, 30 January 2019
- Conditional Approval Clean-up Progress Report, 4th Quarter 2018, 14 February 2019
- Groundwater Monitoring Well Installation Plan, 22 February 2019
- Comments Groundwater Monitoring Well Installation Plan, 1 March 2019
- Groundwater Monitoring Well Installation Plan Revision 1, 12 March 2019
- Approval Groundwater Monitoring Well Installation Plan Revision 1, 13 March 2019
- 2018 Annual Groundwater Monitoring Report, 30 March 2019
- Clean-up Progress Report, 1st Quarter 2019, 26 April 2019
- Comments 2018 Annual Groundwater Monitoring Report, 3 May 2019
- Clean-up Progress Report, 2nd Quarter 2019, 30 July 2019
- Entity Name Change, 20 August 2019
- Approval 2018 Annual Groundwater Monitoring Report, 10 October 2019
- Deep Groundwater Benzene Delineation Report, 12 November 2019
- RCRA Corrective Action Permit Renewal Applications Part A and B, Revised 16 December 2019
- Clean-up Progress Report, 3rd and 4th Quarter 2019, 29 January 2020

2. SITE DESCRIPTION AND HISTORY

Univar Solutions is a wholesale distributor of chemical products; it stores, packages, and distributes chemical products to meet customer needs. Univar Solutions (formerly Van Waters and Rogers and Univar USA Inc.) has operated at the site since 1974. The current site plan is shown on Figure 2.

Van Waters & Rogers historically operated one 1,500-gallon and one 6,000-gallon aboveground storage tank (AST) containing dangerous waste as well as 37 underground storage tanks (USTs) containing raw products at the site. The locations of the former ASTs and USTs are shown on Figure 2. According to PES Environmental, Inc. (PES) (2009a), the dangerous waste ASTs were taken out of service in 1982 (1,500-gallon tank) and in 1985 (6,000-gallon tank). There were no known releases from the former dangerous waste ASTs during their operating history. The 37 raw product USTs were removed in 1985 and 1986 (PES 2005). The former USTs are suspected to have impacted soil and groundwater at the site. The area previously containing the ASTs and USTs is currently covered by a concrete pad constructed in approximately 1985.

Site soil and groundwater investigations completed from 1994 to 2008 indicated that volatile organic compounds (VOCs) were present in the subsurface at concentrations above the applicable Model Toxics Control Act cleanup levels (CULs). Starting in 1998, Univar Solutions conducted environmental investigations under Ecology’s Voluntary Cleanup Program; in 2008, Univar Solutions entered into negotiations with Ecology for an Agreed Order (AO) that would cover future remedial action at the site. The AO was finalized and became effective on 20 November 2008.

A combined revised Remedial Investigation (RI) addendum, Focused Feasibility Study (FFS) addendum, and draft Cleanup Action Plan (CAP) were developed in 2009 (PES 2009). The document summarized the soil and groundwater data that was collected through 2008, developed CULs for soil and groundwater indicator hazardous substances (IHSs) at the site, and recommended cleanup actions. The combined RI, FFS, and draft CAP fulfilled the requirements of the AO Exhibit B SOW Task 1.

The RI addendum identified IHSs immediately east of the warehouse building (Figure 2) in soil and groundwater zones described as follows:

- Vadose zone soil and saturated zone soil below a depth of approximately 25 feet below ground surface (ft bgs);
- Shallow groundwater in the uppermost water-bearing unit (i.e., shallow zone groundwater) is approximately 4 to 30 ft bgs; and
- Deep groundwater in the uppermost water-bearing unit (i.e., deep zone groundwater) is approximately 30 to 45 ft bgs.

Following Ecology approval of the draft CAP, a Final Engineering Design Report (EDR) was developed in 2010 (PES 2010). The EDR presented the procedures, schedule, and goals for implementation of the cleanup action. A Compliance Monitoring Plan (CMP) was included as an Appendix to the EDR to describe monitoring requirements to demonstrate the protection of workers and effectiveness of the cleanup action in accordance with Washington Administrative Code (WAC) 173-340-410 (i.e., protection monitoring, performance monitoring, and conformational monitoring). The CMP fulfilled requirements of the AO Exhibit B SOW Task 2. Univar Solutions began implementation of the cleanup action in 2011 and, in general, it included the following:

- Enhanced bioremediation injections in 2011 at targeted groundwater source areas in the shallow zone (i.e., MW-5 source area) and deep zone (i.e., MW-13/MW-21 source area);
- Monitored natural attenuation to address residual contamination in non-source areas in soil and groundwater; and

- Institutional controls to protect human health and the environment.

Implementation of the final cleanup action was documented in the Construction Report dated 12 May 2012 (PES 2012).

On 23 August 2018, a RCRA Corrective Action Permit Renewal Application Part A and B was submitted. A revised application was submitted on 16 December 2019 updating the name from Univar USA Inc. to Univar Solutions USA Inc. Approval is pending. In the interim, corrective action activities are complete in accordance with the draft CAP and subsequent monitoring and reporting schedules approved by Ecology.

3. SITE CLOSURE REQUIREMENTS

The IHSs and associated CULs for the site are presented in Table 1. The CULs are based on Ecology's current Cleanup Levels and Risk Calculation toxicity values (Ecology 2019). The CULs for some of the IHSs have been revised by Ecology since they were first documented in the RI addendum, FFS addendum, and draft CAP (PES 2009a) as detailed in the 2018 Annual Groundwater Monitoring Report Rev 1 (ERM 2019a).

The standard point of compliance for direct contact with soil throughout the site is from the ground surface to a depth of 15 feet. For groundwater, the standard point of compliance is the affected portion of the aquifer throughout the site; however, in a case when attaining CULs throughout the site is impractical, a conditional point of compliance for groundwater can be established at the downgradient property line (WAC 173-340-720(8)(c)).

The goals of the final cleanup action as summarized in the CAP are as follows:

- Maintain the existing asphalt and concrete cover to minimize the potential for IHSs to leach from soil to groundwater.
- Implement institutional controls for incidental ingestion of and dermal contact with soil exceeding the applicable CULs, and for inhalation of particulates and vapors from soil exceeding the applicable CULs by subsurface construction workers on site.
- Control migration of groundwater containing IHSs at concentrations exceeding the applicable CULs.
- Control incidental ingestion and dermal contact with groundwater exceeding the applicable CULs, and control inhalation of vapors from groundwater exceeding the applicable CULs by subsurface construction workers on site.

Compliance monitoring is being conducted to demonstrate protection of workers and effectiveness of the final cleanup action for soil and groundwater in accordance with the CMP (PES 2010). Compliance monitoring includes the following:

- Protection monitoring in accordance with WAC 173-340-410(1)(a), which was conducted to confirm the protection of human health and the environment during implementation of the final cleanup action, and is documented in the Construction Completion Report (PES 2012);
- Performance monitoring in accordance with WAC 173-340-410(1)(b), which consists of groundwater quality and injection performance monitoring and is currently being performed to assess the progress of the cleanup action toward attaining CULs; and
- Confirmational groundwater monitoring in accordance with WAC 173-340-410(1)(c), which will be performed following attainment of CULs to demonstrate the long-term effectiveness of the cleanup action.

Upon consistent attainment of CULs at the point of compliance for IHSs during confirmational groundwater monitoring, Univar Solutions understands that Ecology will provide written notification indicating Univar Solutions has completed the corrective actions required by AO No. DE 5988 and that the provisions of the AO will be deemed satisfied.

4. WORK PERFORMED IN 2019

The work performed during the reporting period included delineation of the benzene plume in deep groundwater and performance monitoring (Table 2) as described in the subsections below.

4.1 Delineation of Benzene in Deep Groundwater

On 29 November 2018, Ecology informed Univar Solutions and ERM that the downgradient extent of benzene in deep groundwater must be delineated to fulfill the requirements of the AO, and requested a work plan describing the investigation to delineate the downgradient extent of benzene in deep groundwater. On 12 March 2019, ERM submitted the Well Installation Plan to Ecology, which described the proposed location of a new downgradient deep monitoring well (MW-29D), the rationale for a proposed monitoring well location, and the procedures to be used to install, develop, survey and sample the new monitoring well. The well location is shown on Figure 2. The Well Installation Plan was approved by Ecology on 12 March 2019.

On 7 August 2019 Cascade Drilling, L.P. (Cascade) constructed MW-29D in accordance with WAC 173-160 and the procedures described in the Well Installation Plan. Cascade used Sonic drilling methods to advance and continuously sample the soil boring, and an ERM field geologist logged the boring and documented the well construction. Field screening for volatile organic compounds (VOCs) using a photoionization detector indicated no VOC impact. Well construction details are summarized in Table 2, and the drillers log and ERM's well construction log for MW-29D are provided as Appendix A. The well construction log was used to prepare a cross section with an updated interpretation of site hydrogeology (Figure 3).

On 26 August 2019, Cascade developed the monitoring well by surging and purging water from the well until it produced low turbidity water. On 28 August 2019, True North Land Surveying, Inc., a Washington licensed land surveyor, surveyed the location and elevation of MW-29D and other deep groundwater monitoring wells for reference. The development log and survey report for MW-29D are provided as Appendix B and Appendix C, respectively.

ERM conducted semi-annual groundwater monitoring in accordance with the Ecology-approved CMP (PES 2012) between 26 August and 30 August 2019. Groundwater monitoring results, including the delineation of benzene extent in deep groundwater, are described in Section 4.2. Well installation activities for the delineation of benzene extent are described in detail in the Groundwater Benzene Delineation Report dated 12 November 2019 (ERM 2019b).

4.2 Performance Groundwater Monitoring

Groundwater monitoring activities were conducted in accordance with the Ecology-approved CMP (PES 2010). This monitoring included collection of hydraulic data from the monitoring well network and sampling groundwater from monitoring wells identified for groundwater performance monitoring in the CMP (with modifications according to Ecology approval of the modified monitoring schedule presented in the 2018 Annual Groundwater Monitoring Report Rev 1 [PES 2010, ERM 2019a, Table 3]). Water levels from the monitoring well network were measured on 30 May and 29 August 2019 using an electronic water level meter.

Groundwater samples were collected from the monitoring well network from 31 May to 3 June and from 26 August to 30 August 2019. Groundwater samples were collected using standard low flow sampling techniques, a peristaltic pump, and dedicated sampling tubing. Field parameters (temperature, pH, electrical conductivity, oxidation reduction potential, and dissolved oxygen) were monitored continuously during well purging using a flow-through cell and water quality meter. Purging was considered complete when temperature, pH, and electrical conductivity had stabilized for three consecutive 3-minute intervals.

Groundwater samples were collected in laboratory-supplied sample containers, marked with identifying information, and submitted under standard chain-of-custody to SGS Laboratories for analysis of VOCs.

4.2.1 Groundwater Elevations

Water level measurements from the monitoring well network and the corresponding groundwater elevation data are summarized in Table 4. The monitoring well water level gauging field notes are included in Appendix B. Historical groundwater elevations are included as Table D1 in Appendix D.

4.2.1.1 Shallow Zone Groundwater

Twelve (12) wells were gauged in the shallow zone during each monitoring event. The shallow zone hydraulic conditions are generally described as a mound near MW-1 with groundwater flow to the north, east, and southeast. Groundwater flow direction in May 2019 was predominately to the north, with a hydraulic gradient of approximately 0.008 foot/foot (ft/ft) (Figure 4). Groundwater flow direction in August 2019 was predominately to the northeast with a hydraulic gradient of approximately 0.008 ft/ft (Figure 5). Shallow zone groundwater elevations measured in May 2019 were approximately 1.0 foot higher than August 2019 which is consistent with historic seasonal variations.

4.2.1.2 Deep Zone Groundwater

Fourteen (14) wells were gauged in the deep zone during the May groundwater monitoring event. The August monitoring event included the same 14 wells plus the newly installed MW-29D. The groundwater flow direction in May 2019 was to the north-northwest with a hydraulic gradient of approximately 0.0007 ft/ft (Figure 5). The groundwater flow direction in August 2019 was to the north-northwest with a hydraulic gradient of approximately 0.001 ft/ft (Figure 6). Deep zone groundwater elevations measured in May 2019 were approximately 1.9 feet higher than August 2019 which is consistent with historic seasonal variations.

4.2.1.3 Vertical Gradients

The differences in hydraulic head and corresponding potential vertical groundwater flow between the shallow zone groundwater and deep zone groundwater at the Site were determined by assessing the average groundwater elevations in the shallow zone and deep zone groundwater wells. Shallow zone groundwater elevations observed in May and August 2019 were approximately 0.3 feet higher than those in the deep zone, indicating a slight downward vertical hydraulic gradient. The shallow zone and deep zone groundwater elevations in 2019 are generally consistent with seasonal trends and historical observations.

4.2.2 Groundwater Quality Results

The groundwater sampling field notes, including all field parameter data, are presented in Appendix B. Groundwater field parameters measured immediately prior to sample collection are summarized in Table 5.

IHS concentrations from groundwater samples collected at performance monitoring locations in May and August 2019 are summarized in Table 6. A copy of the laboratory analytical data reports are included in Appendix E. IHS concentrations in groundwater were compared to the CULs. Locations where IHSs were detected at concentrations exceeding their CULs are shown on Figures 8 through 11.

The laboratory analytical data were validated consistent with Section 5.0 of the CMP (Appendix D of the EDR [PES 2010]). Laboratory report FA64743 states that sample vials for samples MW-13-05312019, MW-16-060319, MW-5-053019, MW-17-053119, MW-22-053119, and MW-20-060319 contained headspace (>6mm). For samples MW-16-060319, MW-5-053019, MW-17-053119, and MW-20-060319 only one compound was affected and those results were qualified as estimates with a low bias (J-). For samples MW-13-05312019 and MW-22-053119, the data for all compounds was affected. The data were compared to historical results for the same wells to assess consistency of detected and non-detected results. Select VOC data from these samples were rejected because of a lack of comparable historical data. Laboratory report FA67623 indicated samples MW-20-082819, MW-13-082819, MW-18-082819, DUP-02-082819, MW-17-082819, MW-16-082819, and TB-083019-02 contained headspace (>6mm). For sample MW-20-082819, only the result for chloroethane was affected and the result was qualified as an estimate with a low bias (J-). For the trip blank sample TB-083019-02, the non-detected results were rejected (R) and the detected results were qualified as estimates with a low bias (J-). For samples MW-13-082819, MW-18-082819, DUP-02-082819, MW-17-082819, and MW-16-082919, all compounds were affected and the data were compared to historical results to assess consistency of detected and non-detected results. With the exception of the rejected results, all of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data. Data validation memoranda are presented in Appendix C, following the laboratory analytical data reports.

4.2.2.1 Shallow Zone Groundwater

The following observations are provided based on performance monitoring for groundwater quality in the shallow zone:

- Field parameter data collected in June and August 2019 indicate that the shallow zone groundwater has a neutral pH, is slightly reducing, and anoxic (Table 5).
- The June 2019 results show groundwater samples from 4 of the 12 shallow zone monitoring locations either had no detectable IHSs or concentrations of IHSs were below the CULs. Groundwater samples from the other 8 shallow zone monitoring locations had reported concentrations of one or more IHS (i.e., tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cDCE], vinyl chloride [VC], 1,1-dichloroethane, and benzene), exceeding their respective CULs (Table 6, Figure 8).
- The August 2019 results show groundwater samples from 5 of the 12 shallow zone monitoring locations had no detectable IHSs or concentrations of IHSs were below the CULs. Groundwater samples from the other 7 shallow zone monitoring locations had reported concentrations of one or more IHS (i.e., PCE, TCE, cDCE, VC, 1,1-dichloroethane, and benzene), exceeding the CULs (Table 6, Figure 9).
- No confirmed off-site migration of groundwater containing IHS concentrations exceeding the applicable CULs was evident within the shallow zone groundwater. However, concentrations of TCE slightly above the CUL were detected in one or both of the eastern site boundary wells (MW-8 and MW-9) during both 2019 monitoring events.

4.2.2.2 Deep Zone Groundwater

The following observations are provided based on the groundwater monitoring in the deep zone:

- Field parameters data collected in June and August 2019 indicate that deep zone groundwater has a neutral pH, is slightly reducing, and anoxic (Table 5).
- The June 2019 results show groundwater samples from 4 of 11 deep zone monitoring locations either had no detectable IHSs or concentrations of the IHSs were below the CULs. Groundwater samples from the other 7 deep zone monitoring locations had reported concentrations of one or more IHS (i.e., 1,2-dichloroethane, benzene, ethylbenzene, and total xylenes), exceeding the CULs (Table 6, Figure 10).

- The August 2019 results show groundwater samples from 5 of the 12 deep zone monitoring locations either had no detectable IHSs or concentrations of the IHSs were below the CULs. Groundwater samples from the other 7 deep zone monitoring locations reported concentrations of one or more IHS (i.e., 1,2- dichloroethane, VC, benzene, and total xylenes), exceeding the CULs (Table 6, Figure 11).
- Groundwater containing IHSs at concentrations exceeding the applicable CULs is controlled on site with the exception of benzene and vinyl chloride, which were reported at concentrations exceeding their CULs in groundwater samples from off-site monitoring wells MW-20 and MW-27, respectively. However, were not detected in down gradient monitoring well MW-29D.

4.2.2.3 Deep Groundwater Benzene Delineation

The interpreted extent of benzene in deep zone groundwater based on the August 2019 sample results is shown on Figure 11. These data show that the off-site extent of benzene in deep groundwater is horizontally and vertically bounded. In a letter dated 27 November 2019, Ecology approved the Deep Groundwater Benzene Delineation Report and indicated their agreement with these findings.

4.2.3 Groundwater Quality Trends

Groundwater quality data from April 1995 through October 2010 is included in Appendix D, whereas groundwater quality data from May 2010 onward is provided in Table 6. Time versus IHS concentration trend plots have been updated to include the June and August 2019 results, and the updated trend plots are provided in Appendix F. The plots (Figures F1 through F25) include selected parent IHSs (1,1,1-trichloroethane and PCE) and their breakdown products (1,1-dichloroethane, TCE, 1,1-dichloroethene, cDCE, chloroethane, and VC). Concentration trends for benzene at select wells (MW-16, MW-17, MW-19, MW-20, and MW-29D) located within or near the benzene impacts in deep zone groundwater are displayed on Figure F26. Benzene, ethylbenzene, toluene, and total xylenes for monitoring well MW-21 are displayed on Figure F27.

4.2.3.1 Shallow Zone Groundwater

Based on trend plots in Appendix F, the following IHS concentration trend observations can be made for shallow zone groundwater since approximately 2013:

- The concentrations of IHSs in shallow zone groundwater at MW-02, MW-06, and MW-10 have been either stable or decreasing at levels below the CULs.
- The concentrations of benzene, ethylbenzene, toluene, and total xylenes in shallow zone groundwater throughout the site, with one exception, have been stable or decreasing at levels below the CULs. The exception is MW-04, which has had stable or decreasing concentrations of benzene at levels exceeding its CUL.
- The concentrations of PCE and its breakdown products in shallow zone groundwater at MW-01, MW-03, MW-04, MW-05, MW-07, MW-08, MW-09, MW-12, and MW-23 have been generally stable or slightly decreasing at levels exceeding their CULs.
- The concentrations of reductive dechlorination breakdown products cDCE, chloroethane, and VC have varied in the source area wells over the project duration with some intermittent increases that are indicative of reductive dechlorination.
- IHS concentrations have been generally stable or decreasing since groundwater monitoring began and indicate the long-term effectiveness of 1) enhanced bioremediation, 2) engineering controls (i.e., maintain asphalt and concrete covering), and 3) natural attenuation at controlling migration of shallow zone groundwater containing IHSs at concentrations that exceed the applicable CULs.

4.2.3.2 Deep Zone Groundwater

Based on trend plots in Appendix F, the following IHS concentration trend observations can be made for deep zone groundwater.

- Over the past 4 to 5 years (since approximately 2013 and 2014, depending on the date of well installation), the concentrations of IHSs in deep zone groundwater at MW-14, MW-18, and MW-28 (on site) have remained at levels below the CULs with the following exception:
  - The concentration of vinyl chloride in deep zone groundwater at MW-27 slightly exceeded its CUL in June 2019 before returning to levels below its CUL in August 2019.
  - During this period, the IHS concentrations were stable or decreasing at MW-18, MW-27 and MW-28, but stable or slightly increasing at MW-14.
- Over the past 4 to 5 years, the concentrations of IHSs in deep zone groundwater at MW-17, MW-19, MW-20 and MW-21 have remained at levels below the CULs with the following exceptions:
  - The concentrations of benzene exceed its CUL in deep zone groundwater at MW-17, MW-19, and MW-20 and the benzene concentrations in these wells are stable or slightly decreasing.
  - The concentrations of ethylbenzene exceed its CUL in deep zone groundwater at MW-21 and the ethylbenzene concentrations in this well are stable to decreasing.
  - The concentrations of total xylenes exceeds its CUL in deep zone groundwater at MW-21 and the total xylene concentrations in this well are increasing.

4.2.4 Recommendations

Based on the 2019 groundwater monitoring results and review of historical IHS concentration data (including tabulated results and time versus concentration trend plots), the following recommendations are made:

- Performance monitoring for groundwater quality should continue at shallow zone groundwater monitoring locations to continue to document that groundwater containing IHSs at concentrations exceeding the CULs remains within the site boundary and that no off-site migration is occurring.
- Performance monitoring for groundwater quality should continue at deep zone groundwater monitoring locations to continue to assess performance of the cleanup actions against the cleanup action goals related to controlling off-site migration of groundwater containing IHSs at concentrations exceeding the CULs.
- Evaluation of performance monitoring data at select monitoring wells and trend evaluation to verify concentrations of IHSs exceeding applicable CULs are stable or decreasing at the site boundary.
- Field staff will take photo documentation of VOC sample vials for each well to document no headspace prior to shipping to the laboratory during 2020 monitoring.

5. WORK PLANNED FOR 2020

5.1 Performance Monitoring

ERM will conduct two rounds of performance monitoring (i.e., groundwater quality) on behalf of Univar Solutions at the site. The planned activities include:

- Complete water level monitoring to support evaluation of aquifer conditions, including horizontal and vertical flow direction and gradients.

- Collect field parameters for evaluation of geochemical conditions.
- Collect groundwater samples in accordance with the performance monitoring (i.e., groundwater quality) requirements in Table 2.

5.2 Communications

Pursuant to the 2008 Agreed Order, Univar Solutions will provide project updates to Ecology via clean-up progress reports on a semi-annual basis. An Annual Report evaluating overall effectiveness of corrective action activities will be submitted in the first quarter of the 2021.

5.3 Environmental Information Management

Analytical and supporting data collected during 2020 will be submitted to Ecology in accordance with the AO Section (VIII)(G) and loaded into Ecology's Environmental Information Management (EIM) database in accordance with the Toxics Cleanup Program Policy 840 within 45 days of completion of the 2020 Annual Groundwater Monitoring Report.

Analytical and supporting data collected during 2018 and 2019 have been uploaded into Ecology's EIM database (Appendix G). Historical site data (as available) will be uploaded into Ecology's EIM data base in 2020.

6. REFERENCES

AECOM. October 2019. Benzene Bioremediation Evaluation, Univar USA, Inc. 8201 South 212th Street Kent, WA 98032 Agreed Order No. DE 5988.

Ecology (Washington State Department of Ecology). 2008. Agreed Order No. DE 5988, Univar USA Inc., 8201 South 212th Street, Kent, Washington. 20 November.

_____. 2013. Model Toxics Control Act Regulation and Statue. Publication No. 94-06. (Updates to CLARC on August 2015 accessed 25 May 2019 at https://fortress.wa.gov/ecy/clarc/)

PES Environmental, Inc. 2005. Remedial Investigation Report, Univar USA Inc., Kent, Washington. 30 August.

_____. 2009. Revised Remedial Investigation, Focused Feasibility Study Addendum, and Draft Cleanup Action Plan, Univar USA Inc., Kent, Washington. 13 May.

_____. 2010. Final Engineering Design Report, Final Cleanup Action, Univar USA Inc., Kent, Washington. Prepared for Univar USA Inc. 29 October.

_____. 2012. Construction Report, Final Cleanup Action, Univar USA Inc., Kent, Washington. Prepared for Univar USA Inc. 12 May.

TABLES

Table 1
Cleanup Levels for IHSs in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Indicator Hazardous Substance	2019 Revised Cleanup Level (ug/L)	Rationale[1]
Benzene	0.80	Method B Cancer
Toluene	640	Method B Non-Cancer
Ethylbenzene	700	Federal MCL
Total Xylenes[2]	1,600	Method B Non-Cancer
1,2,4-Trimethylbenzene (1,2,4-TMB)	80	Method B Non-Cancer
1,2-Dichloropropane (1,2-DCP)	1.2	Method B Cancer
Chloroethane[3]	-	No Value[1]
Chloroform	1.4	Method B Cancer
1,1-Dichloroethane (1,1- DCA)	7.7	Method B Cancer
1,2-Dichloroethane (1,2-DCA)	0.48	Method B Cancer
1,1-Dichloroethene (1,1-DCE)	7.0	Federal MCL
Cis-1,2-Dichloroethene (cis-1,2-DCE)	16	Method B Non-Cancer
Methylene Chloride	5.0	Federal MCL
1,1,1-Trichloroethane (TCA)	200	Federal MCL
Trichloroethylene (TCE)	0.54	Method B Cancer
Tetracholoroethylene (PCE)	5.0	Federal MCL
Vinyl chloride (VC)	0.50	WAC 173-340-705; WAC 173-340-707

Notes:

[1] = The lower of the Method B Groundwater Cleanup level or the MCL was used unless the cleanup level was lower than the lowest method reporting limit (MRL) below the lowest MRL reported by the laboratory. Since the Method B cleanup level for vinyl chloride of 0.029 μg/L is two orders of magnitude below the laboratory MRL of 0.5 μg/L, the cleanup level has been set to 0.5 μg/L, consistent with WAC 173-340-705 and WAC173-340-707

[2] = Total Xylene used xylene; m-,o-, and p- isomers

[3] = Cleanup level adjusted to "no value" based on updated toxicity values from EPA (December 2010) and based on May 2019 updates to C

μg/L= micrograms per liter

MCL = Maximum Contaminant Level

Method B Cancer = MTCA Method B standard groundwater cleanup level for carcinogenic risk

Method B Non-Cancer = MTCA Method B standard groundwater cleanup level for non-carcinogenic risk

WAC = Washington Administrative Code

Table 2
Monitoring Well Construction Summary
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA Inc.
Kent, WA

Well Identification[1]	Aquifer Screened Zone	Well Completion Date	Drilling Method	Borehole Depth (feet bgs)	Well Depth (feet bgs)	Screen Interval Depth to Top (feet bgs)	Screen Interval Depth to Bottom (feet bgs)	Screen Slot Size (inches)	Sand Pack Depth to Top (feet bgs)	Sand Pack Depth to Bottom (feet bgs)	Sand Pack Material Description
MW-13	Deep	19-Mar-03	Hollow Stem Auger	45.3	44.1	39.6	44.1	0.010	37.0	44.6	10-20 CSSI Sand
MW-14	Deep	7-Oct-03	Hollow Stem Auger	43.0	42.2	32.7	42.2	0.010	30.0	43.0	10-20 CSSI Sand
MW-15	Deep	7-Oct-03	Hollow Stem Auger	44.0	43.5	33.7	43.5	0.010	31.0	44.0	10-20 CSSI Sand
MW-16	Deep	22-Oct-03	Hollow Stem Auger	48.0	47.2	37.2	47.2	0.010	35.0	48.0	10-20 CSSI Sand
MW-17	Deep	28-Oct-03	Hollow Stem Auger	44.3	43.8	34.3	43.8	0.010	32.0	44.3	10-20 CSSI Sand
MW-18	Deep	8-Oct-03	Hollow Stem Auger	44.0	43.5	34.0	43.5	0.010	31.0	44.0	10-20 CSSI Sand
MW-19	Deep	19-Jan-04	Hollow Stem Auger	50.0	49.4	39.4	49.4	0.010	37.0	50.0	10-20 CSSI Sand
MW-20	Deep	19-Jul-05	Direct Push	44.5	43.2	33.5	43.2	0.010	31.0	43.2	10-20 CSSI Sand
MW-21	Deep	5-Sep-06	Hollow Stem Auger	43.0	44.1	34.1	44.1	0.010	29.0	40.0	10-20 CSSI Sand
MW-22	Deep	5-Sep-06	Hollow Stem Auger	45.0	42.2	32.2	42.2	0.010	32.0	41.0	10-20 CSSI Sand
MW-24	Deep	16-Mar-10	Direct Push	42.0	41.8	21.8	41.8	0.010	21.0	42.0	10-20 CSSI Sand
MW-25	Deep	17-Mar-10	Direct Push	42.0	41.8	21.8	41.8	0.010	21.0	42.0	10-20 CSSI Sand
MW-27	Deep	11-Sep-14	Hollow Stem Auger	48.0	48.0	38.0	48.0	0.010	35.0	48.0	10-20 CSSI Sand
MW-28	Deep	12-Sep-14	Hollow Stem Auger	45.0	45.0	35.0	45.0	0.010	32.5	45.0	10-20 CSSI Sand
MW-29D	Deep	7-Aug-19	Sonic	45.0	40.5	30.5	40.5	0.010	27.0	40.5	10-20 CSSI Sand

Notes:
[1] = Each well constructed of 2-inch-diameter schedule 40 polyvinyl chloride casing and screen
bgs = Below ground surface
CSSI = Colorado Silica Sand Inc.

Table 3
Performance Monitoring Schedule
Univar Solutions USA, Inc.
Kent, Washington

Monitoring Well	Groundwater Elevation Measurement	Water Quality VOCs
Shallow On-Site Monitoring Wells		
MW-1	SA	SA
MW-2	SA	SA
MW-3	SA	SA
MW-4	SA	SA
MW-5	SA	SA
MW-6	SA	SA
MW-7	SA	SA
MW-8	SA	SA
MW-9	SA	SA
MW-10	SA	SA
MW-11	SA	
MW-12	SA	SA
MW-23	SA	SA
Deep On-Site Monitoring Wells		
MW-13	SA	SA
MW-14	SA	SA
MW-16	SA	SA
MW-17	SA	SA
MW-18	SA	SA
MW-19	SA	SA
MW-21	SA	SA
MW-22	SA	SA
MW-24	SA	
MW-25	SA	
P-1	SA	
Deep Off-Site Monitoring Wells		
MW-20	SA	SA
MW-27	SA	SA
MW-28	SA	SA
MW-29D	SA	SA

Notes:
SA = semiannual
VOC = volatile organic compounds

Table 4
Groundwater Elevations
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Location	Measuring Point Elevation (ft)	Screen Interval Depth (ft)	Screen Interval Elevation (ft)	Date	Time	Depth to Water (ft)	Water Elevation (ft)
Shallow On-Site Monitoring Wells							
MW-1	33.15	4 to 19	29.15 to 14.15	03/19/18	10:12	4.01	29.14
				09/10/18	13:35	6.58	26.57
				05/30/19	13:18	4.49	28.66
				08/29/19	9:41	5.54	27.61
MW-2	33.79	4 to 19	29.79 to 14.79	03/19/18	10:16	5.73	28.06
				09/10/18	13:45	7.95	25.84
				05/30/19	15:10	6.28	27.51
				08/29/19	10:01	7.35	26.44
MW-3	32.94	4 to 19	28.94 to 13.94	03/19/18	9:13	5.60	27.34
				09/10/18	11:52	7.33	25.61
				05/30/19	12:22	6.04	26.90
				08/29/19	8:10	6.49	26.45
MW-4	32.86	4.5 to 14.5	28.36 to 18.36	03/19/18	9:55	4.38	28.48
				09/10/18	13:11	6.82	26.04
				05/30/19	13:41	4.87	27.99
				08/29/19	9:24	5.93	26.93
MW-5	32.60	4.5 to 14.5	28.10 to 18.10	03/19/18	10:38	5.18	27.42
				09/10/18	12:55	6.98	25.62
				05/30/19	12:56	5.70	26.90
				08/29/19	9:12	6.55	26.05
MW-6	33.05	4.5 to 14.5	28.55 to 18.55	03/19/18	10:23	4.40	28.65
				09/10/18	13:42	7.64	25.41
				05/30/19	13:38	5.09	27.96
				08/29/19	9:58	6.64	26.41
MW-7	32.96	4.5 to 14.5	28.46 to 18.46	03/19/18	9:00	5.55	27.41
				09/10/18	12:15	7.35	25.61
				05/30/19	13:54	6.07	26.89
				08/29/19	8:42	6.95	26.01
MW-8	33.57	4.5 to 14.5	29.07 to 19.07	03/19/18	10:32	6.12	27.45
				09/10/18	12:48	7.96	25.61
				05/30/19	12:38	6.64	26.93
				08/29/19	8:57	7.56	26.01
MW-9	33.77	5 to 15	28.77 to 18.77	03/19/18	10:27	6.18	27.59
				09/10/18	12:52	8.14	25.63
				05/30/19	12:50	6.70	27.07
				08/29/19	8:59	7.73	26.04
MW-10	32.89	5 to 15	27.89 to 17.89	03/19/18	8:52	5.41	27.48
				09/10/18	12:05	7.21	25.68
				05/30/19	13:37	5.95	26.94
				08/29/19	8:33	6.83	26.06
MW-11	32.79	5 to 20	27.79 to 12.79	03/19/18	10:37	5.31	27.48
				09/10/18	12:57	7.12	25.67
				05/30/19	12:55	5.82	26.97
				08/29/19	9:13	6.72	26.07
MW-12	32.81	5 to 20	27.81 to 12.81	03/19/18	10:40	5.33	27.48
				09/10/18	13:00	7.15	25.66
				05/30/19	12:54	5.87	26.94
				08/29/19	9:17	6.72	26.09
MW-23	32.78	5 to 15	27.78 to 17.78	03/19/18	8:57	5.33	27.45
				09/10/18	13:58	7.13	25.65
				05/30/19	13:52	5.85	26.93
				08/29/19	8:39	6.73	26.05
Deep On-Site Monitoring Wells							
MW-13	32.81	39.6 to 44.1	-6.79 to -11.29	03/19/18	11:59	5.29	27.52
				09/10/18	14:54	7.12	25.69
				05/30/19	13:23	6.28	26.53
				08/29/19	9:29	6.70	26.11
MW-14	32.60	32.7 to 42.2	-0.10 to -9.60	03/19/18	12:04	5.01	27.59
				09/10/18	15:05	6.87	25.73
				05/30/19	13:36	5.54	27.06
				08/29/19	9:52	6.44	26.16
MW-15	32.57	33.7 to 43.5	-1.13 to -10.93	Well Abandoned February 16, 2016			
MW-16	36.92	37.2 to 47.2	-0.28 to -10.28	03/19/18	12:10	9.39	27.53
				09/10/18	14:59	11.24	25.68
				05/30/19	13:29	9.94	26.98
				08/29/19	9:36	10.85	26.07
MW-17	32.6	34.3 to 43.8	-1.70 to -11.2	03/19/18	10:55	5.22	27.38
				09/10/18	14:37	6.98	25.62
				05/30/19	12:26	5.75	26.85
				08/29/19	8:16	6.66	25.94
MW-18	32.73	34.0 to 43.5	-1.27 to -10.77	03/19/18	10:53	5.29	27.44
				09/10/18	14:39	7.03	25.70
				05/30/19	12:42	5.80	26.93
				08/29/19	8:30	6.71	26.02
MW-19	33.52	39.4 to 49.4	-5.88 to -15.88	03/19/18	10:57	6.12	27.40
				09/10/18	14:33	7.85	25.67
				05/30/19	11:58	6.65	26.87
				08/29/19	8:23	7.58	25.94
MW-21	32.86	34.1 to 44.1	-1.24 to -11.24	03/19/18	12:03	5.32	27.54
				09/10/18	15:02	7.18	25.68
				05/30/19	13:20	5.85	27.01
				08/29/19	9:43	6.71	26.15
MW-22	33.18	32.2 to 42.2	0.98 to -9.02	03/19/18	11:56	5.69	27.49
				09/10/18	NM	NM	NM
				05/30/19	12:58	6.28	26.90
				08/29/19	9:21	7.13	26.05
MW-24	32.74	21.8 to 41.8	10.94 to -9.06	03/19/18	12:02	5.14	27.60
				09/10/18	15:03	7.02	25.72
				05/30/19	13:25	4.64	28.10
				08/29/19	9:32	6.55	26.19
MW-25	32.80	21.8 to 41.8	11.00 to -9.00	03/19/18	11:58	5.25	27.55
				09/10/18	14:53	7.11	25.69
				05/30/19	13:26	5.66	27.14
				08/29/19	9:31	6.66	26.14
P-1	33.62	39.0 to 44.0	-5.38 to -10.38	03/19/18	12:06	6.12	27.50
				09/10/18	15:08	7.93	25.69
				05/30/19	12:34	6.65	26.97
				08/29/19	9:03	7.56	26.06
Deep Off-site Monitoring Well							
MW-20	33.15	33.5 to 43.2	-0.35 to -10.05	03/19/18	11:14	5.87	27.28
				09/10/18	15:25	7.52	25.63
				05/30/19	12:05	6.40	26.75
				08/29/19	7:49	7.30	25.85
MW-27	32.98	38.0 to 48.0	-5.02 to -15.02	03/19/18	11:11	5.71	27.27
				09/10/18	15:22	7.41	25.57
				05/30/19	11:55	6.26	26.72
				08/29/19	7:46	7.15	25.83
MW-28	34.63	35.0 to 45.0	-0.37 to -10.37	03/19/18	11:05	7.39	27.24
				09/10/18	15:14	9.11	25.52
				05/30/19	12:18	7.90	26.73
				08/29/19	7:58	8.80	25.83
MW-29D	30.83	30.5 to 40.5	0.33 to -9.67	08/30/19	12:00	6.36	24.47

Notes:
Depth = depth in feet to water relative to the top of PVC
Elevation = elevation in feet relative to NAVD 88
NM = not measured

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
Shallow On-Site Monitoring and Pilot Test Wells							
MW-1	03/29/10	6.97	842	11.4	--	0.30	-8
	09/30/10	7.26	937	17.2	--	0.24	-10
	03/03/11	7.49	510	9.2	7.0	0.23	-13
	09/23/11	6.61	523	18.0	3.0	0.10	-106
	03/08/12	6.99	494	8.2	7.9	0.22	-44
	10/01/12	6.56	507	15.5	5.7	0.22	349[a]
	03/06/13	6.84	820	9.6	14.5	0.20	-7
	09/24/13	6.78	496	18.5	55.3	0.20	-84
	03/26/14	7.21	991	10.5	1.2	0.00	-129
	09/23/14	6.49	698	19.7	2.3	0.55	-126
	03/17/15	6.05	438	10.5	0.0	0.00	-227
	09/16/15	6.37	700	17.6	0.0	0.00	-121
	03/16/16	7.86	888	10.1	0.0	0.00	-128
	09/13/16	6.74	530	17.5	1.5	0.70	-96.4
	03/07/17	7.04	955	8.7	7.2	0.00	-94
	09/21/17	7.00	832	17.3	0.0	0.00	52
	03/20/18	6.76	701	10.8	2.6	0.42	-2.6
	09/13/18	6.77	768	18.5	0.7	1.50	-84.9
	05/31/19	6.78	1,211	16.6	3.7	0.06	-46.8
	08/27/19	6.35	1,144	24.7	2.1	0.37	-121.9
MW-2	03/26/10	6.49	390	12.6	--	0.82	7
	09/30/10	6.68	556	16.4	--	0.28	27
	03/08/11	6.87	441	12.7	85.0	0.17	8
	09/21/11	6.30	443	18.0	9.8	0.09	-91
	03/06/12	6.56	396	11.2	--	0.67	-65
	09/28/12	6.45	382	17.2	--	0.29	342[a]
	03/07/13	6.48	480	12.4	--	0.15	20
	09/24/13	6.63	349	16.8	90.7	0.20	-50
	03/26/14	6.99	495	13.8	7.2	0.00	-106
	09/24/14	6.32	547	17.4	4.3	0.00	-119
	03/17/15	6.36	253	15.5	0.0	0.00	-153
	09/17/15	6.47	619	16.6	0.0	0.00	-70
	03/15/16	7.10	525	12.3	0.0	0.00	-67
	09/13/16	6.48	481	17.4	5.1	0.50	-88.9
	03/08/17	6.13	394	9.4	7.0	0.00	-70
	09/20/17	6.62	714	14.5	0.0	0.00	-19
	03/21/18	6.35	762	14.4	0.0	0.00	-3.6
	09/13/18	6.61	453	14.8	2.9	1.67	-57
	06/03/19	6.28	446	15.1	2.4	0.13	-48.1
	08/29/19	6.11	573	20.2	3.1	0.40	-67.8
MW-3	03/30/10	6.85	601	11.6	--	0.99	-5
	09/28/10	6.98	647	15.6	--	0.28	8
	03/07/11	7.33	426	12.1	2.0	0.20	32
	09/21/11	6.71	556	16.3	1.4	0.03	-127
	03/06/12	6.97	497	10.7	--	0.11	-1
	10/01/12	6.81	519	16.2	--	0.20	308[a]
	03/07/13	6.87	662	11.7	--	0.19	102
	09/24/13	7.03	404	13.6	57.2	0.40	-97
	03/27/14	7.29	616	12.4	0.0	0.00	-154
	09/25/14	6.82	681	15.1	14.6	0.00	-135
	03/19/15	6.06	318	11.6	0.0	0.00	-226
	09/16/15	7.13	618	17.4	0.0	0.00	-125
	03/14/16	7.67	1,980	10.8	0.0	0.00	-142
	09/14/16	6.79	529	16.1	0.7	0.06	-98
	03/08/17	7.06	680	11.6	6.5	0.00	-70
	09/21/17	7.26	807	15.0	0.0	14.91[b]	-46
	03/19/18	7.02	466	12.6	1.5	0.96	-79
	09/13/18	6.98	504	13.1	3.4	0.97	-110.9
	05/31/19	6.76	563	14.0	1.6	0.16	-48.6
	08/26/19	6.32	612	18.4	2.6	0.29	-122.3
MW-4	03/29/10	6.71	1,094	9.9	--	0.58	-8
	10/01/10	6.89	1,054	16.7	--	0.55	10
	03/04/11	7.48	906	9.4	7.0	0.17	-8
	09/23/11	6.46	1,091	22.1	1.6	0.15	-64
	03/08/12	6.67	1,100	9.6	--	0.36	-16
	10/01/12	6.56	1,109	16.8	--	0.18	355[a]
	03/06/13	6.73	1,436	9.7	4.3	0.22	24
	09/24/13	6.82	823	17.8	63.8	0.00	-63
	03/25/14	7.26	1,510	13.9	0.0	0.00	-141
	09/23/14	6.49	1,210	19.2	0.5	0.00	-107
	03/17/15	6.10	730	10.5	0.0	0.00	-225

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	09/17/15	6.25	1,150	17.3	0.0	0.00	-104
	03/14/16	7.82	1,600	9.6	0.0	0.00	-93
	09/14/16	6.57	959	17.9	--	6.60	-66
	03/09/17	7.37	1,470	6.9	37.6	0.00	-97
	09/21/17	6.80	1,090	17.2	1.4	0.00	-27
	03/21/18	7.05	890	10.4	2.3	0.88	39
	09/13/18	6.72	836	15.3	4.9	2.61	-46.3
	05/31/19	6.80	958	15.8	--	0.11	-47.5
	08/27/19	6.28	1,078	21.0	--	0.41	-79.4
MW-5	04/01/10	6.39	287	12.5	16.0	0.49	27
	04/09/10	--	340	--	3.0	--	--
	04/16/10	6.38	342	13.4	8.0	0.70	26
	05/06/10	6.52	297	12.7	6.0	2.35	23
	06/09/10	6.44	283	14.1	14.0	1.61	24
	09/28/10	6.55	262	18.4	--	1.06	26
	03/03/11	6.76	203	11.6	6.0	0.55	12
	06/22/11	6.36	200	17.0	14.5	0.11	-7
	09/22/11	6.19	226	17.3	5.1	0.38	63
	10/21/11	6.11	267	15.8	9.0	0.41	34
	12/07/11	6.36	207	14.0	--	0.15	73
	03/07/12	6.39	216	12.3	--	0.29	53
	06/26/12	6.35	233	17.1	4.2	0.19	29
	09/27/12	6.14	266	18.5	0.8	0.25	346[a]
	12/19/12	6.17	362	13.0	23.0	0.34	-29
	03/06/13	6.25	360	11.2	4.4	0.18	76
	06/06/13	6.63	379	17.9	17.0	0.63	23
	09/24/13	6.45	302	14.8	54.6	0.03	20
	03/25/14	5.81	404	14.7	0.0	0.00	-141
	09/23/14	6.14	380	16.6	2.1	0.00	-49
	03/16/15	6.21	199	16.1	0.0	0.00	-100
	09/15/15	5.95	342	16.3	0.0	0.00	-34
	03/15/16	6.60	318	11.7	0.0	0.00	105
	09/14/16	6.29	263	17.0	9.7	1.05	38
	03/06/17	6.00	199	11.3	9.3	0.00	111
	09/20/17	6.54	289	14.6	0.0	13.06[b]	-4
	03/20/18	6.03	162	12.0	4.3	0.62	45
	09/11/18	6.37	200	15.0	9.3	0.54	-55.6
	05/30/19	6.12	200	17.0	3.9	0.13	-41.3
	08/27/19	6.69	223	17.9	2.7	0.41	130.1
MW-6	03/30/10	6.53	533	11.5	--	0.61	14
	09/30/10	6.55	936	15.9	--	0.35	30
	03/04/11	6.84	331	10.6	4.0	0.21	11
	09/21/11	6.23	723	17.9	3.9	0.13	-68
	03/06/12	6.53	341	10.5	--	0.25	-12
	09/28/12	6.21	717	15.3	--	0.27	315[a]
	03/07/13	6.49	511	11.1	--	0.21	76
	09/24/13	6.50	634	14.3	106.0	0.00	-52
	03/26/14	6.70	420	13.1	7.3	0.00	-60
	09/24/14	6.18	887	15.7	3.2	0.00	-94
	03/17/15	5.39	270	11.9	0.0	0.00	-155
	09/17/15	6.32	1,040	16.4	1.1	0.00	-62
	03/15/16	6.90	628	11.8	36.7	0.05	-39
	09/14/16	6.27	760	15.3	2.6	1.95	-78
	03/07/17	6.44	549	9.1	7.9	0.00	-35
	09/20/17	6.47	885	15.2	17.8	0.00	-46
	03/20/18	6.30	862	12.8	0.0	0.00	-16
	09/13/18	6.30	563	17.4	1.5	0.70	-81.2
	06/03/19	6.27	542	15.4	6.1	0.23	-47.5
	08/29/19	6.09	741	22.1	5.6	0.42	-67.1
MW-7	04/01/10	6.81	255	12.4	--	1.48	6
	09/28/10	6.71	318	17.4	--	0.27	17
	03/02/11	6.48	235	11.4	10.0	5.72	3
	06/22/11	6.33	193	19.0	38.1	0.33	109
	09/22/11	6.33	248	16.6	1.9	0.19	158
	10/20/11	6.28	389	16.1	13.0	0.30	88
	12/07/11	6.55	273	13.4	--	0.57	139
	03/07/12	6.54	200	12.3	--	1.31	95
	06/26/12	6.47	196	16.1	5.7	0.18	43
	07/12/12	6.54	197	15.8	--	0.23	-22
	09/27/12	6.26	245	18.2	1.8	0.30	383[a]
	12/19/12	6.42	641	13.0	7.0	0.46	8
	03/05/13	6.32	374	12.6	16.6	0.17	19
	06/06/13	6.74	328	16.7	9.3	0.24	81

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	09/24/13	5.97	427	17.7	0.0	0.00	45
	03/26/14	6.48	340	14.2	0.0	0.00	132
	09/25/14	6.36	402	17.5	0.0	0.00	116
	03/18/15	6.25	162	17.0	0.0	2.87	-2
	09/14/15	6.68	433	17.8	0.4	0.00	76
	03/15/16	7.01	321	12.0	0.0	2.78	96
	09/14/16	6.31	351	18.6	0.5	0.40	72
	03/08/17	6.59	270	10.3	7.4	0.00	-14
	09/19/17	6.50	341	17.9	0.0	0.00	86
	03/21/18	6.43	184	12.3	2.5	3.19	41
	09/11/18	6.31	288	17.5	3.0	1.38	101.5
	05/31/19	6.29	238	14.3	1.3	0.14	-45.2
	08/26/19	5.91	318	21.8	3.2	0.43	129.5
MW-8	04/01/10	6.29	949	11.9	--	0.79	29
	09/28/10	6.44	1,217	18.1	--	0.28	32
	03/04/11	6.81	1,317	11.0	2.0	0.50	13
	09/26/11	6.15	1,137	14.4	0.3	0.32	270
	03/06/12	6.55	1,106	11.6	--	0.50	14
	09/28/12	6.27	1,101	17.1	--	0.32	305[a]
	03/08/13	6.45	1,271	12.3	--	0.23	136
	09/24/13	6.43	854	15.9	57.0	0.69	57
	03/26/14	6.76	994	13.4	5.0	0.00	109
	09/23/14	6.27	1120	16.9	1.5	0.00	112
	03/16/15	6.40	486	15.8	0.0	0.00	-2
	09/16/15	6.52	1,190	14.1	0.0	0.00	126
	03/15/16	6.89	766	11.4	11.0	0.53	98
	09/14/16	6.38	834	16.7	2.4	0.48	30
	03/07/17	6.04	582	9.3	2.0	0.00	51
	09/21/17	6.59	849	15.3	0.0	0.00	-11
	03/20/18	6.20	542	11.6	0.7	1.00	59
	09/13/18	6.34	635	16.4	0.8	1.16	-35.1
	05/30/19	6.10	411	15.8	2.1	0.51	-42.3
	08/27/19	5.52	443	16.3	2.5	0.48	143
MW-9	03/30/10	6.58	559	11.9	--	0.72	17
	09/28/10	6.52	651	17.3	--	0.24	27
	03/04/11	6.89	505	12.0	4.0	0.24	10
	09/26/11	6.41	544	13.4	85.4	0.12	-90
	03/06/12	6.37	392	11.3	--	0.30	32
	09/28/12	6.57	641	15.3	--	0.16	272[a]
	03/08/13	6.47	557	11.9	--	0.16	95
	09/24/13	6.87	365	15.1	128.0	0.00	-67
	03/26/14	6.42	388	15.0	0.0	0.00	67
	09/24/14	6.45	472	17.1	21.2	0.00	-93
	03/17/15	6.09	239	15.7	70.4	0.94	-40
	09/16/15	6.54	769	15.9	20.7	0.00	-146
	03/15/16	6.69	490	11.5	56.3	0.00	49
	09/14/16	6.83	592	16.5	28.2	0.52	-112
	03/07/17	5.73	300	10.4	36.8	0.00	119
	09/21/17	7.19	812	14.4	0.0	0.00	-20
	03/20/18	6.00	255	13.7	7.4	0.68	37
	09/13/18	6.66	495	16.9	11.2	0.93	-113.1
	05/31/19	6.79	357	15.7	24.7	0.04	-46
	08/27/19	5.82	559	17.9	7.7	0.37	-80.5
MW-10	03/30/10	6.96	201	11.1	--	1.33	-8
	09/28/10	6.98	185	17.7	--	0.20	3
	03/04/11	7.24	160	10.7	7.0	0.15	-2
	09/26/11	6.61	152	14.9	37.8	0.32	-58
	03/07/12	6.86	141	11.2	--	0.24	-7
	09/28/12	6.67	136	18.9	--	0.21	292[a]
	03/05/13	6.54	164	11.4	--	0.16	2
	09/24/13	7.11	106	17.4	72.5	0.00	-72
	03/27/14	7.03	176	13.2	0.0	0.00	-88
	09/24/14	6.66	201	17.2	12.9	0.00	-94
	03/18/15	6.32	57	14.8	50.2	0.00	-56
	09/14/15	6.51	145	17.6	29.1	0.00	-110
	03/15/16	7.39	176	11.0	411	0.00	-78
	09/15/16	6.64	140	17.2	6.2	0.15	-80
	03/08/17	6.54	139	10.5	10.9	0.00	-51
	09/19/17	7.01	159	16.3	0.0	0.00	-70
	03/21/18	6.74	130	11.2	17.9	0.78	29
	09/12/18	6.64	152	17.7	4.6	0.65	-65.4
	05/30/19	6.65	175	17.8	13.0	1.12	-43.3
	08/26/19	6.21	214	19.9	7.7	0.27	-78.4

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
MW-11	04/01/10	6.40	286	12.0	13.0	0.46	23
	04/09/10	--	330	--	3.0	--	--
	04/16/10	6.41	326	13.6	21.0	0.12	26
	05/06/10	6.55	285	13.0	13.0	0.30	24
	06/09/10	6.43	278	14.3	13.0	0.65	25
MW-12	04/01/10	6.56	347	13.0	--	0.87	27
	09/28/10	6.52	322	18.6	--	0.35	26
	03/03/11	6.75	244	11.1	28.0	0.22	12
	06/22/11	6.87	348	16.1	41.2	0.04	-188
	09/22/11	6.51	359	16.4	12.4	0.05	-122
	10/21/11	6.41	411	15.0	35.0	0.38	11
	12/07/11	6.58	293	12.2	--	0.20	-87
	03/07/12	6.38	316	12.9	--	0.30	59
	06/27/12	6.44	533	15.5	18.4	0.22	32
	07/12/12	6.44	312	15.5	--	0.14	16
	10/02/12	6.41	324	16.3	7.9	3.60[a]	275[a]
	12/19/12	6.29	444	13.1	11.0	0.37	15
	03/06/13	6.37	436	12.2	18.1	0.15	47
	06/06/13	6.61	431	20.4	33.4	0.25	-40
	09/24/13	6.79	417	14.9	54.4	0.00	-117
	03/25/14	5.90	413	15.4	0.0	0.00	-45
	09/23/14	6.27	424	16.8	3.1	0.70	-108
	03/16/15	6.21	196	16.9	2.7	0.00	-82
	09/15/15	6.61	423	16.0	0.0	0.00	-41
	03/15/16	6.84	436	13.1	0.0	0.00	101
	09/14/16	6.38	312	16.8	3.7	0.69	9
	03/06/17	6.48	399	11.7	10.6	0.00	102
	09/20/17	6.78	364	14.7	0.0	0.00	-39
	03/20/18	6.28	396	11.8	3.5	0.00	119
	09/11/18	6.58	239	15.5	5.0	0.75	33.2
	06/03/19	6.24	269	15.1	4.5	0.23	-44
	08/27/19	5.84	278	18.0	4.3	0.36	135.5
MW-23	04/01/10	6.57	428	13.0	--	0.66	16
	09/28/10	6.67	495	19.0	--	0.19	19
	03/02/11	6.25	399	11.8	5.0	0.25	16
	06/22/11	6.27	320	15.3	26.1	0.19	70
	09/23/11	6.35	431	17.8	7.8	0.14	82
	10/20/11	6.51	512	16.7	3.0	0.36	70
	12/07/11	6.57	356	13.7	--	0.18	102
	03/07/12	6.59	386	13.1	5.2	0.18	58
	06/26/12	6.54	460	16.9	7.3	0.20	46
	07/12/12	6.54	465	15.8	--	0.17	-18
	09/27/12	6.52	409	17.1	5.2	0.26	340[a]
	12/19/12	6.51	430	13.5	64.0	0.34	65
	03/05/13	6.50	528	12.6	7.1	0.16	-15
	06/06/13	6.91	690	16.8	9.2	0.26	43
	09/24/13	6.72	364	17.0	52.4	2.17	67
	03/26/14	6.80	616	13.5	4.1	0.00	147
	09/25/14	6.53	652	17.5	0.7	0.00	107
	03/18/15	6.50	326	16.0	1.5	0.00	-39
	09/14/15	6.05	650	18.7	0.4	0.00	35
	03/15/16	7.47	729	11.0	9.8	0.00	1
	09/14/16	6.45	584	19.0	2.0	0.17	70
	03/08/17	6.23	482	11.3	7.3	0.00	15
	09/19/17	6.85	597	18.0	0.0	0.00	-28
	03/21/18	6.50	642	11.6	6.4	0.00	-4
	09/12/18	6.50	553	18.0	2.7	0.62	-53.6
	05/31/19	6.37	600	14.7	7.8	0.13	-45.8
	08/26/19	6.05	39	20.9	5.6	0.43	80.6
MW-26	04/01/10	6.44	269	12.7	34.0	0.74	19
	04/09/10	--	290	--	4.0	--	--
	04/16/10	6.49	270	13.6	21.0	0.19	23
	05/06/10	6.67	218	12.6	18.0	0.31	28
	06/09/10	6.47	207	14.9	41.7	0.76	28
Deep On-Site Monitoring Wells and Piezometer							
	03/29/10	6.53	639	12.4	15.0	0.58	18
	04/07/10	--	720	--	2.0	--	--
	04/16/10	6.67	682	14.2	9.0	0.49	24
	05/06/10	6.56	722	13.9	6.0	0.31	25
	06/09/10	6.52	753	15.7	4.0	0.20	22
	09/30/10	6.58	695	17.2	--	0.14	17
	03/03/11	6.76	552	12.9	1.0	0.20	9
	06/23/11	6.09	365	14.4	9.2	0.16	-61

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
MW-13	09/22/11	6.26	680	19.7	13.3	0.02	-86
	10/20/11	6.27	882	16.3	17.0	0.35	-28
	12/07/11	6.45	566	12.7	--	0.21	-89
	03/07/12	6.49	564	12.2	--	0.27	-13
	06/27/12	6.44	533	15.5	18.4	0.22	32
	07/12/12	6.47	571	18.5	--	0.16	-7
	10/02/12	6.39	541	16.9	6.4	0.20	221[a]
	12/19/12	6.33	694	13.1	26.0	0.31	-91
	03/07/13	6.43	688	12.9	4.4	0.16	11
	06/06/13	6.70	713	19.9	26.7	0.18	-95
	09/24/13	7.02	489	15.7	82.5	6.22	-92
	03/26/14	6.78	610	14.1	1.7	0.00	-99
	09/23/14	6.41	803	17.7	29.2	0.00	-129
	03/17/15	6.25	65	12.4	0.0	0.00	-45
	09/15/15	6.34	485	17.8	0.0	0.00	-106
	03/14/16	7.44	260	11.8	0.0	0.00	-20
	09/15/16	6.44	456	16.2	9.5	0.32	-38
	03/07/17	5.96	610	9.4	5.3	0.00	-63
	09/20/17	6.65	777	16.2	0.0	0.00	-59
	03/21/18	6.47	669	15.2	4.9	0.32	8.6
	09/11/18	6.30	522	18.0	4.4	0.71	-54.7
	05/31/19	6.27	736	16.9	9.1	0.54	-46.9
	08/28/19	6.04	809	25.6	6.5	0.43	-87.2
MW-14	03/30/10	6.58	360	13.2	--	0.73	15
	09/30/10	6.72	555	17.4	--	0.34	18
	03/04/11	6.96	316	12.0	6.0	0.15	9
	09/21/11	6.39	392	16.7	7.6	0.04	-72
	03/06/12	6.58	337	12.0	--	0.27	0
	09/28/12	6.42	366	16.3	--	0.28	294[a]
	03/07/13	6.50	451	12.4	--	0.18	49
	09/24/13	6.57	313	14.0	65.5	0.00	-23
	03/26/14	6.74	444	16.3	0.0	0.00	-86
	09/24/14	6.39	496	15.7	2.4	0.00	-89
	03/17/15	6.41	282	15.4	0.0	7.23	-144
	09/16/15	6.71	593	14.6	0.0	0.00	-69
	03/16/16	7.06	493	11.4	11.4	0.00	-50
	09/15/16	6.50	387	14.1	23.3	0.28	-51
	03/08/17	6.66	540	12.3	4.3	0.00	-54
	09/20/17	6.72	552	15.1	0.0	0.00	-61
	03/20/18	6.42	541	13.5	0.0	0.00	-17.3
	09/13/18	6.64	470	14.0	2.0	1.19	-64.6
	06/03/19	6.35	573	15.2	--	0.15	-47.6
	08/28/19	5.84	664	18.4	0.8	0.40	-57.2
MW-15	03/30/10	6.61	409	13.3	--	0.77	14
	09/30/10	6.57	506	17.0	--	0.38	19
	03/08/11	6.91	449	13.7	4.0	0.17	8
	09/21/11	6.42	462	17.2	3.0	0.06	-83
	03/06/12	6.57	403	11.3	--	0.30	-32
	10/01/12	6.43	414	14.7	--	0.31	370[a]
	03/07/13	6.50	530	12.9	--	0.17	30
	09/24/13	6.61	357	14.4	131.0	0.00	-48
	03/26/14	6.73	487	16.5	0.0	0.00	-94
	09/24/14	6.40	482	16.1	3.5	0.00	-94
	03/17/15	5.58	237	13.7	0.0	0.00	-174
	09/17/15	5.69	509	15.1	0.0	0.00	-46
	Well Abandoned February 16, 2016						
MW-16	04/02/10	6.45	691	11.5	--	0.59	24
	10/10/10	6.62	801	14.2	--	0.39	21
	03/08/11	6.76	639	12.3	6.0	0.19	7
	09/26/11	6.29	681	13.5	0.6	0.20	-71
	03/08/12	6.42	666	11.8	--	0.26	7
	10/01/12	6.28	678	13.7	--	0.29	358[a]
	03/08/13	6.54	607	11.2	--	0.21	110
	09/24/13	6.59	428	12.9	62.1	0.00	-23
	03/27/14	6.67	889	13.3	25.4	0.00	-98
	09/25/14	6.30	901	14.9	98.7	0.00	-84
	03/18/15	6.30	480	15.2	3.1	0.00	-156
	09/17/15	6.08	999	13.7	4.8	0.00	-116
	03/16/16	6.87	908	10.9	16.5	0.00	-65
	09/15/16	6.43	616	12.8	7.3	0.38	-65
	03/07/17	6.51	924	10.6	8.1	0.00	-74
	09/21/17	6.59	928	13.7	9.4	0.00	-53

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/21/18	6.34	615	12.5	40.9	0.89	19.8
	09/13/18	6.50	647	12.5	6.9	0.40	-63.5
	06/03/19	6.21	817	13.8	6.0	0.18	-48.6
	08/29/19	5.84	920	15.1	5.1	0.47	-64.5
MW-17	03/30/10	6.37	667	10.1	--	1.28	12
	10/01/10	6.68	1,111	14.2	--	0.31	23
	03/07/11	6.88	564	11.6	5.0	0.15	8
	06/23/11	6.27	415	14.6	7.1	0.08	-40
	09/23/11	6.37	927	16.2	1.4	0.10	-60
	03/08/12	6.57	911	11.9	--	0.23	-28
	06/27/12	6.57	936	15.3	14.8	0.12	-24
	07/12/12	6.53	1,033	15.9	--	0.23	-26
	10/01/12	6.36	918	13.6	77.2	0.23	346[a]
	12/19/12	6.35	1,349	10.9	16.0	0.39	-100
	03/07/12	6.47	1,128	11.4	4.4	0.18	21
	06/06/13	6.88	1,269	15.0	21.6	0.28	-89
	09/24/13	6.07	792	12.4	90.1	0.00	-55
	03/26/14	6.67	665	12.7	8.0	0.00	4
	09/25/14	6.49	914	14.6	43.1	0.00	-68
	03/19/15	6.50	499	12.3	44.3	0.00	-101
	09/17/15	6.57	1,100	14.5	5.5	0.00	-32
	03/14/16	7.22	3,590	10.9	0.00	0.00	-79
	09/14/16	6.36	720	14.8	0.90	0.14	-23
	03/08/17	6.13	835	9.4	19.9	0.00	-22
	09/19/17	6.96	1,150	13.6	0.96	0.00	-23
	03/19/18	6.57	826	11.4	NM	7.57	-50
	09/12/18	6.63	803	12.2	9.1	1.21	-79.8
	05/31/19	6.38	1,009	13.3	4.2	0.07	-48
	08/28/19	6.11	1,123	23.1	10.1	0.40	-86.1
MW-18	03/30/10	6.62	494	12.0	--	1.57	13
	09/28/10	6.68	616	16.6	--	0.24	21
	03/04/11	6.95	464	12.3	3.0	0.18	7
	06/23/11	6.32	312	15.3	9.6	0.14	-7
	09/23/11	6.37	532	16.9	3.8	0.07	-70
	03/07/12	6.54	484	13.0	6.0	0.18	15
	06/27/12	6.55	554	17.4	4.9	0.20	-18
	07/12/12	6.54	567	14.8	--	0.19	-41
	10/01/12	6.48	321	17.7	2.8	2.42[a]	353[a]
	12/19/12	6.44	697	12.3	9.0	0.42	-92
	03/05/13	6.40	657	12.7	6.7	0.17	9
	06/06/13	6.87	741	16.6	16.1	0.26	-84
	09/24/13	6.67	439	15.0	58.9	0.08	-60
	03/26/14	7.76	99	13.9	0.0	3.32	115
	09/24/14	6.38	579	16.7	7.1	0.00	-59
	03/18/15	5.55	378	14.2	0.0	0.00	-178
	09/14/15	6.47	617	16.0	0.0	0.00	-82
	03/15/16	7.11	792	12.8	0.0	0.00	-76
	09/15/16	6.32	558	15.0	1.1	0.37	-24
	03/09/17	6.09	523	11.6	11.0	0.00	1
	09/19/17	6.71	677	14.8	0.0	0.00	-54
	03/21/18	6.39	632	12.1	0.0	0.00	-16
	09/12/18	6.50	582	15.7	0.9	0.90	-27.2
	05/30/19	6.45	712	18.0	7.1	4.94	-182.1
	08/28/19	6.04	781	20.6	5.0	0.34	-76.7
MW-19	03/30/10	6.33	528	11.9	--	0.98	14
	09/28/10	6.53	722	16.4	--	0.36	29
	03/03/11	6.92	413	13.5	4.0	0.15	10
	09/21/11	6.38	530	16.6	0.0	0.14	-103
	12/07/11	6.53	556	13.3	--	0.26	-77
	03/08/12	5.65	596	15.0	--	0.19	-29
	06/27/12	6.57	430	16.6	0.8	0.16	-22
	07/12/12	6.51	466	15.4	--	0.23	21
	09/28/12	6.35	406	17.6	--	0.28	322[a]
	12/19/12	6.42	560	13.7	14.0	0.40	-93
	03/05/13	6.39	727	13.3	1.6	0.14	-31
	06/06/13	6.84	766	16.3	9.8	0.86	-72
	09/24/13	6.72	486	14.0	64.0	0.00	-98
	03/27/14	6.83	564	14.7	52.9	0.00	-90
	09/25/14	6.47	689	18.5	5.7	0.00	-87
	03/19/15	6.56	440	13.4	5.5	0.00	-138
	09/15/15	6.37	797	16.4	1.5	0.00	-119
	03/14/16	7.03	663	13.2	7.7	0.00	-93
	09/13/16	6.50	625	18.1	1.3	0.28	-83

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/09/17	6.06	555	11.9	35.8	0.00	-19
	09/19/17	6.79	820	17.4	0.0	0.00	-51
	03/19/18	6.36	514	15.8	1.9	0.53	40
	09/12/18	6.65	553	15.3	5.2	4.56	-72.9
	05/30/19	6.50	717	16.5	13.1	4.92	-154.1
	08/26/19	5.75	665	20.0	14.1	0.39	-62
MW-21	03/26/10	6.31	664	13.2	10.0	0.68	19
MW-21	04/16/10	6.54	702	13.6	19.0	0.90	22
MW-21	05/06/10	6.50	716	13.9	30.0	0.20	29
MW-21	06/09/10	6.21	741	15.0	131.0	0.16	38
MW-21	09/30/10	5.90	965	16.9	--	0.34	56
MW-21	03/02/11	6.13	779	11.4	2.0	0.31	24
MW-21	06/23/11	5.74	407	13.9	7.2	0.12	-46
MW-21	09/22/11	5.75	951	17.5	1.5	0.07	-21
MW-21	09/27/11	5.70	907	15.1	5.2	0.35	20
MW-21	10/20/11	6.67	1,205	15.0	11.0	0.31	-17
MW-21	12/07/11	5.88	845	12.6	--	0.21	-49
MW-21	03/08/12	6.00	880	13.1	--	0.19	20
MW-21	06/26/12	5.99	846	14.4	74.5	0.22	7
MW-21	07/12/12	6.03	887	15.6	--	0.15	42
MW-21	10/02/12	5.94	876	14.5	>1000	1.41[a]	238[a]
MW-21	12/20/12	5.95	1,128	11.4	96.0	0.29	-50
MW-21	03/06/13	6.16	1,125	11.0	68.0	0.22	27
MW-21	06/06/13	6.61	1,120	18.8	52.6	0.25	-89
MW-21	09/24/13	6.28	714	14.6	102.0	0.00	-56
MW-21	03/26/14	6.50	785	15.1	0.0	0.00	-110
MW-21	09/24/14	6.25	829	16.1	31.0	0.00	-88
MW-21	03/17/15	5.35	405	13.5	17.5	0.00	-172
MW-21	09/15/15	6.50	851	15.4	0.0	0.00	-85
MW-21	03/16/16	6.93	845	13.7	0.0	0.00	-76
MW-21	09/15/16	6.40	630	14.2	81.1	0.49	-81
MW-21	03/07/17	5.88	650	9.2	119	0.00	-83
MW-21	09/20/17	6.60	778	15.1	0.0	0.00	-63
MW-21	03/20/18	6.29	712	13.6	0.0	0.00	16
MW-21	09/11/18	6.26	598	16.4	6.9	0.71	-75.5
MW-21	05/31/19	6.27	628	15.5	3.9	0.14	-47.4
MW-21	08/29/19	6.04	676	18.1	5.3	0.47	-71.5
MW-22	03/29/10	6.20	665	12.0	--	0.85	22
MW-22	09/30/10	6.57	821	17.6	--	0.56	13
MW-22	03/04/11	6.77	543	12.2	45.0	0.15	12
MW-22	06/23/11	6.20	366	13.2	2.1	0.13	-30
MW-22	09/23/11	6.27	684	16.3	206.7	0.00	-85
MW-22	10/21/11	6.26	827	14.1	4.0	0.34	31
MW-22	12/07/11	6.27	583	12.5	--	0.24	-50
MW-22	03/08/12	6.49	502	10.7	20.5	0.23	-17
MW-22	06/26/12	6.44	549	14.4	8.8	0.16	-33
MW-22	07/12/12	6.35	570	16.4	--	0.20	15
MW-22	10/02/12	6.32	617	15.1	2.8	0.20	251[a]
MW-22	12/19/12	6.26	800	12.0	17.0	0.31	-96
MW-22	03/06/13	6.40	823	10.9	5.7	0.22	165
MW-22	06/06/13	6.79	881	15.9	11.6	0.32	-91
MW-22	09/25/13	6.53	564	13.7	89.1	0.00	-75
MW-22	03/26/14	6.59	769	15.0	0.0	0.00	-102
MW-22	09/24/14	6.22	769	14.9	12.2	0.00	-100
MW-22	03/17/15	6.16	430	11.9	0.0	0.00	-149
MW-22	09/15/15	6.64	833	17.4	0.8	0.00	-85
MW-22	03/16/16	6.82	904	11.6	0.0	0.00	-63
MW-22	09/15/16	6.33	753	13.8	8.7	0.55	-58
MW-22	03/07/17	6.46	1,010	10.7	7.2	0.00	-65
MW-22	09/20/17	6.60	1,070	13.9	0.0	0.00	-14
MW-22	03/21/18	6.19	132	11.6	0.0	0.00	1
MW-22	09/11/18	6.24	739	15.8	3.5	0.95	-58.7
MW-22	05/31/19	6.20	840	14.8	0.9	0.06	-47.9
MW-22	08/28/19	5.94	846	18.1	3.9	0.40	-47.7
MW-24	03/26/10	6.39	651	13.4	153.0	0.31	17
MW-24	04/16/10	6.59	671	14.0	13.0	0.36	21
MW-24	05/06/10	6.47	670	15.1	2.0	0.20	28
MW-24	06/09/10	6.52	799	15.9	10.0	0.19	24
MW-25	03/29/10	6.56	703	12.2	57.0	0.67	12
MW-25	04/07/10	--	720	--	2.0	--	--
MW-25	04/16/10	6.51	687	14.2	2.0	0.22	24
MW-25	05/06/10	6.62	744	14.0	2.0	0.31	26
MW-25	06/09/10	6.52	896	15.8	7.0	0.27	25

Table 5
Groundwater Field Parameters

Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
P-1	09/24/04	6.54	401	15.4	--	0.24	33
Deep Off-Site Monitoring Well							
MW-20	03/29/10	6.33	922	13.2	--	0.48	17
	10/01/10	6.69	1,013	15.8	--	0.40	21
	03/02/11	6.35	1,147	12.6	8.0	0.13	9
	09/26/11	6.36	930	16.6	33.0	0.29	-80
	03/08/12	6.53	946	14.0	--	0.25	-5
	10/01/12	6.37	903	16.8	--	0.14	321[a]
	03/08/13	6.45	180	11.4	--	0.19	97
	06/06/13	6.67	898	17.0	30.8	0.21	-75
	09/24/13	6.64	761	15.6	96.6	0.00	-68
	03/27/14	6.85	166	15.8	0.0	0.00	-32
	09/25/14	6.42	1,010	17.8	62.3	0.00	-84
	03/18/15	6.33	589	14.4	0.0	0.00	-154
	09/16/15	6.27	1,090	19.5	2.0	0.00	130
	03/15/16	6.97	1,310	11.8	0.2	0.00	-98
	09/15/16	6.33	943	17.5	2.4	0.09	-97
	03/08/17	6.11	957	12.3	0.1	0.00	-81
	09/19/17	6.67	1,170	15.8	2.7	0.00	-78
	03/20/18	6.26	952	14.4	9.1	0.14	-2
	09/12/18	6.56	892	14.5	5.8	0.48	-101.2
	06/03/19	6.31	1,070	15.6	8.7	0.03	-46.9
	08/28/19	5.61	1,144	17.5	5.4	0.43	-77.2
MW-27	09/24/14	6.38	566	16.2	64.3	0.00	-80
	03/18/15	6.22	339	13.5	17.8	0.00	-122
	09/16/15	6.75	631	19.5	2.2	0.00	-79
	03/15/16	6.91	699	12.7	0.0	0.00	-74
	09/15/16	6.36	522	16.7	1.5	0.12	-82
	03/08/17	6.64	700	9.7	300	0.00	-49
	09/18/17	6.56	620	16.8	0.0	0.00	-61
	03/20/18	6.37	657	15.3	0.0	0.00	0
	09/12/18	6.36	520	17.2	1.5	0.60	-60
	06/03/19	6.31	560	18.6	9.0	0.12	-44.5
	08/28/19	5.87	648	17.3	2.3	0.41	-67.2
MW-28	09/25/14	6.56	1,010	14.6	257	0.00	-95
	03/19/15	5.72	575	11.4	127	0.00	-204
	09/17/15	6.32	985	16.2	11.7	0.00	-125
	03/16/16	7.30	1,200	12.2	0.0	0.00	-99
	09/15/16	6.41	749	14.6	9.1	0.22	-94
	03/09/17	6.70	1,010	11.0	18.6	0.00	-44
	09/18/17	7.05	957	15.7	45.2	0.00	-43
	03/19/18	6.40	687	13.2	4.7	0.36	13
	09/12/18	6.70	679	13.2	7.0	0.40	-99
	06/03/19	6.45	846	15.4	23.0	0.07	-48.4
	08/28/19	5.98	899	16.0	--	0.46	-94.9
MW-29D	08/30/19	6.41	414	19.7	11.8	0.32	-64

Notes:
mS/cm - millisiemens per centimeter
ºC - degrees Celsius
NTU - Nephelometric turbidity units
mg/L - milligram per liter
mV - millivolts
-- Not Measured
[a] Likely meter malfunction
[b] Anomalous result

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
Shallow On-Site Monitoring Wells																		
MW-1	03/29/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	9.6 J	20 U	15	48	0.5 U	0.5 U	63	7.8 J	27	170	4.4
	09/30/10	339	0.5 U	18.1	0.5 U	0.5 U	0.5 U	46.5	1.0 U	28.3	70.2	1.41 J	0.5 U	173	3.16	144	301	9.51
	03/03/11	168	4.52	20.5	0.5 U	0.5 U	0.5 U	18.9	1.00	23.6	43.8	0.5 U	2.18	211	5.82	140	416	3.10
	09/23/11	138	1.96	16.0	0.5 U	0.5 U	0.700	174	1.0 U	13.5	124	1.20	0.830	38.5	3.44	1,620	949	5.74
	03/08/12	132	2.41	15.8	0.500 U	0.500 U	0.500 U	54.7	1.00 U	20.4	47.0	0.860	1.35	80.7	2.29	248	668	10.1
	10/01/12 (DUP)	88.0	0.720	23.8	0.500 U	0.500 U	0.500 U	82.0	1.00 U	15.0	19.1	0.760	0.630 J	13.4	2.94	198	461	6.10
	10/01/12	83.0	0.790	24.7	0.500 U	0.500 U	0.500 U	89.5	1.00 U	14.3	19.2	0.900	0.640 J	13.1	2.80	194	443	5.78
	03/06/13	252	2.26	22.5	0.5 U	0.5 U	0.540	79.8	1.00 U	25.2	46.6	2.08	1.13	49.4	1.86	186	556	22.3 J
	09/25/13	132	0.900	28.3	0.500 U	0.500 U	0.750	145	1.00 U	21.5	42.1	1.58	0.780	16.2	3.34	362	629	18.7
	03/26/14	303	4.02	25.2	0.500 U	0.500 U	0.761	228	1.00 U	45.2	43.2	1.23	1.11	65.2	3.02	183	323	67.1
	09/23/14	95.0	0.500 U	20.8	0.500 U	0.500 U	0.500 U	225	1.00 U	10.1	25.9	0.893	1.41	7.45	2.75	448	285.1	13.4
	03/17/15	36.9	2.5 U	24.5	1.3 U	1.3 U	1.3 U	80.3	2.5 U	1.4 J	38.1	13 U	1.3 U	3.7	0.95 J	32.7	129.8	1.1 J
	09/16/15	51.7	1.0 U	18.1	0.50 U	0.50 U	0.52	212	1.0 U	5.2	16.9	5.0 U	0.76	11.1	2.3	175	214.5	7.0
	03/16/16	33.6	1.0 U	14.6	0.50 U	0.50 U	0.34 J	112	1.0 U	1.2	44.4	5.0 U	0.32 J	7.7	1.2	83.8	201.1	0.66
	09/13/16	26.3	2.5 U	16.9	1.3 U	1.3 U	0.55 J	183	2.5 U	4.1	8.7	13 U	1.3 U	0.81 J	2.1 J	38.6	156	0.98 J
	03/07/17	10.1	2.5 U	8.4	2.5 U	2.5 U	2.5 U	58.5	2.5 U	2.5 U	22.1	10 U	2.5 U	1.5 J	2.5 U	2.6	67.3	2.5 U
	09/21/17	35.7	0.50 U	12.2	0.50 U	0.50 U	0.35 J	98.9	0.50 U	4.4	0.67	1.8 J	0.76	2.0	0.50 U	3.9	39.9	0.91
	03/20/18	16.4 J-	0.50 UJ	17.6 J-	0.50 UJ	0.50 UJ	0.19 J-	38.5 J-	0.50 UJ	0.77 J-	1.4 J-	2.0 UJ	0.26 J-	2.6 J-	0.83 J-	0.98 J-	26.5 J-	0.34 J-
	09/13/18	38.5	0.50 U	5.3	0.50 U	0.50 U	0.28 j	113	0.50 U	3.3	0.50	1.9 j	0.81	1.1	2.2	0.87	13.8	1.2
	05/31/19	35.3	0.50 U	2.9	0.50 U	0.50 U	0.18 j	32.9	0.31 j	1.1	0.78	1.9 j	0.34 j	1.8	2.0	0.17 j	5.58	0.66
	08/27/19	46.7	0.50 U	4.4	0.50 U	0.50 U	0.19 j	52.7	0.50 U	2.0	0.31 j	1.7 j	0.45 j	0.71	2.5	0.50 U	4.84	0.79
MW-2	03/29/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7
	03/29/10 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7
	09/30/10	0.61	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.07	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/07/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.690	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/21/11	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.920	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/06/12	0.520	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.640	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.290
	09/28/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.50 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.2 U
	03/07/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.50 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.2 U
	09/26/13	0.590	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.786	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/14	0.517	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.528	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/17/15	0.36 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.72 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/17/15	0.47 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.37 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/15/16	0.26 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.47 J	1.0 U	5.0 U	0.33 J	1.0 U	0.36 J	1.0 U	1.0 U	0.22 J
	09/13/16	0.44 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.80 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/08/17	0.32 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.43 J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.20 J
	09/20/17	0.46 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.1	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	03/21/18	0.36 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 J-	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.19 J-
	09/13/18	0.37 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.60	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	06/03/19	0.32 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.61	0.50 U	2.0 U	0.50 U	0.50 U	0.15 j	0.50 U	1.0 U	0.16 j
	08/29/19	0.36 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 j	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
MW-3	03/30/10	16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.30
	09/28/10	8.47	0.5 U	0.5 U	0.5 U	0.5 U	0.33 J	0.5 U	1.0 U	1.49	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/07/11	9.50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.39	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/21/11	7.07	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.41	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/06/12	5.06	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	10/01/12	7.24	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.45	0.500 U	0.500 U	0.500 UJ	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/07/13	4.75	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.03	0.500 U	0.500 U	0.500 UJ	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/13	3.76	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.900	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/27/14	2.51	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/25/14	5.38	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.21	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/19/15	2.2	1.0 U	2.0 U	0.50 U	0.50 U	0.25 J	1.0 U	1.0 U	0.61 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J
	09/16/15	20 U	20 U	40 U	10 U	10 U	10 U	20 U	20 U	20 U	20 U	100 U	10 U	20 U	20 U	20 U	20 U	10 U
	03/14/16	1.6 J	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	1.5 J	5.0 U	2.5 U
	09/14/16	3.0 J	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	1.3 J	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	03/08/17	2.2	0.50 U	0.50 U	0.50 U	0.50 U	0.20 J	0.96	0.50 U	0.71	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.30 J
	09/21/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.35 J	3.8	0.50 U	1.4	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.75
	03/19/18	0.97 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.19 J-	1.4 J-	0.50 UJ	0.81 J-	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.48 J-
	09/11/18	0.31 j	0.50 U	0.50 U	0.50 U	0.50 U	0.29 j	3.1	0.50 U	1.1	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.97
	05/31/19	0.40 j	0.50 U	0.50 U	0.50 U	0.50 U	0.26 j	1.2	0.50 U	0.71	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.53
	05/31/19 (DUP)	0.37 j	0.50 U	0.50 U	0.50 U	0.50 U	0.24 j	1.1	0.50 U	0.74	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.52
	08/26/19	0.36 j	0.50 U	0.50 U	0.50 U	0.50 U	0.29 j	1.5	0.50 U	0.86	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.57
	03/29/10	5.9	0.5 U	140	0.5 U	0.5 U	10	130	1.0 U	0.5 U	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.2
	10/01/10	5.74	0.5 U	43.4	0.5 U	0.5 U	6.78	78.1	1.0 U	0.5 U	2.17	0.63 J	0.5 U	0.5 U	0.5 U	0.53	3.80	0.19 J
	03/04/11	7.81	0.5 U	31.4	0.5 U	0.5 U	5.42	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.500	69.5
	09/23/11	4.00	0.5 U	34.1	0.5 U	0.5 U	5.24	50.4	1.0 U	1.30	3.33	0.5 U	0.5 U	0.5 U	0.5 U	2.07	9.66	1.46

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
MW-4	03/08/12	2.97	0.500 U	33.5	0.500 U	0.500 U	7.02	36.4	1.00 U	0.730	9.31	0.500 U	0.500 U	0.500 U	0.500 U	3.06	15.4	2.99
	10/01/12	2.71	0.500 U	21.5	0.500 U	0.500 U	4.72	31.3	1.00 U	0.500 U	4.29	0.500 U	0.500 UJ	0.500 U	0.500 U	2.23	8.54	2.19
	03/06/13	4.42	0.5 U	7.49	0.5 U	0.5 U	6.43	0.5 U	1.0 U	0.5 U	4.33	1.15	0.5 U	0.5 U	0.5 U	0.670	1.39	0.2 U
	09/26/13	3.58	0.500 U	2.89	0.500 U	0.500 U	7.77	24.4 J	1.00 U	0.500 U	2.34	0.500 U	0.500 U	0.500 U	0.500 U	1.78	8.00	0.200 U
	03/25/14	5.84	0.500 U	1.66	0.500 U	0.500 U	5.66	165	1.00 U	0.500 U	0.524	0.500 U	0.500 U	0.500 U	0.500 U	0.781	1.11	0.200 U
	09/23/14	1.72	0.500 U	3.56	0.500 U	0.500 U	6.35	45.5	1.00 U	0.519	1.75	0.500 U	0.500 U	0.500 U	0.500 U	4.06	6.80	0.200 U
	03/17/15	0.64 J	1.0 U	0.13 J	0.50 U	0.50 U	5.4	58.5	1.0 U	1.0 U	0.25 J	5.0 U	0.50 U	1.0 U	1.0 U	0.44 J	1.01 J	0.50 U
	09/17/15	1.0 U	1.0 U	0.99 J	0.50 U	0.50 U	6.2	45.5	1.0 U	1.0 U	0.38 J	5.0 U	0.50 U	1.0 U	1.0 U	0.74 J	5.2	0.21 J
	03/14/16	1.5	1.0 U	2.0 UJ	0.50 U	0.50 U	3.6	41.4 J	1.0 U	0.27 J	0.21 J	5.0 U	0.50 U	1.0 U	1.0 U	0.62 J	1.0 U	0.50 U
	09/14/16	0.46 J	1.0 U	1.0 J	0.50 U	0.50 U	6.9	24.9	1.0 U	1.0 U	0.39 J	5.0 U	0.50 U	1.0 U	1.0 U	0.76 J	2.26	0.39 J
	03/09/17	0.76	0.50 U	0.13 J	0.50 U	0.50 U	3.0	16.1	0.50 U	0.16 J	0.13 J	2.0 U	0.50 U	0.50 U	0.50 U	0.34 J	0.36 J	0.50 U
	09/21/17	0.59 J	0.50 U	0.45 J	0.50 U	0.50 U	6.5 J	13.0 J	0.50 U	0.22 J	0.27 J	2.0 U	0.50 U	0.50 U	0.50 U	0.66	0.83	0.52
	03/21/18	0.30 J-	0.50 UJ	0.20 J-	0.50 UJ	0.50 UJ	2.9 J-	6.7 J-	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	R	1.0 UJ	R
	09/13/18	0.36 j	0.50 U	0.17 J-	0.50 U	0.50 U	3.9	13.5	0.50 U	0.50 U	0.23 j	2.0 U	0.50 U	0.50 U	0.50 U	0.45 j	0.87 j	0.49 j
	05/31/19	0.20 j	0.50 U	0.20 j	0.50 U	0.50 U	2.3	21.8	0.50 U	0.50 U	0.24 j	2.0 U	0.50 U	0.50 U	0.50 U	0.17 j	0.14	0.26 j
	08/27/19	0.29 j	0.50 U	0.47 j	0.50 U	0.50 U	2.4	30.0 J	0.50 U	0.50 U	0.25 j	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.37	0.50 U
MW-5	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	3.9	0.5 U	0.5 U	340	0.5 U	42	0.5 U	0.5 U	0.2 U
	04/01/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	3.9	0.5 U	0.5 U	270	0.5 U	44	0.5 U	0.5 U	0.2 U
	04/09/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	1,100	10 U	35	10 U	10 U	4.0 U
	04/16/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	5.0 J	10 U	10 U	780	10 U	42	10 U	10 U	4.0 U
	05/06/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	3.2 J	10 U	10 U	640	10 U	36	10 U	10 U	2.0 U
	06/09/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	3.2	0.5 U	0.5 U	670	0.5 U	33	0.5 U	0.5 U	0.2 U
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	4.6	0.5 U	0.5 U	640	0.5 U	31	0.5 U	0.5 U	0.2 U
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	4.6	0.5 U	0.5 U	640	0.5 U	31	0.5 U	0.5 U	0.2 U
	09/28/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	5.0 U	10 U	10 U	514	10 U	22.6	10 U	10 U	2.0 UJ
	09/28/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	2.43	0.5 U	0.5 U	514	0.5 U	21.7	0.5 U	0.5 U	0.2 UJ
	03/03/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	2.12	0.5 U	0.5 U	607	0.5 U	30.2	0.5 U	0.550	0.2 U
	06/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.31	0.5 U	0.5 U	386	0.5 U	16.3	0.5 U	0.5 U	0.2 U
	09/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	7.28	0.5 U	0.5 U	682 J	0.5 U	30.2	0.5 U	0.5 U	0.590
	12/07/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	4.11	0.5 U	0.5 U	831	0.5 U	30.7	0.5 U	0.5 U	0.470
	03/07/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	51.6	0.500 U	0.500 U	326	0.500 U	27.0	0.500 U	0.500 U	0.810
	06/26/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	50.0	0.500 U	0.500 U	316	0.500 U	37.9	0.500 U	0.500 U	1.40
	09/27/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	96.0	0.500 U	0.500 U	479	0.500 U	62.0	0.500 U	0.500 U	1.55
	12/19/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	530	0.500 U	0.500 U	18.4	0.500 U	5.22	0.500 U	0.500 U	3.35
	03/06/13	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	286	0.5 U	0.5 U	106	0.5 U	55.4	0.500 U	0.5 U	4.57 J
	03/06/13 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	293	0.5 U	0.5 U	105	0.5 U	54.9	0.950	0.5 U	3.30 J
	06/06/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	291	0.500 U	0.500 U	205	0.500 U	105	0.500 U	0.500 U	3.69
	09/26/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	209	0.500 U	0.500 U	297	0.500 U	273	0.500 U	0.500 U	2.67
	09/26/13 (DUP)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	203	0.500 U	0.500 U	330	0.500 U	251	0.500 U	1.27	2.12
	03/25/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	453	0.500 U	0.500 U	86.8	0.500 U	14.9	0.500 U	0.500 U	10.1
	09/23/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	2.43	1.00 U	392	0.500 U	0.500 U	217	0.500 U	32.5	0.500 U	0.500 U	5.50
	03/16/15	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	256	5.0 U	25 U	60.2	5.0 U	35.8	5.0 U	5.0 U	1.9 J
	09/15/15	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	35.4	10 U	50 U	335	10 U	37.0	10 U	10 U	5.0 U
	03/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	34.8	1.0 U	5.0 U	196 J	1.0 U	33.4	1.0 U	1.0 U	1.2
	09/14/16	1.0 U	0.34 J	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	88.7	1.0 U	5.0 U	245 J	1.0 U	87.6	1.0 U	1.0 U	2.0
	03/06/17	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7.4	5.0 U	10.2 J	187	5.0 U	18.8	5.0 U	10 U	5.0 U
	09/20/17	0.50 U	0.36 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	109	0.50 U	2.0 U	219	0.50 U	84.5	0.50 U	1.0 U	0.42 J
	03/20/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	10.1 J-	0.50 UJ	2.0 UJ	425 J-	0.50 UJ	33.8 J-	0.50 UJ	1.0 UJ	0.50 UJ
	09/11/18	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	43.2	2.5 U	10 U	188	2.5 U	58.2	2.5 U	5.0 U	2.5 U
	05/30/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	18.7	0.50 U	2.0 U	76.4 j	0.50 U	34.7	0.50 U	1.0 U	0.50 U
	08/27/19	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	34.2	2.5 U	6.4 j	118	2.5 U	37.9	2.5 U	5.0 U	2.5 U
MW-6	03/30/10	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/10	1.51	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.87	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/04/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	09/21/11	1.15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/06/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/28/12	1.74	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/07/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/13	1.59	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/14	1.46	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/17/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/17/15	1.4	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/15/16	0.22 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/14/16	1.4	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/07/17	0.20 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	09/20/17	1.6	0.50 U	0.50 U	0.50 U	0.50 U	0.14 J	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	03/20/18	0.46 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.50 UJ
	09/13/18	0.44 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane[1]	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
	06/03/19	0.31 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	08/29/19	0.49 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
MW-7	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.3	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/28/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.38	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/02/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.98	0.5 U	0.5 U	4.18	0.5 U	0.5 U	0.920	1.16	0.2 U
	06/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.88	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.07	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	12/07/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	2.86	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/07/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	2.94	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	06/26/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	5.38	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	3.02	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	12/19/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	1.52	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/05/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	1.63	0.500 U	0.920	0.500 U	0.500 U	0.200 U
	06/06/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	4.79	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	1.89	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	6.56	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/25/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	2.14	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/14/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	7.0	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/14/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	3.3	1.0 U	0.25 J	1.0 U	1.0 U	0.50 U
	03/08/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	4.9	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	09/19/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	4.8	0.50 U	0.39 J	0.50 U	1.0 U	0.50 U
	03/21/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	4.3 J-	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.50 UJ
	09/11/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	3.3	0.50 U	0.29 j	0.50 U	1.0 U	0.50 U
	05/31/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	4.1	0.50 U	0.29 j	0.50 U	1.0 U	0.50 U
	08/26/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	3.1	0.50 U	0.28 j	0.50 U	1.0 U	0.50 U
MW-8	04/01/10	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.4	0.5 U	0.5 U	0.5 U	0.5 U	5.00	0.5 U	0.5 U	0.3
	09/28/10	0.5 U	1.11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	2.02	0.5 U	0.5 U	0.5 U	0.5 U	5.09	0.5 U	0.5 U	0.2 UJ
	03/04/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.900	0.5 U	0.5 U	0.5 U	0.5 U	3.93	0.5 U	0.5 U	0.2 U
	09/26/11	0.5 U	1.25	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	1.98	0.5 U	0.5 U	0.5 U	0.5 U	3.91	0.5 U	0.5 U	0.700
	03/06/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.890	0.500 U	0.500 U	0.500 U	0.500 U	2.96	0.500 U	0.500 U	0.200 U
	09/28/12	0.500 U	1.76	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	2.42 J	0.500 U	0.500 U	0.500 U	0.500 U	5.76	0.500 U	0.500 U	0.200 U
	03/08/13	0.500 U	0.850	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.54	0.500 U	0.500 U	0.730	0.500 U	2.39 J	0.500 U	0.500 U	0.200 U
	09/27/13	0.500 U	2.45	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	3.45	0.500 U	0.500 U	0.500 U	0.500 U	9.63	0.500 U	0.500 U	0.730
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.99	0.500 U	0.500 U	0.200 U
	09/23/14	0.500 U	1.65	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	6.07	0.500 U	0.500 U	1.74	0.500 U	6.47	0.500 U	0.500 U	0.200 U
	03/16/15	1.0 U	0.41 J	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.70 J	1.0 U	5.0 U	0.32 J	1.0 U	2.1	1.0 U	1.0 U	0.50 U
	09/16/15	1.0 U	1.7	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.8	1.0 U	5.0 U	0.50 U	1.0 U	7.4	1.0 U	1.0 U	0.31 J
	03/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.45 J	1.0 U	0.91 J	1.0 U	1.0 U	0.50 U
	09/14/16	1.0 U	1.5	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	2.6	1.0 U	5.0 U	0.36 J	1.0 U	8.7	1.0 U	1.0 U	0.35 J
	03/07/17	0.50 U	0.21 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.39 J	0.50 U	2.0 U	0.37 J	0.50 U	1.7	0.50 U	1.0 U	0.50 U
	09/21/17	0.50 U	1.4	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.5	0.50 U	2.0 U	0.51	0.50 U	11.9	0.50 U	1.0 U	0.32 J
	03/20/18	0.50 UJ	0.32 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.69 J-	0.50 UJ	2.0 UJ	0.35 J-	0.50 UJ	2.5 J-	0.50 UJ	1.0 UJ	0.50 UJ
	09/13/18	0.50 U	1.5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.6	0.50 U	2.0 U	0.37 j	0.50 U	20.0	0.50 U	1.0 U	0.47 j
	05/30/19	0.50 U	0.17 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.40 j	0.50 U	2.0 U	0.32 j	0.50 U	1.8	0.50 U	1.0 U	0.50 U
	08/27/19	0.50 U	1.3	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.9	0.50 U	2.0 U	0.29 j	0.50 U	14.5	0.50 U	1.0 U	0.37 j
MW-9	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8	0.5 U	1.0 U	15	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.5 U	3.9
	09/28/10	0.51	0.5 U	0.5 U	0.5 U	0.5 U	1.70	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.38 J	0.5 U	0.2 UJ
	09/28/10 (LAB DUP)	0.54	0.5 U	0.5 U	0.5 U	0.5 U	1.87	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.40 J	0.5 U	0.2 UJ
	03/04/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.600	0.5 U	1.0 U	4.18	0.5 U	0.5 U	0.5 U	0.5 U	1.42	0.630	1.01	1.88
	09/26/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.23	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.20 U
	03/06/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	3.95	0.500 U	0.500 U	0.500 U	0.500 U	3.22	0.500 U	0.500 U	0.690
	09/28/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U	0.5 U	0.500 U	0.500 U	0.200 U
	03/08/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	3.02	0.500 U	0.500 U	0.610	0.500 U	1.39 J	0.500 U	0.500 U	1.16 J
	09/27/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.50	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.780
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.09	0.500 U	0.500 U	0.500 U	0.500 U	2.17	0.500 U	0.500 U	0.200 U
	09/24/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.396
	03/17/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.94 J	1.0 U	5.0 U	0.50 U	1.0 U	1.2	1.0 U	1.0 U	0.50 U
	09/16/15	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	03/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.32 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0	1.0 U	1.0 U	0.50 U
	09/14/16	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	03/07/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	1.4	0.50 U	1.0 U	0.50 U
	09/21/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.75	0.50 U	0.50 U	0.67	0.50 U	2.0 U	0.50 U	0.50 U	0.32 J	0.50 U	1.0 U	0.22 J
	03/20/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	R	0.50 UJ	0.50 UJ	0.20 J-	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	1.7 J-	0.50 UJ	1.0 UJ	0.50 UJ
	09/13/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.63	0.50 U	0.50 U	0.52	0.50 U	2.0 U	0.50 U	0.50 U	0.14 j	0.50 U	1.0 U	0.52
	05/31/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.24 j	0.50 U	0.50 U	0.55	0.50 U	2.0 U	0.50 U	0.50 U	0.80	0.50 U	1.0 U	0.29 j
	08/27/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.56	0.50 U	0.50 U	0.43 j	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.46 j
	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	**5.06E+06**	**2.25E+06**	**5.7E+07**	**8.5E+06**	**2.8E+06**	**1.75E+06**	**4.5E+06**	**7.9E+06**	**4E+06**	**1.69E+05**	**1.3E+07**	**2.0E+05**	**1.33E+06**	**1.1.E+06**	**5.26.E+05**	**1.71E+05**	**2.76E+06**
	2019 Revised Cleanup Levels:	**7.7**	**7.0**	**80**	**0.48**	**1.2**	**0.80**	**-**	**1.4**	**16**	**700**	**5.0**	**5.0**	**200**	**0.54**	**640**	**1,600**	**0.50**
MW-10	09/28/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/04/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.630**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	09/26/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/07/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**3.02**	0.500 U	0.500 U	**0.610**	0.500 U	**1.39**	0.500 U	0.500 U	0.200 U
	09/28/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/05/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/26/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/27/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/14/15	1.0 UJ	1.0 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ	0.50 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.50 UJ
	03/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/08/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	09/19/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	03/21/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.50 UJ
	09/12/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	05/30/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	08/26/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
MW-11	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**16**	0.5 U	0.5 U	**290**	0.5 U	**44**	0.5 U	0.5 U	0.2 U
	04/09/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	**850**	10 U	**35**	10 U	10 U	4.0 U
	04/16/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	**22**	10 U	10 U	**500**	10 U	**66**	10 U	10 U	**4.0**
	05/06/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	**24**	10 U	10 U	**530**	10 U	**43**	10 U	10 U	**1.0** J
	06/09/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**11**	0.5 U	0.5 U	**680**	0.5 U	**33**	0.5 U	0.5 U	**0.28**
	06/09/10 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**9.3**	0.5 U	0.5 U	**580**	0.5 U	**31**	0.5 U	0.5 U	**0.21**
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**19**	0.5 U	0.5 U	**470**	0.5 U	**34**	0.5 U	0.5 U	0.2 U
MW-12	04/01/10	0.5 U	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**260**	0.5 U	0.5 U	**400**	0.5 U	**170**	0.5 U	0.5 U	**9.4**
	09/28/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**334**	0.5 U	0.5 U	**377**	0.5 U	**232**	0.5 U	0.5 U	**17.2**
	03/03/11	0.5 U	**0.730**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**239**	0.5 U	0.5 U	**856**	0.5 U	**257**	0.5 U	0.5 U	**8.93**
	06/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**314**	0.5 U	0.5 U	**429**	0.5 U	**215**	0.5 U	0.5 U	**11.7**
	09/22/11	0.5 U	**2.33**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**747**	0.5 U	0.5 U	**128** J	0.5 U	**461**	0.5 U	0.5 U	**94.6**
	09/22/11 (DUP)	0.5 U	**2.11**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**680**	0.5 U	0.5 U	**200** J	0.5 U	**529**	0.5 U	0.5 U	**93.3**
	12/07/11	0.5 U	**1.35**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**478**	0.5 U	0.5 U	**461**	0.5 U	**409**	0.5 U	0.5 U	**47.5**
	03/07/12	0.500 U	**1.32**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**579**	0.500 U	0.500 U	**337**	0.500 U	**155**	0.500 U	0.500 U	**26.3**
	03/07/12 (DUP)	0.500 U	**1.37**	0.500 U	0.500 U	0.500 U	0.500 U	**0.630**	1.00 U	**589**	0.500 U	0.500 U	**332**	0.500 U	**164**	0.500 U	0.500 U	**26.2**
	06/26/12	0.500 U	**1.31**	0.500 U	0.500 U	0.500 U	0.500 U	**1.47**	1.00 U	**636**	0.500 U	0.500 U	**407**	0.500 U	**218**	0.500 U	0.500 U	**35.2**
	10/02/12	0.500 U	**2.71**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**961**	0.500 U	0.500 U	**47.6**	0.500 U	**217**	0.500 U	0.500 U	**100**
	12/19/12	0.500 U	**2.36**	0.500 U	0.500 U	0.500 U	0.500 U	**1.35**	1.00 U	**676**	0.500 U	0.500 U	**151**	0.500 U	**225**	0.500 U	0.500 U	**41.1**
	03/06/13	0.500 U	**2.01**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**901**	0.500 U	0.500 U	**64.2**	0.500 U	**131**	0.500 U	0.500 U	**36.1**
	06/06/13	0.500 U	**1.34**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**576**	0.500 U	0.500 U	**293**	0.500 U	**312**	0.500 U	0.500 U	**34.7**
	09/25/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**78.4**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**43.8**
	03/25/14	0.500 U	**1.61**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**693**	0.500 U	0.500 U	**140**	0.500 U	**211**	0.500 U	0.500 U	**24.8**
	03/25/14 (DUP)	0.500 U	**1.61**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**633**	0.500 U	0.500 U	**144**	0.500 U	**226**	0.500 U	0.500 U	**24.6**
	09/23/14	0.500 U	**1.27**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**996**	0.500 U	0.500 U	**9.99**	0.500 U	**40.0**	0.500 U	0.500 U	**74.0**
	03/16/15	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	**464**	10 U	50 U	**24.7**	10 U	**38.1**	10 U	10 U	**12.9**
	03/16/15 (DUP)	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	**468**	10 U	50 U	**21.9**	10 U	**36.3**	10 U	10 U	**16.2**
	09/15/15	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	**581**	10 U	50 U	**6.2**	10 U	**14.7**	10 U	10 U	**35.7**
	09/15/15 (DUP)	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	**595**	10 U	50 U	**10**	10 U	**15.9**	10 U	10 U	**41.0**
	03/15/16	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	**134**	10 U	50 U	**97.1**	10 U	**32.7**	10 U	10 U	**4.4** J
	03/15/16 (DUP)	1.0 U	**0.24** J	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	**136** J	1.0 U	5.0 U	**116** J	1.0 U	**40.5**	1.0 U	1.0 U	**7.0**
	09/14/16	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	**613**	10 U	50 U	**11.3**	10 U	**16.3**	10 U	10 U	**38.0**
	09/14/16 (DUP)	1.0 U	**1.1**	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	**610**	1.0 U	5.0 U	**4.2**	1.0 U	**12.8**	1.0 U	1.0 U	**49.5**
	03/06/17	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**23.2**	2.5 U	10 U	**72.5**	2.5 U	**21.8**	2.5 U	5.0 U	**1.2** J
	03/06/17 (DUP)	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**23.5**	2.5 U	10 U	**72.4**	2.5 U	**21.5**	2.5 U	5.0 U	**1.2** J
	09/20/17	0.50 U	**0.74** J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**444** J	0.50 U	2.0 U	**20.9** J	0.50 U	**33.4** J	0.50 U	1.0 U	**16.7**
	9/20/2017 (DUP)	0.50 U	**0.74**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**502**	0.50 U	2.0 U	**20.4**	0.50 U	**32.3**	0.50 U	1.0 U	**16.8**
	03/20/18	0.50 UJ	**0.16** J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	**110** J-	0.50 UJ	2.0 UJ	**95.4** J-	0.50 UJ	**18.4** J-	0.50 UJ	1.0 UJ	**3.6** J-
	03/20/18 (DUP)	0.50 UJ	**0.16** J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	**84.0** J-	0.50 UJ	2.0 UJ	**89.0** J-	0.50 UJ	**18.1** J-	0.50 UJ	1.0 UJ	**3.1** J-
	09/11/18	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**395**	5.0 U	20 U	**18.6**	5.0 U	**14.7**	5.0 U	10 U	**26.3**
	09/11/18 (DUP)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**416**	5.0 U	20 U	**21.2**	5.0 U	**15.6**	5.0 U	10 U	**28.7**
	06/03/19	0.50 U	**0.19** j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**147**	0.50 U	2.0 U	**55.0**	0.50 U	**11.6**	0.50 U	1.0 U	**6.1**
	06/03/19 (DUP)	0.50 U	**0.17** j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**143**	0.50 U	2.0 U	**51.8**	0.50 U	**11.3**	0.50 U	1.0 U	**5.5**
	08/27/19	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**252**	5.0 U	**13.6** j	**29.0**	5.0 U	**10.1**	5.0 U	10 U	**10**
	08/27/19 (DUP)	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**240**	2.5 U	10 U	**26.6**	2.5 U	**9.2**	2.5 U	5.0 U	**9.0**
	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.5**	0.5 U	0.5 U	**2.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.20 U
	09/28/10	**0.31** J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.63**	0.5 U	0.5 U	**1.17**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/02/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.680**	1.0 U	**5.73**	**0.730**	0.5 U	**1.76**	0.5 U	0.5 U	**2.32**	**3.43**	0.20 U
	06/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.50 U	0.5 U	0.5 U	**3.16**	0.5 U	0.5 U	0.5 U	0.5 U	0.20 U
	09/23/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.50 U	0.5 U	0.5 U	**2.16**	0.5 U	0.5 U	0.5 U	0.5 U	0.20 U

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
MW-23	12/07/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.50 U	0.5 U	0.5 U	3.56	0.5 U	0.5 U	0.5 U	0.5 U	0.20 U
	03/07/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	2.04	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	06/26/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	4.86	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	2.64	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	12/19/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	1.83	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/05/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.42	1.08	0.500 U	1.85	0.500 U	1.03	0.650	1.68	0.200 U
	06/06/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	5.46	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	1.26	0.500 U	0.500 U	2.17	0.500 U	0.500 U	0.500 U	0.920	0.200 U
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	7.36	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/25/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	3.32	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/25/14 (DUP)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	3.23	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.4	1.0 U	0.33 J	1.0 U	1.0 U	0.50 U
	09/14/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.1	1.0 U	0.27 J	1.0 U	1.0 U	0.50 U
	03/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	4.5	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/14/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	4.7	1.0 U	0.36 J	1.0 U	1.0 U	0.50 U
	03/08/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	6.9	0.50 U	0.32 J	0.50 U	1.0 U	0.50 U
	09/19/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.49 J	0.50 U	2.0 U	2.5	0.50 U	0.30 J	0.50 U	1.0 U	0.41 J
	03/21/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.22 J-	0.50 UJ	2.0 UJ	5.9 J-	0.50 UJ	0.45 J-	0.50 UJ	1.0 UJ	0.50 UJ
	09/12/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.17 j	0.50 U	2.0 U	4.3	0.50 U	0.37 j	0.50 U	1.0 U	0.50 U
	05/31/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.15 j	0.50 U	2.0 U	11.3	0.50 U	1.0	0.50 U	1.0 U	0.50 U
	08/26/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.22 j	0.50 U	2.0 U	7.9	0.50 U	0.89	0.50 U	1.0 U	0.13 j
Deep On-Site Monitoring Wells																		
MW-13	03/29/10	180	10 U	86	10 U	10 U	10 U	280	20 U	500	710	10 U	10 U	10 U	10 U	2,200	1,700	900
	03/29/10 (LAB DUP)	200	10 U	110	10 U	10 U	10 U	310	20 U	580	810	10 U	10 U	10 U	10 U	2,400	1,900	890
	04/07/10	480	10 U	540	10 U	10 U	10 U	480	20 U	1,800	2,100	10 U	10 U	10 U	10 U	4,600	4,200	2,700
	04/16/10	1,100	20	640	10 U	10 U	10 U	840	20 U	3,300	2,800	10 U	10 U	10 U	10 U	5,400	5,800	4,000
	05/06/10	820	11	340	10 U	10 U	10 U	640	20 U	1,900	2,000	10 U	5.0 U	10 U	5.0 U	6,200	4,900	3,100
	06/09/10	720	11	280	10 U	10 U	10 U	1,200	20 U	1,500	1,800	10 U	20	10 U	5.0 U	5,600	3,900	4,700
	07/06/10	510	9.5	280	10 U	10 U	10 U	1,400	20 U	1,300	1,700	10 U	5.0 U	10 U	5.0 U	8,300	3,500	6,500
	09/30/10	71.0	10 U	130	10 U	10 U	10 U	820	20 U	56.8	1,010	10.8	5.0 U	10 U	5.0 U	4,180	2,560	221
	03/03/11	97.4	1.27	143	0.5 U	0.5 U	0.720	435	1.0 U	245	521	0.5 U	1.14	0.5 U	0.5 U	2,870	3,320	533
	06/23/11	25.6	0.5 U	105	0.5 U	0.610 J	0.500	216	1.0 U	18.0	619	0.84	0.5 U	0.5 U	0.5 U	1,170	2,405	99.3
	09/22/11	47.5	0.5 U	143	0.5 U	0.5 U	0.680	0.5 U	1.0 U	64.7	1,110	2.39	0.5 U	0.5 U	0.5 U	4,100	4,480	302
	12/07/11	30.2	0.5 U	218	0.5 U	0.5 U	0.630	518	1.0 U	44.2	1,270	1.72	0.680	0.5 U	0.5 U	3,690	5,170	285
	12/07/11 (DUP)	30.4	0.5 U	212	0.5 U	0.5 U	0.630	521	1.0 U	42.0	1,090	1.83	0.700	0.5 U	0.5 U	3,360	4,820	270
	03/07/12	14.2	0.500 U	192	0.500 U	0.500 U	0.600	313	1.00 U	14.7	921	0.870	0.500 U	0.500 U	0.500 U	1,230	3,862	93.0
	06/27/12	22.7	0.500 U	102	0.500 U	0.500 U	0.590	318	1.00 U	19.1	606	0.800	0.500 U	0.500 U	0.500 U	574	2,437	103
	10/02/12	3.0	0.500 U	100	0.500 U	0.500 U	0.730	256	1.00 U	1.91	438	0.500 U	0.500 U	0.500 U	0.500 U	26.4	1,748	2.11
	12/19/12	2.4	0.500 U	120	0.500 U	0.500 U	0.500 U	233	1.00 U	0.500 U	464	0.500 U	0.500 U	0.500 U	0.500 U	94.0	1,827	1.08
	03/07/13	0.500 U	0.500 U	113 J	0.500 U	0.770	0.860	278	1.00 U	0.500 U	648 J	0.500 U	0.500 U	0.500 U	0.500 U	19.2	2,628 J	0.960 J
	06/06/13	1.12	0.500 U	97.0	0.500 U	0.500 U	0.680	291	1.00 U	0.930	388	0.560	0.500 U	0.500 U	0.500 U	64.0	1,409	1.81
	09/25/13	2.50	0.500 U	205	0.500 U	0.840	0.530	250	1.00 U	0.500 U	611	0.690	0.500 U	0.500 U	0.500 U	289	2,250	0.200 U
	03/26/14	0.500 U	0.500 U	74.2	0.500 U	0.500 U	0.500 U	147	1.00 U	1.04	205	0.500 U	0.500 U	0.500 U	0.500 U	1.71	504.67	0.200 U
	09/23/14	1.07	0.500 U	133	0.500 U	0.500 U	0.500 U	162	1.00 U	0.500 U	475	0.500 U	0.549	0.500 U	0.500 U	40.9	1,873	0.200 U
	03/17/15	0.21 J	1.0 U	11.1	0.50 U	0.50 U	0.50 U	6.0	1.0 U	1.3	32.3	5.0 U	0.50 U	1.0 U	1.0 U	1.8	89.1	0.50 U
	09/15/15	0.37 J	1.0 U	38.7	0.50 U	0.50 U	0.25 J	41.4	1.0 U	0.65 J	94.6	5.0 U	0.50 U	1.0 U	1.0 U	2.7	197.2	0.79
	03/14/16	0.41 J	1.0 U	5.5	0.50 U	0.50 U	0.50 U	13.0	1.0 U	2.9	38.8	5.0 U	0.50 U	1.0 U	1.0 U	8.3	99.1	1.7
	09/15/16	0.58 J	1.0 U	67.8	0.50 U	0.50 U	0.42 J	59.8	1.0 U	0.55 J	49.5	5.0 U	0.50 U	1.0 U	1.0 U	1.5	273.9	0.57
	03/07/17	5.0 U	5.0 U	98.3	5.0 U	5.0 U	5.0 U	50.5	5.0 U	5.0 U	82.2	10.2 J	5.0 U	5.0 U	5.0 U	2.6 J	666.4	5.0 U
	09/20/17	0.35 J	0.50 U	135	0.50 U	0.50 U	0.71	66.8	0.50 U	0.30 J	44.0	2.0 U	0.50 U	0.50 U	0.50 U	1.6	612	0.26 J
	03/21/18	0.30 J-	0.50 UJ	88.7 J-	0.16 J-	0.50 UJ	0.60 J-	51.9 J-	0.50 UJ	0.26 J-	18.2 J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.99 J-	287 J-	0.42 J-
	09/11/18	0.34 j	1.3 U	69.0	1.3 U	1.3 U	0.43 j	57.4	1.3 U	0.58 j	6.7	5.0 U	1.3 U	1.3 U	1.3 U	1.7	176.61 j	0.76 j
	05/31/19	1.3 UJ	1.3 UJ	59.1 J-	1.3 UJ	1.3 UJ	0.40 J-	32.1 J-	1.3 UJ	1.3 UJ	9.6 J-	5.0 UJ	1.3 UJ	1.3 UJ	1.3 UJ	0.53 J-	171.5 J-	1.3 UJ
	08/28/19	0.26 J-	0.50 UJ	44.7 J-	0.20 J-	0.50 UJ	0.52 J-	33.7 J-	0.24 J-	0.83 J-	4.3 J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.82 J-	73.91 J-	0.59 J-
MW-14	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	09/30/10 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/04/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.640	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	09/21/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/06/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/28/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/07/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/17/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.54 J	1.0 U	0.50 U
	09/16/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/16/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.29 J	0.50 U

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
	03/08/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	09/20/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	03/20/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.50 UJ
	09/13/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.48 j	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	06/03/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	2.5	1.0 U	0.50 U
	08/28/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.33 j	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
MW-15	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/30/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	03/07/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/07/11 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/21/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/06/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.240
	10/01/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 UJ	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/07/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/26/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/24/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 UJ	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/17/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.61 J	1.0 U	0.50 U
	09/17/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.28 J	0.50 U
MW-16	04/02/10	0.5 U	0.5 U	0.9	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	2.6	0.5 U	0.5 U	0.5 U	0.5 U	6.6	7.9	0.9
	10/01/10	0.42 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	10/01/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.66 J
	03/07/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/26/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.650
	03/08/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.520
	10/01/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 UJ	0.500 U	0.500 U	0.500 U	0.500 U	0.510
	03/08/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 UJ	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	09/27/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/27/14	0.880	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.700
	09/25/14	0.568	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	0.55 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.45 J	1.0 U	0.46 J
	09/17/15	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	1.8 J	5.0 U	25 U	2.5 U	5.0 U	2.5 J	5.0 U	5.0 U	2.5 U
	03/16/16	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	09/15/16	0.61 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51
	03/07/17	0.74 J	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.47 J
	09/21/17	1.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.65
	03/21/18	0.42 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.31 J-
	09/13/18	0.34 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.36 j	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.57
	06/03/19	0.42 j	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.63 J-	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.22 j	1.0 U	0.72
	08/29/19	0.44 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.75 J-	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.62 J-
MW-17	03/30/10	1.7	0.5 U	7.7	1.3	0.5 U	9.0	110	1.0 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5	75	0.2
	10/01/10	1.79	0.5 U	8.82	0.5 U	0.5 U	5.84	54.6	1.0 U	0.5 U	0.55	0.57 J	0.5 U	0.5 U	0.5 U	0.76	68.7	0.2 UJ
	03/07/11	2.00	0.5 U	10.5	1.67	0.5 U	8.85	61.7	1.0 U	0.5 U	2.10	0.5 U	0.5 U	0.5 U	0.5 U	0.950	60.2	0.2 U
	06/23/11	1.63	0.5 U	1.0 U	2.56	0.5 UJ	18.5	240	1.0 U	0.5 U	4.50	1.13	0.5 U	0.5 U	0.5 U	1.20	34.2	0.420
	09/23/11	1.91	0.5 U	12.9	3.19	0.5 U	22.2	0.5 U	1.0 U	0.5 U	9.81	1.84	0.5 U	0.5 U	0.5 U	1.63	80.7	0.460
	03/08/12	1.67	0.500 U	12.8	3.23	0.500 U	22.9	421	1.00 U	0.500 U	0.690	2.69	0.500 U	0.500 U	0.500 U	0.810	22.8	0.200 U
	06/27/12	1.95	0.500 U	11.1	3.02	0.500 U	20.0	319	1.00 U	0.500 U	0.540	1.39	0.500 U	0.500 U	0.500 U	0.730	12.0	0.200 U
	10/01/12	2.11	0.500 U	17.8	0.500 U	0.500 U	27.9	574	1.00 U	0.500 U	1.02	2.26	0.500 UJ	0.500 U	0.500 U	0.910	19.3	0.200 U
	12/19/12	1.86	0.500 U	14.9	0.500 U	0.500 U	19.6	331	1.00 U	0.500 U	0.710	0.500 U	0.500 U	0.500 U	0.500 U	0.940	17.2	0.200 U
	03/07/13	0.500 U	0.500 U	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.710	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	17.2	0.200 U
	06/06/13	1.69	0.500 U	13.2	0.500 U	0.500 U	24.5	552	1.00 U	0.500 U	0.500 U	2.55	0.500 U	0.500 U	0.500 U	0.770	17.97	0.200 U
	09/26/13	1.76	0.500 U	21.5	3.91	0.500 U	28.8	484	1.00 U	0.500 U	0.500 U	3.26	0.500 U	0.500 U	0.500 U	0.790	17.28	0.200 U
	03/26/14	1.01	0.500 U	10.6	1.59	0.500 U	9.71	175	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	7.80	0.200 U
	09/25/14	1.63	0.500 U	24.7	0.500 U	0.500 U	14.3	202	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.656	10.74	0.200 U
	03/19/15	1.2 J	5.0 U	4.6 J	1.7 J	2.5 U	13.3	172	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	1.8 J	2.5 U
	09/17/15	5.0 U	5.0 U	7.7 J	1.8 J	2.5 U	16.2	219	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	3.4 J	2.5 U
	03/14/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	1.1	13.5	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/14/16	1.1	1.0 U	7.5	1.1	0.50 U	12.4	114 J	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.55 J	6.1	0.50 U
	03/08/17	5.0 U	5.0 U	1.8 J	2.3 J	5.0 U	11.5	199	5.0 U	5.0 U	5.0 U	10.7 J	5.0 U	5.0 U	5.0 U	5.0 U	1.7 J	5.0 U
	09/19/17	0.49 J	0.50 U	0.84 J	1.7	0.50 U	21.5 J	226	0.50 U	0.50 U	0.18 J	2.0 U	0.50 U	0.50 U	0.50 U	0.63	5.1 J	0.50 U
	03/19/18	0.61 J-	0.50 UJ	0.51 J-	0.77 J-	0.50 UJ	8.0 J-	90.0 J-	0.50 UJ	0.50 UJ	0.19 J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.41 J-	2.77 J-	0.15 J-
	09/12/18	0.50 U	0.50 U	0.36 j	1.4	0.50 U	15.4	250	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.42 j	2.86	0.19 j
	05/31/19	0.50 U	0.50 U	0.39 j	1.2	0.50 U	18.0	194 J-	0.50 U	0.50 U	0.50 U	1.1 j	0.50 U	0.50 U	0.50 U	0.46 j	2.92	0.17 j
	08/28/19	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	9.3 J-	171 J-	2.5 UJ	2.5 UJ	2.5 UJ	10 UJ	2.5 UJ	2.5 UJ	2.5 UJ	0.82 J-	1.4 J-	2.5 UJ
	08/28/19 (DUP)	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	9.2 J-	203 J-	2.5 UJ	2.5 UJ	2.5 UJ	10 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	1.3 J-	2.5 UJ
	03/30/10	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.6	4.5	1.0 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.09 J
	09/28/10	0.34 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.39	1.0 U	4.40	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.26 J	0.62	5.33
	03/04/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.77	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.29	0.2 U

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
MW-18	03/04/11 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.21**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.42**	0.2 U
	06/23/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	**0.99**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.37**	**0.590**
	09/22/11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/07/12	**0.56**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**1.95**	1.00 U	**213**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.86**	**0.770**	**115**
	06/27/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**1.81**	1.00 U	**4.48**	**0.550**	0.500 U	0.500 U	0.500 U	0.500 U	**1.08**	**1.090**	**5.34**
	10/01/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**14.8**	0.500 U	0.500 U	0.500 UJ	0.500 U	**1.13**	0.500 U	0.500 U	**22.7**
	12/19/12	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**1.58**	1.00 U	**0.91**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.810**	**1.08**
	12/19/12 (DUP)	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**1.70**	1.00 U	**1.25**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.840**	**0.95**
	03/05/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.570**	1.00 U	**0.690**	**0.930**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.790**	**0.590** J
	06/06/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**1.42**	1.00 U	**0.900**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.520**	**1.20**
	09/26/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**2.85**	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.500**	0.200 U
	03/26/14	0.500 U	0.500 U	**0.504**	0.500 U	0.500 U	0.500 U	**1.34**	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.970**	0.200 U
	09/24/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**1.46**	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	**1.6**	1.0 U	**0.23** J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	**0.47** J	1.0 U	**0.25** J
	09/14/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	**0.26** J	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.22** J
	03/15/16	1.0 U	1.0 U	**0.42** J	0.50 U	0.50 U	0.50 U	**1.5**	1.0 U	1.0 U	**0.43** J	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	**0.59** J	0.50 U
	09/15/16	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	**1.1** J	1.0 U	**0.24** J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/09/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.76**	0.50 U	**0.14** J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.20** J	0.50 U
	09/19/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.47** J	0.50 U	**0.21** J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.16** J	0.50 U
	03/21/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	**0.96** J-	0.50 UJ	**0.20** J-	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	**0.18** J-
	09/12/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.67**	0.50 U	**0.16** j	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	**0.15** j
	05/30/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	08/28/19	0.50 UJ	0.50 UJ	**0.15** J-	0.50 UJ	0.50 UJ	0.50 UJ	**1.0** J-	0.50 UJ	**0.21** J-	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	**0.21** J-
MW-19	03/30/10	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**2.4**	1.0 U	**1.1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2**	**5.0**
	03/30/10 (LAB DUP)	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**2.4**	1.0 U	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.6**	**4.4**
	09/28/10	**1.06**	0.5 U	**2.00**	0.5 U	0.5 U	**0.93**	**10.4**	1.0 U	**24.0**	**2.08**	0.5 U	0.5 U	0.5 U	0.5 U	**6.43**	**8.11**	**97.2**
	03/07/11	0.5 U	0.5 U	**3.37**	0.5 U	0.5 U	**0.890**	**2.33**	1.0 U	**99.0**	**9.55**	0.5 U	0.5 U	0.5 U	0.5 U	**7.30**	**31.6**	**64.8**
	09/21/11	**2.71**	**3.26**	**1.96**	0.5 U	0.5 U	**1.01**	**6.56**	1.0 U	**1,330**	**6.29**	0.5 U	0.5 U	0.5 U	0.5 U	**16.8**	**13.27**	**633**
	12/07/11	**4.99**	**1.06**	**5.02**	0.5 U	0.5 U	**1.22**	**16.0**	1.0 U	**833**	**17.9**	0.5 U	0.5 U	0.5 U	0.5 U	**54.2**	**53.5**	**1,360**
	03/08/12	**4.70**	0.500 U	**6.48**	0.500 U	0.500 U	**1.42**	**11.1**	1.00 U	**324**	**30.5**	0.500 U	0.500 U	0.500 U	0.500 U	**64.3**	**85.2**	**572**
	06/27/12	**0.73**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	**116**	**1.26**	0.500 U	0.500 U	0.500 U	0.500 U	**0.85**	**3.11**	**118**
	09/28/12	**1.45**	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	**0.76**	1.00 U	**73.0** J	**2.42**	0.500 U	0.500 U	0.500 U	0.500 U	**1.14**	**4.73**	**81**
	12/19/12	**1.80**	0.500 U	**1.11**	0.500 U	0.500 U	0.500 U	**2.97**	1.00 U	**128**	**3.76**	0.500 U	0.500 U	0.500 U	0.500 U	**3.02**	**4.83**	**342**
	03/05/13	**10.4**	**4.33**	**8.80**	0.500 U	0.500 U	**2.31**	0.500 U	1.00 U	**1,890**	**43.0**	**0.750**	0.500 U	0.500 U	0.500 U	**54.3**	**93.1**	**1,420**
	06/06/13	**6.35** J	**3.58**	**9.91**	0.500 U	0.500 U	**1.95**	**43.6**	1.00 U	**2,560** J	**45.8**	0.500 U	0.500 U	0.500 U	0.500 U	**63.3**	**85.3**	**2,240** J
	06/06/13 (DUP)	**8.65** J	**4.68**	**11.3**	0.500 U	0.500 U	**2.46**	**59.0**	1.00 U	**4,300** J	**52.5**	**0.570**	0.500 U	0.500 U	0.500 U	**75.8**	**97.2**	**3,620** J
	09/25/13	**4.88**	0.500 U	**10.3**	0.500 U	0.500 U	**1.41**	**20.9**	1.00 U	**285**	**36.8**	0.500 U	0.500 U	0.500 U	0.500 U	**42.3**	**66.8**	**664**
	03/27/14	0.500 U	0.500 U	**1.05**	0.500 U	0.500 U	0.500 U	**0.850**	1.00 U	**1.79**	**3.28**	0.500 U	0.500 U	0.500 U	0.500 U	**1.91**	**6.81**	**4.63**
	03/27/14 (DUP)	**0.960**	0.500 U	**1.03**	0.500 U	0.500 U	0.500 U	**0.880**	1.00 U	**1.86**	**3.37**	0.500 U	0.500 U	0.500 U	0.500 U	**1.92**	**6.97**	**4.87**
	09/25/14	**2.17**	0.500 U	**11.2**	0.500 U	0.500 U	**0.688**	**5.47**	1.00 U	**0.620**	**9.91**	0.500 U	0.500 U	0.500 U	0.500 U	**0.648**	**35.82**	0.200 U
	03/19/15	**2.3**	1.0 U	**16.6**	0.50 U	0.50 U	**1.1**	**2.9**	1.0 U	**0.30** J	**1.9**	5.0 U	0.50 U	1.0 U	1.0 U	**0.73** J	**7.52**	**0.34** J
	03/19/15 (DUP)	**2.1**	1.0 U	**13.8**	0.50 U	0.50 U	**1.0**	**2.4**	1.0 U	**0.28** J	**1.3**	5.0 U	0.50 U	1.0 U	1.0 U	**0.68** J	**6.53**	**0.31** J
	09/15/15	**1.3** J	1.0 UJ	**16.3** J	0.50 UJ	0.50 UJ	**1.0** J	**14.5** J	1.0 UJ	**0.31** J	**11.7** J	5.0 UJ	0.50 UJ	1.0 UJ	1.0 UJ	**6.8** J	**15.1** J	**0.48** J
	09/15/15 (DUP)	**1.2** J	1.0 UJ	**14.9** J	0.50 UJ	0.50 UJ	**1.0** J	**12.9** J	1.0 UJ	**0.30** J	**10.4** J	5.0 UJ	0.50 UJ	1.0 UJ	1.0 UJ	**5.9** J	**13.4** J	**0.42** J
	03/14/16	5.0 U	5.0 U	**2.3** J	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	**3.6** J	25 U	2.5 U	5.0 U	5.0 U	**2.2** J	5.0 U	2.5 U
	03/14/16 (DUP)	**0.49** J	1.0 U	**4.5**	0.50 U	0.50 U	**0.55**	**1.2**	1.0 U	1.0 U	**5.6**	5.0 U	0.50 U	1.0 U	1.0 U	**0.35** J	**1.95**	0.50 U
	09/13/16	**1.4**	1.0 U	**9.7**	0.50 U	0.50 U	**0.93**	**8.9**	1.0 U	**18.1**	**11.1**	5.0 U	0.50 U	1.0 U	1.0 U	**8.8**	**14.5**	**74.8**
	09/13/16 (DUP)	**1.4**	1.0 U	**10.2**	0.50 U	0.50 U	**0.96**	**9.2**	1.0 U	**18.7**	**11.5**	5.0 U	0.50 U	1.0 U	1.0 U	**9.2**	**15.1**	**89.2**
	03/09/17	**0.98**	0.50 U	**13.1**	**0.14** J	0.50 U	**1.1**	**2.2**	0.50 U	0.50 U	**19.3**	2.0 U	0.50 U	0.50 U	0.50 U	**3.4**	**16.2**	**0.27** J
	03/09/17 (DUP)	**1.1**	0.50 U	**13.2**	**0.14** J	0.50 U	**1.2**	**2.7**	0.50 U	**0.15** J	**20.6**	2.0 U	0.50 U	0.50 U	0.50 U	**3.5**	**17.1**	**0.32** J
	09/19/17	**0.37** J	0.50 U	**11.1**	0.50 U	0.50 U	**0.82**	**3.8** J	0.50 U	**0.34** J	**13.6** J	2.0 U	0.50 U	0.50 U	0.50 U	**4.2** J	**12.9** J	**0.73**
	9/19/17 (DUP)	**0.42** J	0.50 U	**18.1**	0.50 U	0.50 U	**1.5**	**7.6** J	0.50 U	**0.42** J	**24.2** J	2.0 U	0.50 U	0.50 U	0.50 U	**7.6** J	**22.8** J	**1.1**
	03/19/18	**0.28** J-	0.50 UJ	**20.5** J-	0.50 UJ	0.50 UJ	**1.1** J-	**3.4** J-	0.50 UJ	0.50 UJ	**22.5** J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	**2.2** J-	**19.1** J-	**0.21** J-
	03/19/18 (DUP)	**0.25** J-	0.50 UJ	**17.3** J-	0.50 UJ	0.50 UJ	**0.92** J-	**3.0** J-	0.50 UJ	0.50 UJ	**19.7** J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	**1.9** J-	**16.3** J-	**0.21** J-
	09/12/18	**0.16** j	0.50 U	**7.6**	0.50 U	0.50 U	**0.78**	**2.5**	0.50 U	**0.15** j	**12.3**	2.0 U	0.50 U	0.50 U	0.50 U	**0.76**	**4.6**	**0.27** j
	09/12/18 (DUP)	**0.18** j	0.50 U	**7.0**	0.50 U	0.50 U	**0.76**	**2.5**	0.50 U	**0.15** j	**11.5**	2.0 U	0.50 U	0.50 U	0.50 U	**0.72**	**4.2**	**0.28** j
	05/30/19	**0.16** j	0.50 U	**39.8**	0.50 U	0.50 U	**1.9**	**4.5**	**0.17** j	**0.30** j	**39.9**	2.0 U	0.50 U	0.50 U	0.50 U	**1.3**	**6.2**	**0.60**
	08/26/19	**0.19** j	0.50 U	**4.3**	0.50 U	0.50 U	**0.38** j	**1.0**	0.50 U	0.50 U	**5.3**	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.70**	**0.18** j
	03/26/10	10 U	10 U	**58**	0.5 U	0.5 U	**18**	**400**	1.0 U	**280**	**740**	0.5 U	0.5 U	**8.8** J	0.5 U	**2,400**	**1,800**	**350**
	04/16/10	**810**	**19**	**190**	10 U	10 U	10 U	**1,400**	20 U	**3,800**	**1,600**	10 U	10 U	**70**	10 U	**4,700**	**3,800**	**2,100**
	05/06/10	**220**	5.0 U	**190**	10 U	10 U	10 U	**1,200**	20 U	**370**	**1,900**	10 U	5.0 U	**34**	5.0 U	**5,400**	**4,600**	**490**
	05/06/10 (DUP)	**210**	5.0 U	**180**	10 U	10 U	10 U	**1,200**	20 U	**380**	**1,800**	10 U	5.0 U	**34**	5.0 U	**5,400**	**4,600**	**520**
	06/09/10	**110**	5.0 U	**49**	10 U	10 U	10 U	**1,000**	20 U	**67**	**540**	10 U	5.0 U	**16**	5.0 U	**3,200**	**1,400**	**150**
	07/06/10	**90**	5.0 U	**98**	10 U	10 U	10 U	**1,600**	20 U	**42**	**640**	10 U	5.0 U	**13**	5.0 U	**5,500**	**1,600**	**210**
	07/06/10 (LAB DUP)	**80**	5.0 U	**76**	10 U	10 U	10 U	**1,500**	20 U	**34**	**670**	10 U	5.0 U	**11**	5.0 U	**5,000**	**1,500**	**170**
	09/30/10	**90.6**	5.0 U	**142**	10 U	10 U	10 U	**1,120**	20 U	**131**	**1,120**	**11.0**	5.0 U	10 U	5.0 U	**4,890**	**2,880**	**243**
	03/02/11	**288**	**9.28**	**174**	0.5 U	0.5 U	**0.750**	**1,130**	1.0 U	**3,330**	**1,045**	**4.61**	**1.92**	**34.7**	**2.11**	**4,630** J	**4,250**	**1,030**
	03/02/11 (DUP)	**295**	**9.09**	**175**	0.5 U	0.5 U	**0.820**	**921**	1.0 U	**2,820**	**899**	**4.93**	**1.81**	**35.5**	**1.95**	**3,830**	**3,640**	**875**
	03/02/11 (LAB DUP)	**286**	**9.12**	**177**	0.5 U	0.5 U	**0.780**	**869**	1.0 U	**2,760**	**873**	**4.73**	**1.85**	**34.3**	**1.97**	**3,760**	**3,560**	**912**

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane[1]	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
	06/23/11	219	9.72	171	0.5 U	1.15 J	0.790	921	1.0 U	2,560	983	3.04	0.780	51.2	1.44	3,630	3,720	1,290
	06/23/11 (DUP)	243	9.83	200	0.5 U	0.5 UJ	0.800	983	1.0 U	2,630	1,050	3.06	0.630	48.9	1.38	3,760	4,020	1,350
	09/22/11	112	2.72	134	0.5 U	0.5 U	0.790	0.5 U	1.0 U	842	926	4.92	0.740	5.26	0.940	6,060	3,822	1,010
	12/07/11	115	5.62	185	0.5 U	0.5 U	0.770	1,190	1.0 U	1,890	1,350	3.82	1.12	8.73	1.15	6,720	5,520	1,460
	03/08/12	70.6	2.44	128	0.500 U	0.500 U	0.660	913	1.00 U	979	1,050	2.91	1.02	4.64	0.710	5,250	4,430	801
	06/26/12	96.0	5.01	158	0.500 U	0.500 U	0.810	962	1.00 U	2,000	1,460	2.24	1.86	7.19	0.940	5,940	5,930	1,040 J
MW-21	10/02/12	73.5	4.27	156	0.500 U	0.500 U	0.970	1,170	1.00 U	1,530	1,560	2.76	1.19	4.37	1.59	6,710	6,540	1,610
	10/02/12 (DUP)	76.0	4.26	154	0.500 U	0.500 U	0.960	1,130	1.00 U	1,500	1,540	2.68	1.07	4.04	0.810	6,280	6,340	1,590
	12/20/12	76.0	3.17	154	0.500 U	0.500 U	0.880	825	1.00 U	1,070	1,490	1.35	0.86	0.500 U	0.500 U	5,600	6,200	1,210
	03/06/13	72.5	2.85	82.0	0.500 U	0.500 U	0.530	615	1.00 U	1,240	1,470	2.27	1.55	1.42	1.26	4,360	6,450	1,120
	06/06/13	89.0	0.500 U	121	0.500 U	0.500 U	0.810	928	1.00 U	988	1,290	2.27	1.17	2.81	0.500	4,520	5,310	663
	09/25/13	82.6	1.80	297	0.500 U	0.500 U	0.770	579	1.00 U	712	2,060	1.99	0.500 U	3.02	0.500 U	5,290	8,710	666
	03/26/14	58.9	0.500 U	237	0.500 U	0.500 U	0.810	615	1.00 U	227	1,380	0.880	1.17	0.500 U	0.500 U	2,650	5,840	449
	09/24/14	60.0 J	0.500 U	317 J	0.500 U	2.29 J	0.810 J	477 J	1.00 UJ	57.9 J	1,670 J	1.36 J	0.500 U	0.500 U	0.500 U	1,480 J	7,900 J	184 J
	03/17/15	30.8 J	50 U	163	25 U	25 U	25 U	317	50 U	50 U	1,120	250 U	25 U	50 U	50 U	270	4,922	13.1 J
	09/15/15	25 U	25 U	207	13 U	13 U	13 U	350	25 U	6.7 J	951	130 U	13 U	25 U	25 U	189	5,257	13.4
	03/16/16	8.4	5.0 U	157	2.5 U	2.5 U	2.5 U	288	5.0 U	21.9	1,530	25 U	2.5 U	5.0 U	5.0 U	263	8,490	23.5
	09/15/16	8.8 J	10 U	371	5.0 U	5.0 U	5.0 U	350	10 U	4.1 J	1,450	50 U	5.0 U	10 U	10 U	285	8,620	5.8
	03/07/17	50 U	50 U	261	50 U	50 U	50 U	270	50 U	50 U	1,010	200 U	50 U	50 U	50 U	238	8,500	50 U
	09/20/17	6.2	0.50 U	344	0.50 U	0.50 U	0.95	370	0.50 U	3.0	703	2.0 U	0.50 U	0.54	0.50 U	52.2 J	10,300	1.3
	03/20/18	50 UJ	50 UJ	212 J-	50 UJ	50 UJ	50 UJ	240 J-	50 UJ	50 UJ	740 J-	200 UJ	50 UJ	50 UJ	50 UJ	118 J-	5,663 J-	50 UJ
	09/11/18	25 U	25 U	306	25 U	25 U	25 U	330	25 U	25 U	267	100 U	25 U	25 U	25 U	8.3 j	6,764	25 U
	05/31/19	23.8 j	25 U	368	25 U	25 U	25 U	281	25 U	25 U	1040	100 U	25 U	25 U	25 U	136	7,069	15.4 j
	08/29/19	25 U	25 U	202	25 U	25 U	25 U	323	25 U	25 U	765	100 U	25 U	25 U	25 U	36.5	4,768	25 U
	03/29/10	24	0.5 U	44	0.5 U	0.5 U	0.5 U	480	1.0 U	0.5 U	650	10 U	25 U	0.5 U	0.5 U	840	1,500	7.4
	09/30/10	10 U	0.5 U	45.2	10 U	10 U	10 U	611	20 U	2.6 J	296	10.8	5.0 U	10 U	5.0 U	24.4	751	2.0 UJ
	03/04/11	26.9	0.780	161	0.540	0.5 U	1.20	531	1.0 U	184	531	0.5 U	0.500	0.5 U	16.7	596	2,750	74.1
	06/23/11	3.98	0.660	45.9	0.5 U	0.5 UJ	0.64	173	1.0 U	2.27	148	0.580	0.5 U	0.5 U	0.5 U	55.4	1,008	1.13
	09/23/11	7.40	0.5 U	74.2	0.5 U	0.5 U	0.920	0.5 U	1.0 U	2.10	422	1.19	0.5 U	0.5 U	0.5 U	79.0	1,828	9.27
	12/07/11	13.1	0.5 U	137	0.5 U	0.5 U	0.550	272	1.0 U	10.1	760	0.770	0.5 U	0.5 U	0.5 U	1,390	3,081	32.4
	03/08/12	13.1	0.500 U	169	0.500 U	0.500 U	0.500 U	286	1.00 U	1.15	815	0.520	0.500 U	0.500 U	0.500 U	1,630	3,388	6.8
	06/26/12	38.9	0.560	166	0.500 U	0.500 U	0.730	280	1.00 U	1,300	807	0.510	0.500 U	2.06	0.500 U	1,910	3,336	1,750 J
	06/26/12 (DUP)	38.3	0.500 U	178	0.500 U	0.500 U	0.720	282	1.00 U	1,030	743	0.500 U	0.500 U	1.93	0.500 U	1,750	3,002	1,230 J
	10/02/12	30.4	0.500 U	136	0.500 U	0.500 U	0.680	204	1.00 U	623	552	0.500 U	0.500 U	0.500 U	0.500 U	728	2,643	1,520
	12/19/12	9.76	1.63	172	0.500 U	0.500 U	0.500 U	278	1.00 U	244	732	0.500 U	1.05	0.500 U	64.5	260	3,455	208
	03/06/13	17.4	6.77	51.5 J	0.500 U	0.500 U	0.560	0.5 U	1.00 U	1,310	376 J	1.06	4.41	1.26	185	156	2,168 J	712
	06/06/13	21.9	2.60	69.5	0.500 U	0.500 U	0.510	88.0	1.00 U	1,760	199	0.500 U	0.500 U	1.86	0.500 U	550	1,004	1,600
MW-22	09/25/13	7.88	0.500 U	168	0.500 U	0.500 U	0.500 U	104	1.00 U	25.0	256	0.500 U	0.500 U	0.500 U	0.500 U	25.0	1,911	45.6
	03/26/14	9.71	0.789	105	0.500 U	0.500 U	0.500 U	113	1.00 U	426	121	0.500 U	0.500 U	0.500 U	0.500 U	55.1	1,207.4	422
	09/24/14	3.14	0.500 U	121	0.500 U	0.500 U	0.500 U	45.1	1.00 U	0.500 U	48.3	0.500 U	0.500 U	0.500 U	0.500 U	2.90	1,423.1	0.200 U
	09/24/14 (DUP)	3.19	0.500 U	142	0.500 U	0.500 U	0.500 U	59.5	1.00 U	0.500 U	43.7	0.500 U	0.500 U	0.500 U	0.500 U	2.56	1,283.5	0.345
	03/17/15	7.5 J	25 U	68.4	13 U	13 U	13 U	22.7 J	25 U	1,100	40.5	130 U	13 U	25 U	25 U	81.3	556.1	535
	09/15/15	1.9 J	2.0 UJ	36.0 J	1.0 UJ	1.0 UJ	1.0 UJ	18.9 J	2.0 UJ	64.1 J	6.6 J	10 UJ	1.0 UJ	2.0 UJ	2.0 UJ	11.4 J	235.6 J	86.1 J
	03/16/16	2.9	0.48 J	143	0.50 U	0.50 U	0.34 J	75.8	1.0 U	270	60.8	5.0 U	0.50 U	1.0 U	1.0 U	32.7	1,060	144
	09/15/16	1.2	1.0 U	79.5	0.50 U	0.50 U	0.60	92.3 J	1.0 U	7.2	11.4	5.0 U	0.50 U	1.0 U	1.0 U	2.4	247.8	10.3
	03/07/17	0.64 J	2.5 U	27.9	2.5 U	2.5 U	2.5 U	91.5	2.5 U	2.5 U	5.0	6.8 J	2.5 U	2.5 U	2.5 U	2.5 U	140	2.5 U
	09/20/17	1.2	0.50 U	80.8	0.24 J	0.50 U	0.75	90.9	0.50 U	0.31 J	7.4	2.0 U	0.50 U	0.50 U	0.50 U	0.80	262	0.43 J
	03/21/18	0.72 J-	0.50 UJ	58.4 J-	0.50 UJ	0.50 UJ	0.57 J-	89.8 J-	0.50 UJ	0.16 J-	8.5 J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.59 J-	174 J-	0.39 J-
	09/11/18	0.61 J-	0.50 UJ	42.0 J-	0.17 J-	0.50 UJ	0.56 J-	67.4 J-	0.32 J-	0.83 J-	1.8 J-	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 J-	70.74 J-	1.7 J-
	05/31/19	0.57 J-	0.24 J-	22.2 J-	0.18 J-	0.50 UJ	0.58 J-	44.7 J-	0.30 J-	60.0 J-	1.5 J-	2.0 UJ	0.50 UJ	0.50 UJ	3.3 J-	1.1 J-	16.77 J-	23.5 J-
	08/28/19	0.58 j	1.3 U	6.6	1.3 U	1.3 U	0.52 j	33.0	1.3 U	92.3	0.59 j	5.0 U	1.3 U	1.3 U	1.3 U	1.5	4.85	32.2
	03/26/10	540	17	230	0.5 U	0.5 U	0.9	160	4.5	4,100	1,900	0.5 U	0.5 U	680	160	4,800	3,600	1,200
	04/16/10	260	10 U	18	10 U	10 U	10 U	1,100	20 U	80	1,300	10 U	10 U	10 U	5.0 U	3,800	3,300	320
	05/06/10	820	5.0 U	72	10 U	10 U	10 U	900	20 U	930	1,800	10 U	5.0 U	10 U	5.0 U	6,200	4,000	1,900
MW-24	05/06/10 (LAB DUP)	850	5.0 U	71	10 U	10 U	10 U	970	20 U	980	1,800	10 U	5.0 U	10 U	5.0 U	6,800	4,400	2,000
	06/09/10	1,300	22	130	10 U	10 U	10 U	89	20 U	2,200	1,600	10 U	2.2 J	97	5.2	5,900	3,600	3,400
	07/06/10	940	14	180	10 U	10 U	10 U	1,200	20 U	2,100	1,200 J	10 U	5.0 U	120	5.0 U	7,300	2,900	4,200
	07/06/10 (DUP)	1,100	14	140	10 U	10 U	10 U	1,100	20 U	2,400	830 J	10 U	5.0 U	130	5.0 U	6,600	2,300	3,400
	03/29/10	25	0.5 U	160	0.9	0.5 U	1.9	410	1.1	2.2	940	0.5 U	0.5 U	0.5 U	0.4	1,200	1,600	2.7
	04/07/10	48	10 U	180	10 U	10 U	10 U	730	20 U	10 U	1,700	10 U	10 U	10 U	10 U	3,100	2,900	12
	04/16/10	74	10 U	310	10 U	10 U	10 U	1,900	20 U	10 U	2,200	10 U	10 U	10 U	10 U	4,100	5,100	10
MW-25	04/16/10 (LAB DUP)	70	10 U	290	10 U	10 U	10 U	1,800	20 U	10 U	2,100	10 U	10 U	10 U	10 U	4,000	5,000	9.2
	05/06/10	32	5.0 U	130	10 U	10 U	10 U	1,100	20 U	5.0 U	1,200	10 U	5.0 U	10 U	5.0 U	2,900	3,200	2.0
	06/09/10	29	5.0 U	110	10 U	10 U	10 U	820	20 U	5.0 U	680	10 U	21	10 U	5.0 U	1,200	1,700	2.0 U
	07/06/10	25	0.5 U	79	0.5 U	0.5 U	0.5 U	640	1.0 U	0.5 U	480	0.5 U	2.9	0.5 U	0.5 U	800	980	4
	04/01/10	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	20	0.5 U	0.5 U	380	0.5 U	37	0.5 U	0.5 U	0.2 U
	04/09/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10	10 U	10 U	570	10 U	28	10 U	10 U	6.4
	04/09/10 (LAB DUP)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10	10 U	10 U	550	10 U	27	10 U	10 U	6.2
MW-26	04/16/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	16	10 U	10 U	320	10 U	32	10 U	10 U	8.8

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane[1]	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50
	05/06/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	11	10 U	10 U	300	10 U	28	10 U	10 U	5.2
	06/09/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	14	10 U	10 U	350	10 U	31	10 U	10 U	12
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	12	0.5 U	0.5 U	300	0.5 U	29	0.5 U	0.5 U	9
Deep Off-Site Monitoring Wells																		
MW-20	03/29/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	18 J	140	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0	7.1	0.2
	10/01/10	0.5 U	0.5 U	1.27	0.5 U	0.5 U	15.2	195	1.0 U	0.5 U	0.5 U	0.73 J	0.5 U	0.5 U	0.5 U	0.94	4.26	0.12 J
	03/02/11	0.5 U	0.5 U	1.05	0.5 U	0.5 U	12.8	75.5	1.0 U	1.38	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.58	17.7	0.2 U
	09/26/11	0.5 U	0.5 U	0.890	0.5 U	0.5 U	13.9	161	1.0 U	0.5 U	0.5 U	0.620	0.5 U	0.5 U	0.5 U	0.930	4.33	0.2 U
	03/08/12	0.500 U	0.500 U	0.600	0.500 U	0.500 U	10.9	71.6	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.880	4.69	0.200 U
	10/01/12	0.500 U	0.500 U	1.26	0.500 U	0.500 U	14.8	161	1.00 U	0.500 U	0.500 U	0.500 U	0.500 UJ	0.500 U	0.500 U	0.950	5.10	0.200 U
	03/08/13	0.500 U	0.500 U	0.5 U	0.500 U	0.500 U	0.500 U	4.40	1.00 U	0.500 U	0.890	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.790	0.200 U
	06/06/13	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	10.3	100	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.530	3.28	0.200 U
	09/27/13	0.500 U	0.500 U	1.10	0.500 U	0.500 U	16.0	122	1.00 U	0.500 U	0.500 U	0.670	0.500 U	0.500 U	0.500 U	1.06	5.51	0.200 U
	03/27/14	0.500 U	0.500 U	1.15	0.500 U	0.500 U	11.7	92.0	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.830	5.00	0.200 U
	09/25/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	11.7	127	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	1.0 U	1.0 U	0.41 J	0.50 U	0.50 U	9.5	70.2	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.85 J	2.26	0.50 U
	09/16/15	1.0 U	1.0 U	0.31 J	0.50 U	0.50 U	14.8	171	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.72 J	3.9	0.50 U
	03/15/16	5.0 U	5.0 U	10 U	2.5 U	2.5 U	8.6	90.3	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	2.2 J	5.0 U	2.5 U
	09/15/16	2.5 U	2.5 U	5.0 U	1.3 U	1.3 U	16.2	217	2.5 U	2.5 U	2.5 U	13 U	1.3 U	2.5 U	2.5 U	0.77 J	3.3 J	1.3 U
	03/08/17	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	9.9 J	142 J	5.0 UJ	5.0 UJ	5.0 UJ	10.7 J	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	10 UJ	5.0 UJ
	09/19/17	0.50 U	0.50 U	0.30 J	0.50 U	0.50 U	21.5	232	0.50 U	0.17 J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.91	3.9	0.50 U
	03/20/18	0.50 UJ	0.50 UJ	0.50 J-	0.50 UJ	0.50 UJ	17.8 J-	137 J-	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.62 J-	3.4 J-	0.13 J-
	09/12/18	0.50 U	0.50 U	0.20 j	0.50 U	0.50 U	17.5	363	0.50 U	0.14 j	0.50 U	1.2 j	0.50 U	0.50 U	0.50 U	0.66	2.4	0.17 j
	06/03/19	0.50 U	0.50 U	0.24 j	0.50 U	0.50 U	18.4	187 J-	0.50 U	0.13 j	0.50 U	1.1 j	0.50 U	0.50 U	0.50 U	0.89	2.5	0.15 j
	08/28/19	0.50 U	0.50 U	0.17 j	0.50 U	0.50 U	14.5	234 J-	0.50 U	0.14 j	0.50 U	1.1 j	0.50 U	0.50 U	0.50 U	0.51 J+	1.69	0.50 U
MW-27	09/24/14	0.569	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/18/15	0.33 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.43 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.45 J	1.0 U	0.50 U
	09/16/15	0.46 J	1.0 U	2.0 U	0.50 U	0.50 U	0.43 J	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	0.38 J	0.50 U
	03/15/16	0.35 J	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	0.38 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	09/15/16	0.45 J	1.0 U	2.0 U	0.50 U	0.50 U	0.34 J	1.0 U	1.0 U	0.40 J	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U
	03/08/17	0.32 J	0.50 U	0.50 U	0.50 U	0.50 U	0.15 J	0.50 U	0.50 U	0.30 J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	09/18/17	0.52	0.50 U	0.50 U	0.50 U	0.50 U	0.30 J	0.50 U	0.50 U	0.42 J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.21 J
	03/20/18	0.37 J-	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.41 J-	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.18 J-
	09/12/18	0.39 j	0.50 U	0.50 U	0.50 U	0.50 U	0.18 j	0.50 U	0.50 U	0.32 j	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.24 j
	06/03/19	0.38 j	0.50 U	0.50 U	0.50 U	0.50 U	0.17 j	0.50 U	0.50 U	0.39 j	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.63	1.0 U	0.62
	08/28/19	0.42 j	0.50 U	0.50 U	0.50 U	0.50 U	0.20 j	0.50 U	0.50 U	0.24 j	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.30 j
MW-28	09/25/14	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.00 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
	03/19/15	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U	0.50 U	0.60 J	1.0 U	1.0 U	1.0 U	5.0 U	0.50 U	1.0 U	1.0 U	0.56 J	1.0 U	0.50 U
	09/17/15	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	2.6 J	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	03/16/16	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	09/15/16	5.0 U	5.0 U	10 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U
	03/09/17	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.13 J	0.24 J	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.50 UJ
	09/18/17	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.20 J	0.50 U	0.50 U	0.14 J	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	03/19/18	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.31 J-	0.50 UJ	0.50 UJ	0.50 UJ	2.0 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.0 UJ	0.50 UJ
	09/12/18	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.15 j	0.20 j	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
	06/03/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.14 j	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.62	1.0 U	0.50 U
	08/28/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.50 U
MW-29D	08/30/19	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0 U	0.50 U	0.50 U	0.50 U	1.8	1.0 U	0.50 U
INJ-1	07/09/01	9.3	0.65 J	NA	0.58 U	0.62 U	0.5 U	25	0.48 U	29	NA	U	620	0.56 U	97	NA	NA	2.9
	11/20/01	1.2	0.5 U	NA	0.5 U	0.5 U	0.21 U	2.8	0.5 U	8.1	0.5 U	1 U	17	0.5 U	30	0.5 U	0.5 U	0.50 U
	06/11/02	0.60 J	1.9	0.29 U	0.23 U	0.26 U	NA	0.46 U	0.2 U	520	0.26 U	0.39 U	8.5	0.23 U	3.7	0.2 U	0.6 U	0.44 J
INJ-2	07/09/01	< 2.3 U	3 U	NA	2.9 U	3.1 U	0.5 U	4.4 U	2.4 U	200	NA	4.9 U	6,300	2.8 U	240	NA	NA	5.5 J
	10/15/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	1.1	1.6	1 U	33	0.5 U	1.8	0.5 U	6	0.5 U
	10/22/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	2	2.9	1 U	57	0.5 U	2.8	0.53	11.3	0.5 U
	10/29/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	2.9	1.4	1 U	68	0.5 U	4.3	0.65	6.8	0.5 U
	11/19/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	1.1 U	0.50 U	0.5 U	7.3	0.89	1 U	230	0.5 U	9.2	0.5 U	4.4	0.5 U
	06/11/02	< 0.91 U	5.4	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	2,100	1.3 U	2 U	1,000	1.2 U	600	0.98 U	2.9 U	2.2 U
	06/10/03	< 0.91 U	5.3	1.5 U	1.2 U	1.3 U	NA	2.3 U	0.96 U	2,100	1.3 U	2 U	2,700	1.2 U	610	1.1 JB	2.9 U	2.2 U
INJ-3	07/09/01	3.4	0.95 J	NA	0.58 U	0.62 U	1 U	5.9	0.48 U	39	NA	0.97 U	520	0.56 U	250	NA	NA	7.3
	11/20/01	1.0 U	1.0 U	NA	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	49	1.0 U	2 U	670	1.0 U	130	1.0 U	1.0 U	1.8
	06/11/02	1.2 J	3.4	0.71 U	0.57 U	0.62 U	1.3	1.2 U	0.48 U	1,200	0.65 U	0.97 U	530	0.57 U	240	0.49 U	1.5 U	180
	12/17/02	2.0	0.53	2 U	0.5 U	0.5 U	1.2	0.50 U	0.5 U	250	0.5 U	2 U	150	0.5 U	100	0.5 U	0.5 U	90
	12/17/02 (DUP)	1.9	0.6	2 U	0.5 U	0.5 U	0.21 U	0.50 U	0.5 U	270	0.5 U	2 U	180	0.5 U	120	0.5 U	0.5 U	91
	06/10/03	0.40 J	0.98 J	0.29 U	0.23 U	0.25 U	0.11 U	2.2	0.2 U	350	0.26 U	0.39 U	390	0.23 U	140	0.8 B	0.44 U	78
P-1	09/24/04	0.28 J	0.12 U	0.15 U	0.12 U	0.13 U	NA	0.23 U	0.096 U	1.2	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U

Notes:
All results in µg/L.

1,1,1-TCA = 1,1,1-trichloroethane.

Table 6
Concentration of VOCs in Groundwater
Deep Groundwater Well Installation and Benzene Delineation Report
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane[1]	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5.06E+06	2.25E+06	5.7E+07	8.5E+06	2.8E+06	1.75E+06	4.5E+06	7.9E+06	4E+06	1.69E+05	1.3E+07	2.0E+05	1.33E+06	1.1.E+06	5.26.E+05	1.71E+05	2.76E+06
	2019 Revised Cleanup Levels:	7.7	7.0	80	0.48	1.2	0.80	-	1.4	16	700	5.0	5.0	200	0.54	640	1,600	0.50

1995 analyses performed using EPA Method 8240A.
Analyses from 1996 to 2014 performed using EPA Method 8260A.
Starting in March 2015, the laboratory was switched to Accutest and VOCs were analyzed by EPA Method 8260B.
Only indicator hazardous substances (IHSs)shown.
Detections shown in **bold**.
Shaded results above their respective cleanup level.
J / j = the associated numerical value is an estimated quantity based on data review or laboratory estimate above the MDL but below the MRL.
J- = Estimated detection with low bias
Total Xylenes calculated as sum of o-Xylene and m,p-Xylene detections. In case of non-detects, highest non-detect result shown.
U = not detected above associated method reporting limit.
UJ = Compound was analyzed for, but not detected above the reporting limit. The reporting limit is an estimated value.

1,1-DCA = 1,1-dichlorethane.
1,1-DCE = 1,1-dichlorethene.
1,2,3-TCP = 1,2,3-trichloropropane.
1,2,4-TCB = 1,2,4-trichlorobenzene.
1,2,4-TMB = 1,2,4-trimethylbenzene.
1,2-DCA = 1,2-dichlorethane.
1,3,5-TMB = 1,3,5-trimethylbenzene.
cis-1,2-DCE = cis-1,2-dichloroethene.
PCE = tetrachloroethene.
TCE = trichloroethene.

FIGURES

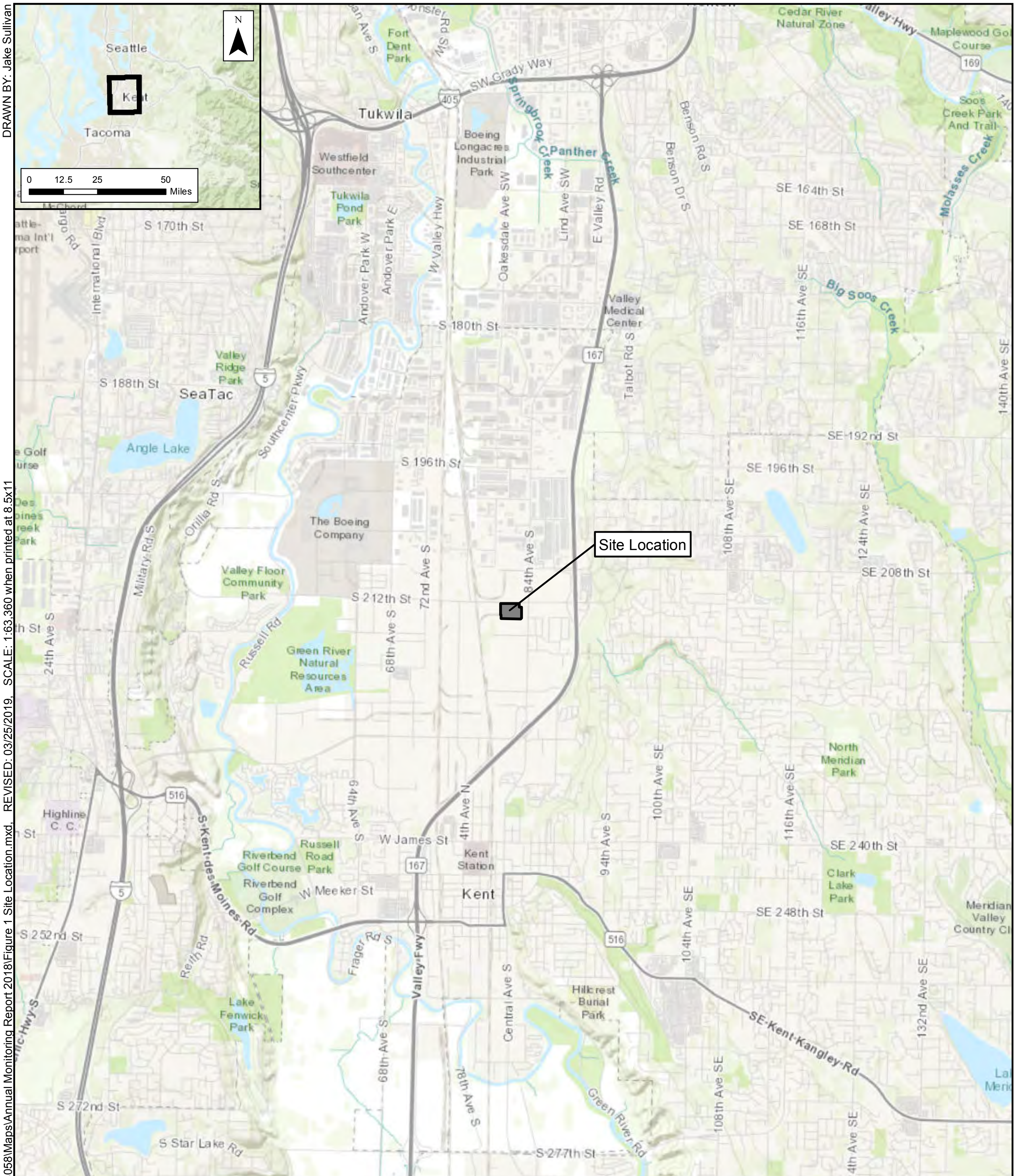


Figure 1
Site Location
Univar Solutions USA, Inc. 8201 S 212th St Kent, Washington

Environmental Resources Management
www.erm.com
ERM

DRAWN BY: Jake Sullivan
M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2018\Figure 1 Site Location.mxd, REVISED: 03/25/2019, SCALE: 1:63,360 when printed at 8.5x11

Source: Esri - World Topoographic Map; NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

- Shallow Monitoring Well
- Deep Monitoring Well
- Cross Section Line
- Approx. Former UST Location
- Site Boundary

N

0 200 400
Feet

Figure 2
Site Plan Map
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 2 Site Plan Map With Well Locations.mxd REVISED: 03/19/2020 SCALE: 1:2,400 when printed at 11x17 DRAWN BY: Kara Batdorff

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

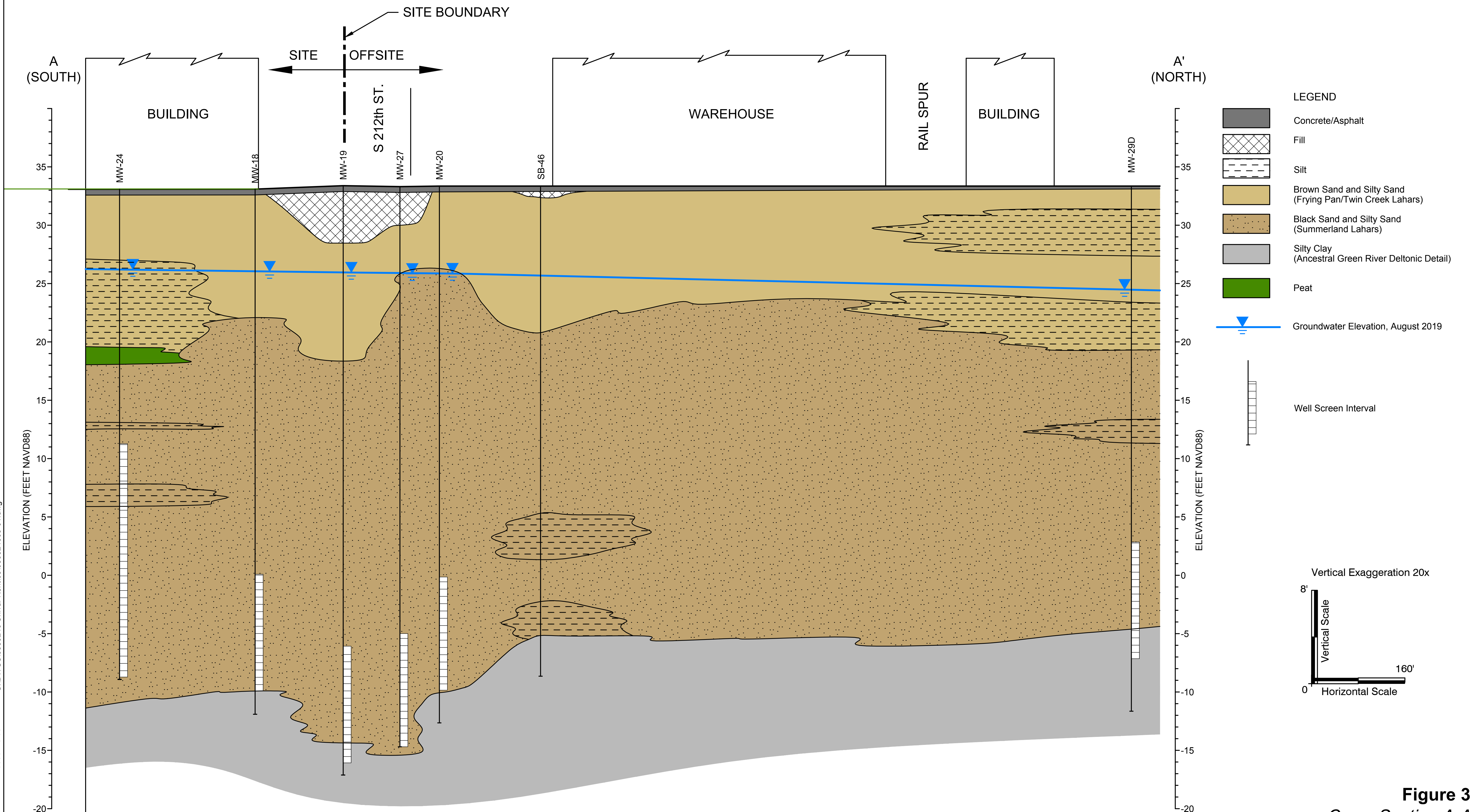


Figure 3

Cross Section A-A

Univar Solutions USA, Inc.

8201 S 212th Street

Kent, Washington

Environmental Resources Management
www.erm.com
ERM

G:\DWGS\0533246 Univar Kent\03\0533246 03-01.dwg
0533246.03
3/31/2020
J. Estrada

DRAWN BY: Kelly Lyons

SCALE: 1:960 when printed at 11x17 REVISED: 03/30/2020

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 4 Shallow GW Contour Map 201906.mxd

Legend

- Shallow Monitoring Well
- Abandoned Monitoring Well
- Flow Direction
- Groundwater Contour (0.20 ft)
- Site Boundary

Notes:
Groundwater elevations measured May 30, 2019.
All groundwater elevations given in North American Vertical Datum of 1988 (NAVD88) feet.

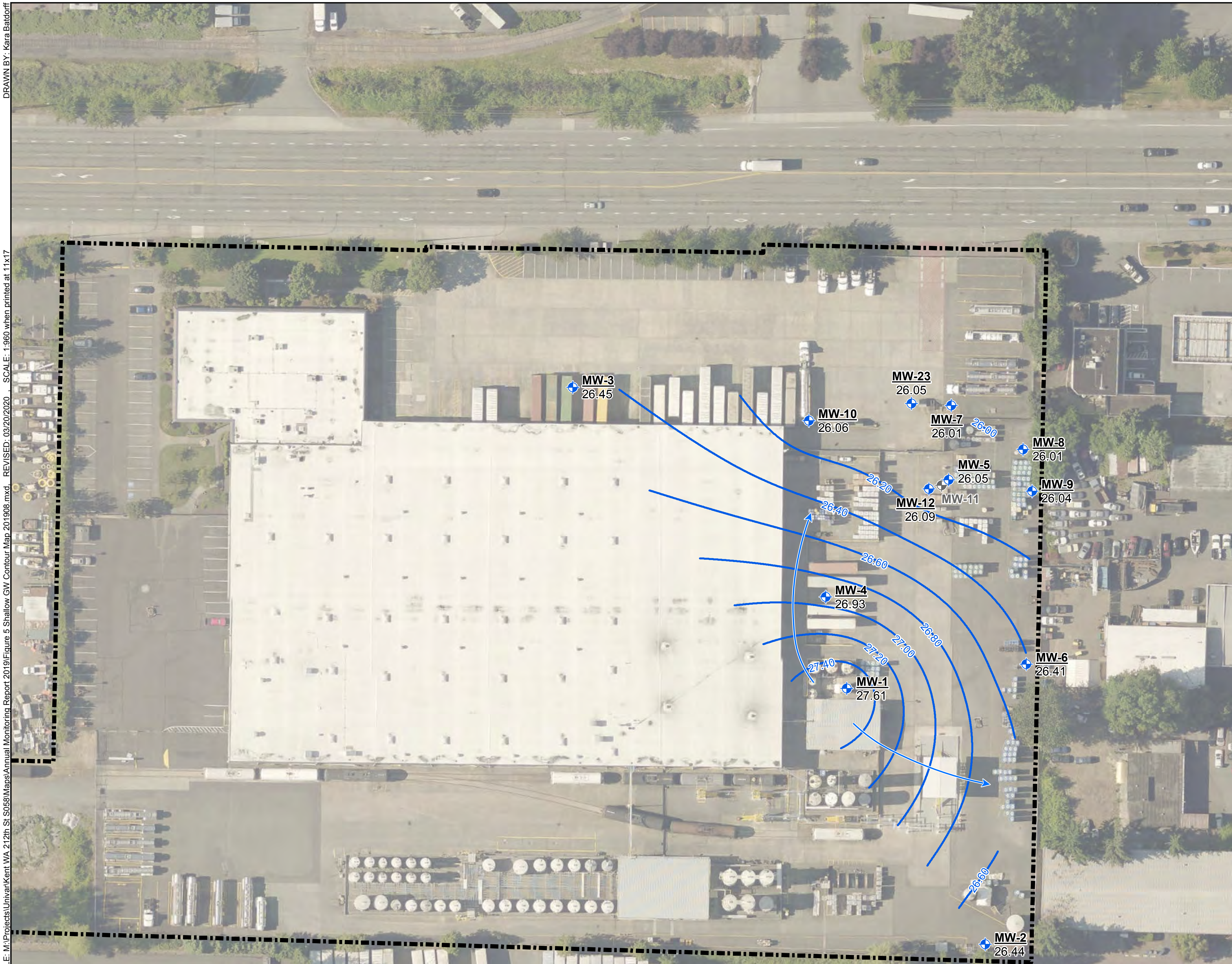
N

0 80 160
Feet

Figure 4
Shallow Groundwater Elevation Contours
May 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet



Legend

- Shallow Monitoring Well
- Abandoned Monitoring Well
- Flow Direction
- Groundwater Contour (0.20 ft)
- Site Boundary

Notes:
Groundwater elevations measured August 29, 2019.
All groundwater elevations given in North American Vertical Datum of 1988 (NAVD88) feet.

N

0 80 160
Feet

Figure 5
Shallow Groundwater Elevation Contours
August 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 5 Shallow GW Contour Map 201908.mxd. REVISED: 03/20/2020 SCALE: 1:960 when printed at 11x17 DRAWN BY: Kara Batdorff

Legend

- Deep Monitoring Well
- Flow Direction
- Groundwater Contour (0.10 ft)
- Site Boundary

Notes:
* Data considered anomalous. Not used for contouring.
Groundwater elevations measured May 30, 2019.
All groundwater elevations given in North American Vertical Datum of 1988 (NAVD88) feet.

N

0 80 160
Feet

Figure 6
Deep Groundwater Elevation Contours
May 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 6 Deep GW Contour 201906.mxd REVISED: 03/09/2020 SCALE: 1:960 when printed at 11x17 DRAWN BY: Kara Batdorff

Legend

- Deep Monitoring Well
- Groundwater Contour (0.1 ft)
- Flow Direction
- Site Boundary

Notes:
Groundwater elevations measured August 29, 2019 unless otherwise noted.
*Groundwater elevation measured on August 30, 2019.
All groundwater elevations given in North American Vertical Datum 1988.

N

0 200 400
Feet

Figure 7
Deep Groundwater Elevation Contours
August 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 7 Deep GW Contour 201908.mxd. REVISED: 03/19/2020 SCALE: 1:2,400 when printed at 11x17 DRAWN BY: Kara Batdorff

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

DRAWN BY: Kelly Lyons

SCALE: 1:960 when printed at 11x17 , REVISED: 03/30/2020 , Figure 8 Shallow VOCs 201906.mxd

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 8 Shallow VOCs 201906.mxd

Legend

- Shallow Monitoring Well
- 1,1-Dichloroethane Isoconcentration Contour
- Benzene Isoconcentration Contour
- cDCE Isoconcentration Contour
- PCE Isoconcentration Contour
- TCE Isoconcentration Contour
- VC Isoconcentration Contour
- Site Boundary

Notes:
Isoconcentration lines dashed where inferred.
Results in µg/L (micrograms per liter).
Samples collected May 30 through June 3, 2019.
Only chemicals detected above CUL levels are shown.
Isoconcentration lines developed using all data included in Table 5 of the 2018 Annual Groundwater Monitoring Report.
CUL: Cleanup Level
VOC: Volatile Organic Compound
1,1-DCA: 1,1-Dichloroethane
cDCE: cis-1,2-Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
VC: Vinyl chloride
Cleanup Levels:
1,1-DCA: 7.7 µg/L
Benzene: 0.8 µg/L
cDCE: 16 µg/L
TCE: 0.54 µg/L
PCE: 5.0 µg/L
VC: 0.5 µg/L

Figure 8
VOC Concentrations in Shallow Groundwater
June 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

DRAWN BY: Kelly Lyons

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 9 Shallow VOCs 201908.mxd REVISED: 03/20/2020 SCALE: 1:960 when printed at 11x17

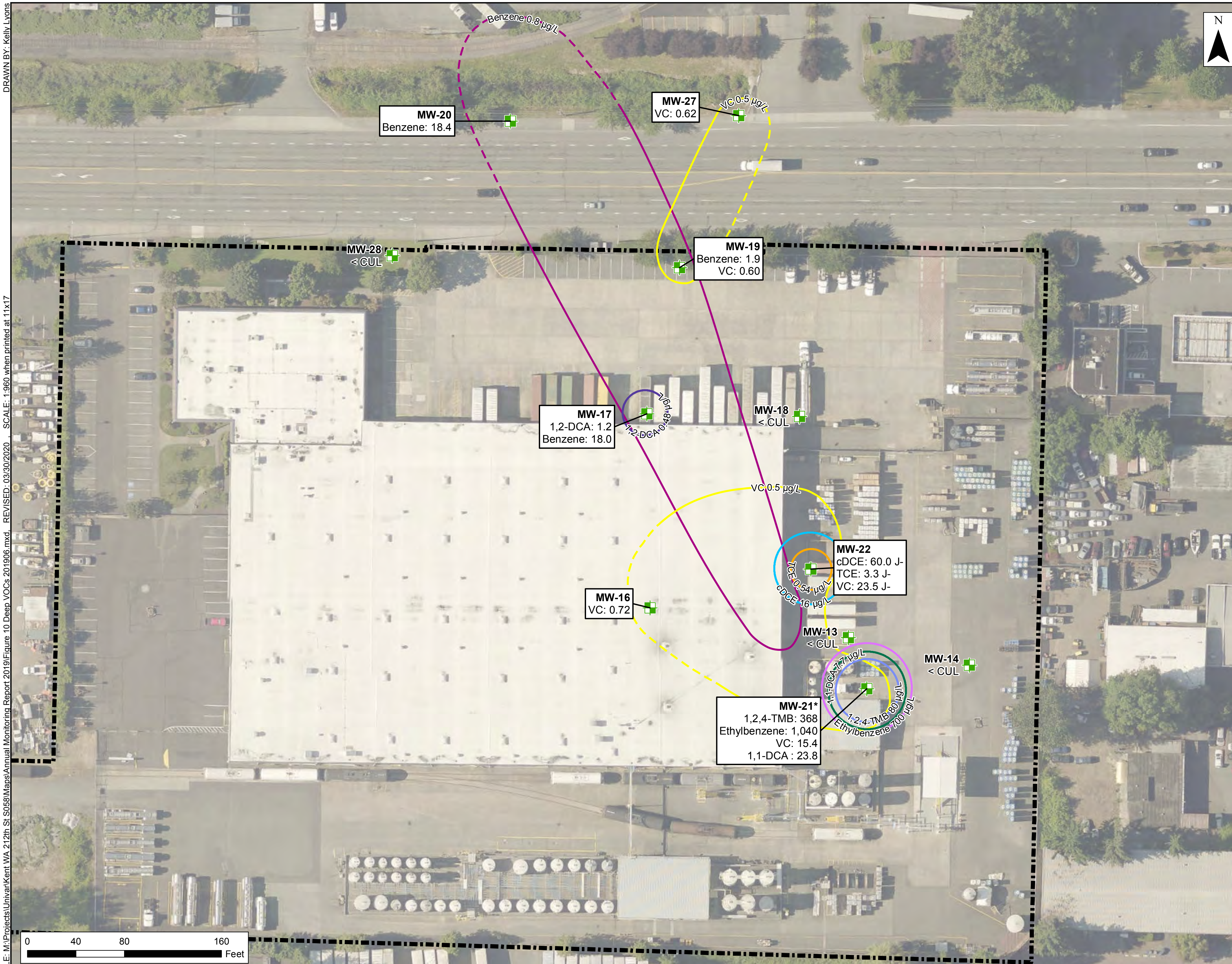
Legend

- Shallow Monitoring Well
- 1,1-Dichloroethane Isoconcentration Contour
- Benzene Isoconcentration Contour
- cDCE Isoconcentration Contour
- PCE Isoconcentration Contour
- TCE Isoconcentration Contour
- VC Isoconcentration Contour
- Site Boundary

Notes:
Isoconcentration lines dashed where inferred.
Results in µg/L (micrograms per liter).
Samples collected August 26-29, 2019.
Only chemicals detected above CUL levels are shown.
Isoconcentration lines developed using all data included in Table 5 of the 2018 Annual Groundwater Monitoring Report.
CUL: Cleanup Level
VOC: Volatile Organic Compound
1,1-DCA: 1,1-Dichloroethane
cDCE: cis-1,2-Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
VC: Vinyl chloride
Cleanup Levels:
1,1-DCA: 7.7 µg/L
Benzene: 0.8 µg/L
cDCE: 16 µg/L
~~Ethylbenzene: 700 µg/L~~
TCE: 0.54 µg/L
PCE: 5.0 µg/L

Figure 9
VOC Concentrations in Shallow Groundwater
August 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM



DRAWN BY: Kelly Lyons

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 10 Deep VOCs 201906.mxd REVISED: 03/30/2020 SCALE: 1:960 when printed at 11x17

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

Legend

- Deep Monitoring Well
- 1,2,4-Trimethylbenzene Isoconcentration Contour
- 1,2-DCA Isoconcentration Contour
- Benzene Isoconcentration Contour
- Ethylbenzene Isoconcentration Contour
- TCE Isoconcentration Contour
- VC Isoconcentration Contour
- 1,1-DCA Isoconcentration Contour
- cDCE Isoconcentration Contour
- Site Boundary

Notes:
*MW-21 has historically had benzene detections, and the MDL for benzene is above the isoconcentration line value.
J- = Estimated detection with low bias.
Isoconcentration lines dashed where inferred.
Results in µg/L (micrograms per liter).
Samples collected May 30 through June 3, 2019.
Only chemicals detected above CUL levels are shown.
Isoconcentration lines developed using all data included in Table 5 of the 2018 Annual Groundwater Monitoring Report.

CUL: Cleanup Level	Cleanup Levels:
VOC: Volatile Organic Compound	1,1-DCA: 7.7 µg/L
1,1-DCA: 1,1-Dichloroethane	1,2-DCA: 0.48 µg/L
1,2-DCA: 1,2-Dichloroethane	1,2,4-TMB: 80 µg/L
1,2,4-TMB:	Benzene: 0.8 µg/L
1,2,4-Trimethylbenzene	cDCE: 16 µg/L
cDCE: cis-1,2-Dichloroethene	Ethylbenzene: 700 µg/L
TCE: Trichloroethene	TCE: 0.54 µg/L
VC: Vinyl chloride	VC: 0.5 µg/L

Figure 10
VOC Concentrations in Deep Groundwater
June 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

FILE: M:\Projects\Univar\Kent WA 212th St S058\Maps\Annual Monitoring Report 2019\Figure 11 Deep VOCs 201908.mxd, REVISED: 03/30/2020, SCALE: 1:2,400 when printed at 11x17, DRAWN BY: GIS

Legend

- Deep Monitoring Well
- 1,2,4-Trimethylbenzene Isoconcentration Contour
- Benzene Isoconcentration Contour
- cDCE Isoconcentration Contour
- Ethylbenzene Isoconcentration Contour
- VC Isoconcentration Contour
- Site Boundary

Notes:
J- = Estimated detection with low bias.
Isoconcentration lines dashed where inferred.
Results in µg/L (micrograms per liter).
Samples collected August 26-30, 2019.
Only chemicals detected above CUL levels are shown.
Isoconcentration lines developed using all data included in Table 5 of the 2018 Annual Groundwater Monitoring Report.
CUL: Cleanup Level
VOC: Volatile Organic Compound
1,2,4-TMB: 1,2,4-Trimethylbenzene
cDCE: cis-1,2-Dichloroethene
VC: Vinyl chloride
Cleanup Levels:
1,2,4-TMB: 80 µg/L
Benzene: 0.8 µg/L
cDCE: 16 µg/L
Ethylbenzene: 700 µg/L
VC: 0.5 µg/L

Figure 11
VOC Concentrations in Deep Groundwater
August 2019
Univar Solutions USA, Inc.
8201 S 212th St
Kent, Washington

Environmental Resources Management
www.erm.com
ERM

Source: King County aerial imagery, flown 2017, 3 inches per pixel; NAD 1983 StatePlane Washington North FIPS 4601 Feet

APPENDIX A WELL CONSTRUCTION LOG

ERM-West, Inc.
1001 S.W. 5th Avenue, Suite 1010
Portland, Oregon 97204
Telephone: 503-488-5282

MW-29D

CLIENT Univar
PROJECT NAME Univar Kent 212th
PROJECT NUMBER 0487213
PROJECT LOCATION 8220 S 212th St Kent, WA
DATE STARTED 8/7/19 **COMPLETED** 8/7/19
GROUND ELEVATION 30.416 feet **HOLE SIZE** 8 inches
CONTRACTOR Cascade
GROUND WATER LEVELS:
EQUIPMENT Sonic
AT TIME OF DRILLING 10.00 ft / Elev 20.42 ft
LOGGED BY M. Crandell **CHECKED BY** D. Edwards
AT END OF DRILLING ---
NOTES Vac cleared to 5 feet bgs. Ecology Well ID: BLZ 106
AFTER DRILLING ---

DEPTH (ft)	SAMPLE IDENTIFICATION	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0				0.3 — 3 inch asphalt slab. — 30.2		
		SM		Dark brown silty fine-medium SAND with sub-rounded fine gravel. Loose, slightly moist.	15.9, 2.7	Flush-Mount Well Box with Cement Seal
				3.0 — 27.4		
5		ML		Very dark gray SILT, trace fine sand and angular fine gravel. Loose, moist.	4.5, 5, 2.4	
				6.0 — 24.4		
		SM		Gray silty fine SAND, trace fine angular to sub-rounded gravel. Slightly stiff, moist.	2.1	
				9.5 — 20.9		
10		SP		9.8 — Gray fine SAND. Loose, very moist. — 20.7		
		SM		Gray silty fine SAND, trace fine angular to sub-rounded gravel. Slightly stiff, moist. Wet at 10 feet bgs.	2.6	Bentonite Cement Grout Seal
				12.0 — 18.4		
		ML		Very dark gray sandy SILT. Sand is fine. Stiff, slightly wet.	2.7	
				14.5 — 15.9		
15		SM		Very dark gray silty fine SAND. Slightly stiff, wet.	2.7, 1.9, 3	2 inch Schedule 40 PVC Black Well Casing
20				21.0 — 9.4		
		ML		Dark bluish gray SILT with organic matter (plant roots), natural organic decay odor. Loose, wet.		
				22.0 — 8.4		
		SP		Dark gray medium SAND. Loose, wet.	2.5	
25						

(Continued Next Page)

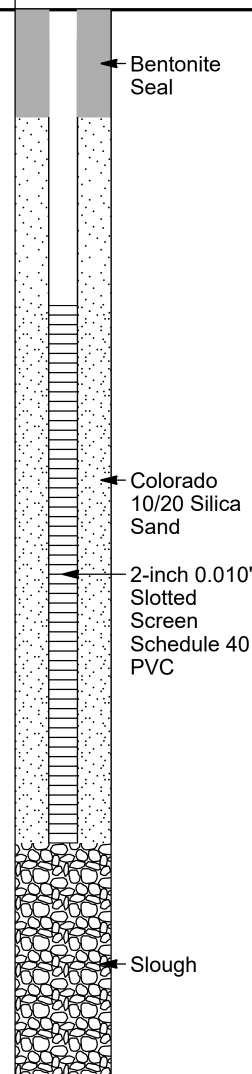
ERM-West, Inc.
1001 S.W. 5th Avenue, Suite 1010
Portland, Oregon 97204
Telephone: 503-488-5282

MW-29D

CLIENT Univar
PROJECT NAME Univar Kent 212th
PROJECT NUMBER 0487213
PROJECT LOCATION 8220 S 212th St Kent, WA
DATE STARTED 8/7/19 **COMPLETED** 8/7/19
GROUND ELEVATION 30.416 feet **HOLE SIZE** 8 inches
CONTRACTOR Cascade
GROUND WATER LEVELS:
EQUIPMENT Sonic
AT TIME OF DRILLING 10.00 ft / Elev 20.42 ft
LOGGED BY M. Crandell **CHECKED BY** D. Edwards
AT END OF DRILLING ---
NOTES Vac cleared to 5 feet bgs. Ecology Well ID: BLZ 106
AFTER DRILLING ---

DEPTH (ft)	SAMPLE IDENTIFICATION	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
25		SP		Dark gray medium SAND. Loose, wet. *(continued)* Sand is medium to coarse.	2.9
					2.9
30					3.3
					3.2
35					3
					2.2
40				40.0 / -9.6	
		ML		Medium brown SILT with clay, organic matter, and natural organic decay odor. Wet, stiff.	2.5
				43.0 / -12.6	10.1
		SM		43.5 / -13.1 Medium gray silty fine SAND. Wet, slightly stiff.	
45		SP		Medium gray fine SAND with silt. Wet, slightly stiff. 45.0 / -14.6	13.5

Bottom of borehole at 45.0 feet.



Please print, sign and return by mail to Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. RE18007

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission *(select one)*

[x] Construction

[ ] Decommission *ORIGINAL INSTALLATION Notice of Intent Number* ______

Consulting Firm: ERM

Unique Ecology Well ID Tag No.: BLZ 106

Type of Well *(select one)*

[x] Resource Protection

[ ] Geotech Soil Boring

Property Owner: Scott Seefeldt

Site Address: 8220 South 212th Street

City: Kent   County: King

Location: ne 1/4-1/4 ne 1/4 Sec 12 Twn 22n R 4e   Select One [ ] EWM [ ] WWM

Lat/Long (s, t, r still REQUIRED)   Lat Deg ______ Lat Min/Sec ______   Long Deg ______ Long Min/Sec ______

Tax Parcel No. ______

Cased or Uncased Diameter: 6   Static Level: 12

Work/Decommission Start Date: Aug 07 2019.

Work/Decommission Completed Date: Aug 07 2019

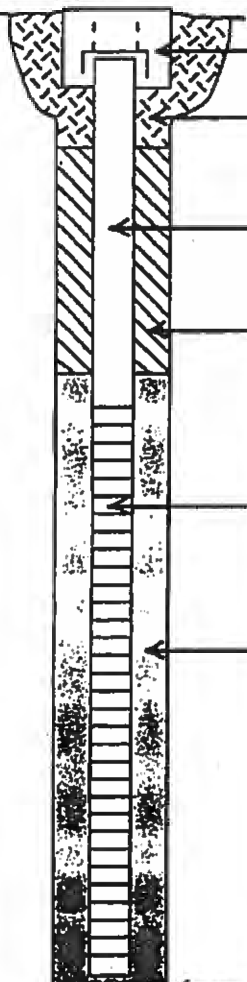
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

[x] Driller [ ] Engineer [ ] Trainee Name (Print): Daniel Rider

Driller/Engineer/Trainee Signature: [signature]

Driller or Trainee License No. 3223

If trainee, licensed driller's Signature and License No. ______

Construction/Design	Well Data	Formation Description
	MONUMENT TYPE: Flush CONCRETE SURFACE SEAL 0-3 ft. PVC BLANK 2 "x 0-30 ' BACKFILL 3-27 ft. TYPE: Bentonite Chips PVC SCREEN 2 "x 30-40 SLOT SIZE: .010 TYPE: PVC GRAVEL PACK 27-41 ft. MATERIAL: Sand 12x20 Bentonite chips 41-45 WELL DEPTH 45 ' "	0 - 45 ft. Sand & Gravel - ft. - ft. - ft. - ft. **REMARKS** Piezometer MW-29D 110.19.1093

APPENDIX B FIELD FORMS

ERM - Purge Log

Project Name:
Project Number:

Date: 05/31/19
Set up time: 1259
Weather: Sunny
Field Staff: AC

Well # MW-1

Sample ID: MW-1-053119

Location: Near Tank Farm
Construction: 2" PVC
Groundwater Zone: Shallow

Construction Depth: 19
Screened Interval: 4-19
Pump Intake Depth: 11'

Purge Start Time: 1306
Discharge Rate: 200
Purge End Time: 1329

Depth to Water: 4.44
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1306		4.44	–	–	–	–	–	–	–	clear
1316		4.82	16.14	6.76	1.206	0.33	-47.5	0.60	4.08	no odor
1319		5.00	16.44	6.76	1.206	0.04	-47.3	0.60	2.62	
1322		5.09	16.59	6.77	1.206	0.08	-47.2	0.60	2.79	
1325		5.15	16.69	6.77	1.208	0.06	-47.0	0.60	3.97	
1327		5.15	16.57	6.78	1.211	0.06	-46.8	0.60	3.67	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) :

ERM - Purge Log	
Project Name:	
Project Number:	

Date:	05/31/19
Set up time:	1122
Weather:	cloudy
Field Staff:	AL

Well # MW-4

Sample ID: MW-4-053119

Location:	~~Near~~ West of Warehouse	Construction Depth:	14.5'
Construction:	2" PVC	Screened Interval:	4.5-14.5'
Groundwater Zone:	shallow	Pump Intake Depth:	10'

Purge Start Time:	1127	Depth to Water:	4.91
Discharge Rate:	200	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1127		4.91	–	–	–	–	–	–	–	
1137		5.19	15.05	6.79	0.956	0.15	-47.7	0.47	2.65	
1140		5.22	15.33	6.79	0.953	0.15	-47.7	0.47	2.65	
1143		5.29	15.49	6.80	0.958	0.21	-47.6	0.48	2.28	
1146		5.35	15.75	6.90	0.957	0.14	-47.6	0.48	1.92	
1149		5.42	15.81	6.80	0.957	0.11	-47.5	0.47	2.83	
1151		5.43	15.79	6.80	0.958	0.11	-47.5	0.48		

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

MS/MSD

Sampler Signature(s) :

ERM - Purge Log

Project Name:
Project Number:

Date:
Set up time:
Weather:
Field Staff:

Well # 5

Sample ID: MW-5-053019

Location:	NW corner	Construction Depth:	14'
Construction:	2" PVC	Screened Interval:	4-14'
Groundwater Zone:	shallow	Pump Intake Depth:	10'

Purge Start Time:	1548	Depth to Water:	5.70
Discharge Rate:	200	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1548		5.70	–	–	–	–	–	–	–	
1558		5.90	17.44	6.14	0.201	0.52	-42.5	0.10	10.0	
1603		5.92	16.89	6.12	0.200	0.31	-42.1	0.09	5.87	
1606		5.92	16.95	6.12	0.199	0.27	-41.6	0.09	4.74	
1609		5.92	16.87	6.12	0.200	0.13	-41.4	0.09	4.84	
1611		5.94	16.95	6.12	0.200	0.13	-41.3	0.09	3.90	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

MW 1613 PID - 0.00 ppm

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 19CB
Project Number: 0487093

Date: 05/31/19
Set up time: 0715
Weather: cloudy
Field Staff: AL

Well # MW-3

Sample ID: MW-3-053119

Location: near office
Construction: 2" PVC
Groundwater Zone: shallow

Construction Depth: 19
Screened Interval: 4-19'
Pump Intake Depth: 12.5'

Purge Start Time: 0720
Discharge Rate:
Purge End Time: 0749

Depth to Water: 6.11
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0728		6.11	–	–	–	–	–	–	–	slight
0735		6.13	13.99	6.75	0.543	0.28	-48.2	0.26	0.79	yellow tint
0739		6.14	14.07	6.75	0.549	0.22	-48.2	0.27	1.54	no odor
0741		6.14	14.13	6.76	0.555	0.22	-48.4	0.27	1.02	
0744		6.14	14.09	6.76	0.558	0.23	-48.5	0.27	0.70	
0747		6.14	13.95	6.76	0.563	0.16	-48.6	0.27	1.58	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

DUP-1-053119 , PID - 0.00 ppm

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487043

Date: 05/30/19
Set up time: 1452
Weather: Sunny
Field Staff: AL, MC

Well # MW-08

Sample ID: MW-8-053019

Location:	212th Street	Construction Depth:	14'
Construction:	2" PVC	Screened Interval:	4-14
Groundwater Zone:	Shallow	Pump Intake Depth:	11'

Purge Start Time:	1500	Depth to Water:	6.64
Discharge Rate:	?	Height of Water Column:	
Purge End Time:	1527	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1500		6.64	—	—	—	—	—	—	—	
1512		7.59	15.05	6.09	0.389	1.55	-42.9	0.19	4.43	
1517		7.70	15.65	6.11	0.403	1.14	-42.5	0.19	2.37	
1520		7.70	15.44	6.11	0.409	0.99	-42.4	0.20	2.39	
1523		7.70	15.97	6.10	0.413	0.58	-42.4	0.20	1.31	
1526		7.70	15.75	6.10	0.411	0.51	-42.3	0.20	2.05	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

MW-8- 1528 PID- 0.00 ppm

Sampler Signature(s) :

[signature]

ERM - Purge Log

Project Name:
Project Number:

Date: 05/31/19
Set up time: 1435
Weather: Sunny
Field Staff:

Well # MW-9-

Sample ID: MW-9-053119

Location:	NW corner near Fence	Construction Depth:	15'
Construction:	2" PVC	Screened Interval:	5-15'
Groundwater Zone:	Shallow	Pump Intake Depth:	10'

Purge Start Time:	1446	Depth to Water:	6.71
Discharge Rate:		Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1446		6.71	—	—	—	—	—	—	—	orange
1456		7.00	15.62	6.14	0.320	0.13	-45.3	0.15	70.4	floating
1459		7.00	15.93	6.16	0.324	0.07	-45.3	0.16	61.8	particles
1502		7.00	15.64	6.24	0.324	0.07	-45.6	0.16	20.5	
1505		7.00	15.67	6.26	0.340	0.04	-45.7	0.17	12.8	
1508		7.00	15.92	6.27	0.351	0.04	-45.9	0.17	39.9	
1510		7.00	15.64	6.79	0.357	0.04	-46.0	0.17	24.7	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) :

ERM - Purge Log

Project Name: ⊙ Kent 212th
Project Number: 0487093

Date: 05/31/
Set up time: 0936
Weather: cloudy
Field Staff:

Well # MW-7

Sample ID: MW-7-053119

Location: NW corner of site
Construction: 2" PVC
Groundwater Zone: shallow

Construction Depth: 14.5'
Screened Interval: 4.5-14.5'
Pump Intake Depth: 11

Purge Start Time: 0945
Discharge Rate: 200
Purge End Time:

Depth to Water: 6.10
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0945		6.10	–	–	–	–	–	–	–	clear
0955		6.20	14.42	6.29	0.221	0.72	-45.3	0.11	3.35	odorless
1000		6.20	14.30	6.29	0.221	0.42	-45.3	0.11	1.97	
1003		6.20	14.28	6.29	0.225	0.31	-45.3	0.11	1.48	
1006		6.20	14.22	6.28	0.232	0.23	-45.3	0.11	1.28	
1009		6.20	14.32	6.29	0.288	0.14	-45.2	0.11	1.31	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID-0.0 ppm

Sampler Signature(s) :

ERM - Purge Log

Project Name:
Project Number:

Date:
Set up time: 0915
Weather:
Field Staff:

Well # MW-12

Sample ID: MW-12-080319

Location:	near warehouse	Construction Depth:	~ 20'
Construction:	2" PVC	Screened Interval:	5-20
Groundwater Zone:	shallow	Pump Intake Depth:	12'

Purge Start Time:	0925	Depth to Water:	5.91
Discharge Rate:	200	Height of Water Column:	
Purge End Time:		Volume of one casing:	

[illegible] 0958 1002 intake 10.5'

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0925		5.91	-	-	-	-	-	-	-	clear
0934		6.10	14.88	6.23	0.274	0.80	-41.0	0.13	10.30	no odor
0937		6.10	15.08	6.24	0.271	0.49	-44.0	0.13	6.71	
0940		6.10	15.07	6.24	0.271	0.40	-44.0	0.13	5.07	
0943		6.10	15.16	6.24	0.270	0.34	-44.0	0.13	5.46	
0947		6.10	15.05	6.24	0.269	0.23	-44.0	0.13	4.50	
MW-6 1002		5.22	-	-	-	-	-	-	-	
1012		5.46	14.58	6.25	0.542	0.52	-46.9	0.26	4.61	
1015		5.54	14.76	6.26	0.540	0.41	-47.1	0.26	-	
1018		5.54	15.00	6.27	0.540	0.27	-47.3	0.26	6.94	
1021		5.54	15.16	6.27	0.541	0.25	-47.4	0.26	6.03	
1024		5.54	15.34	6.27	0.541	0.28	-47.5	0.26	6.61	
1027		5.54	15.36	6.27	0.542	0.23	-47.5	0.26	6.12	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

DUP-12

Sampler Signature(s) :

ERM - Purge Log

Project Name: ~~[illegible]~~ Kent 212th
Project Number: 0487093

Date: 05/31/19
Set up time: 1341
Weather: Sunny
Field Staff: AL

Well # MW-13

Sample ID: MW-13-053119

Location: near Farm Tank
Construction: 2" PVC
Groundwater Zone: Deep

Construction Depth: 44'
Screened Interval: 39-44'
Pump Intake Depth: 41'

Purge Start Time: 1351
Discharge Rate: 200
Purge End Time: 1420

Depth to Water: 5.78
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1351		5.78	–	–	–	–	–	–	–	clear
1401		6.00	16.02	6.28	0.744	156	-45.7	0.37	3.67	slight
1406		6.00	16.95	6.27	0.741	~~[illegible]~~ 1.13	-46.7	0.36	5.51	smell
1409		6.00	17.12	6.27	0.741	0.52	-46.9	0.36	5.14	
1412		6.00	17.06	6.28	0.739	0.55	-46.9	0.36	7.75	
1415		6.00	17.06	6.28	0.737	0.54	-46.9	0.36	5.82	
1417		6.00	16.94	6.27	0.736	0.54	-46.9	0.36	9.11	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

No PID

Sampler Signature(s) :

[illegible signature]

ERM - Purge Log

Project Name:
Project Number:

Date:	06/03/19
Set up time:	1035
Weather:	cloudy
Field Staff:	AL

Well # MW-14

Sample ID: MW-14-060319

Location:		Construction Depth:	~~34~~ 32'
Construction:	2" PVC / near curb stratus	Screened Interval:	~~24-34~~ 22-32'
Groundwater Zone:	Deep	Pump Intake Depth:	30'

Purge Start Time:	1053	Depth to Water:	5.58
Discharge Rate:	200	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1053		5.58	–	–	–	–	–	–	–	clear
1103		5.58	15.38	6.34	0.568	0.53	-46.9	0.28	4.82	no odor
1106		5.60	15.19	6.35	0.573	0.21	-47.4	0.28	4.77	
1109		5.60	15.04	6.35	0.574	0.16	-47.5	0.28	6.17	
1111		5.60	15.23	6.35	0.573	0.15	-47.6	0.28	5.11	
1114		5.60	15.23	6.35	0.573	0.15	-47.6	0.28		
			sampled 1116							
1129 MW-2		6.40	–	–	–	–	–	–	–	19 ft intake
1139		6.91	14.95	6.27	0.485	0.42	-47.8	0.24	6.01	
1142		7.07	14.99	6.28	0.482	0.26	-48.0	0.24	3.50	
1145		7.09	15.03	6.24	0.473	0.10	-48.1	0.23	3.38	
1148		7.22	14.98	6.30	0.468	0.14	-48.1	0.23	2.68	
1151		7.31	15.12	6.28	0.452	0.08	-48.1	0.22	2.97	
1154		7.35	15.14	6.28	0.446	0.13	-48.1	0.22	2.37	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) :

ERM - Purge Log

Project Name:
Project Number:

Date:
Set up time: 1220
Weather:
Field Staff:

Well # MW-16

Sample ID: MW-16-060319

Location: inside warehouse
Construction: 2" PVC
Groundwater Zone: Deep

Construction Depth: 47'
Screened Interval: 37-47'
Pump Intake Depth: 42.5'

Purge Start Time: 1233
Discharge Rate:
Purge End Time:

Depth to Water: 10
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1233		10.00	-	-	-	-	-	-	-	clear no
1243		10.02	13.86	6.19	0.798	0.71	-47.4	0.39	4.11	oder
1246		10.02	13.86	6.18	0.810	0.36	-48.0	0.40	3.70	
1249		10.02	13.81	6.22	0.814	0.19	-48.4	0.40	4.76	
1252		10.02	13.76	6.21	0.817	0.20	-48.5	0.40	5.87	
1255		10.02	13.77	6.21	0.817	0.18	-48.6	0.40	6.61	
		sample	1258							
1327	MW-2:	7.89	-	-	-	-	-	-	.	40 min tube
1337		8.00	15.12	6.43	0.874	0.20	-48.3	0.43	20.2	cloudy
1340		8.00	15.12	6.44	0.871	0.10	-48.3	0.43	10.60	slight yellow
1343		8.00	15.03	6.44	0.869	0.11	-48.4	0.43	10.50	tint
1346		8.00	15.24	6.44	0.864	0.09	-48.4	0.43	9.52	
1349		8.00	15.16	6.44	0.859	0.07	-48.4	0.42	20.0	
1352		8.00	15.21	6.45	0.855	0.08	-48.4	0.42	21.3	
1357		8.00	15.35	6.45	0.846	0.07	-48.4	0.42	23.0	
				125?						

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) :

ERM - Purge Log

Project Name: Univar Kent
Project Number:

Date: 5/30/19
Set up time: 1340
Weather: Sun, warm
Field Staff: KO

Well # MW-10

Sample ID: MW-10-053019

Location: N Parking Lot
Construction: 2" PVC
Groundwater Zone: Shallow

Construction Depth: 15'
Screened Interval: 5-15'
Pump Intake Depth: 10.5'

TD? 13.34'

Purge Start Time: 1344
Discharge Rate: 200
Purge End Time: 1415

Depth to Water: 5.95'
Height of Water Column: 9.05'
Volume of one casing: 1.6 gallons

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (ppt)	Turbity (ntu)	Color and Odor
1350	200	5.96	18.10	6.91	0.178	4.37	-39.7	0.08	12.7	Very slightly
1354		/	17.64	6.66	0.176	1.16	-42.9	0.08	12.3	yellow,
1400		5.96	17.79	6.65	0.175	1.15	-43.0	0.08	12.1	no odor
1404		/	17.78	6.65	0.175	1.14	-43.1	0.08	12.8	
1408		5.96	17.76	6.65	0.175	1.12	-43.3	0.08	13.0	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

1409

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) : KO

ERM - Purge Log

Project Name: Vacuum Kent
Project Number:

Date: 5/30/19
Set up time: 1250
Weather: Sun, warm
Field Staff: AC

Well # MW-18 ~~08~~

Sample ID: MW-18-053019

Location: N Parking lot
Construction: 2" PVC
Groundwater Zone: Deep

Construction Depth: 43.5'
Screened Interval: 34-43.5'
Pump Intake Depth: 39'

TD = 42.69'

Purge Start Time: 1256
Discharge Rate: 250
Purge End Time: 1326

Depth to Water: 5.80'
Height of Water Column: 37.7'
Volume of one casing: 6.5 gallon

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (ppt)	Turbity (ntu)	Color and Odor
1304	250	5.80	18.04	6.38	0.686	5.80	138.2	0.35	7.55	Clear
1308	|	–	18.13	6.40	0.730	5.55	-181.2	0.36	6.91	
1312	|	5.81	18.06	6.44	0.714	5.26	-178.1	0.35	6.52	
1316	|	–	18.04	6.46	0.711	5.01	-180.1	0.35	6.97	
1320	|	5.81	18.07	6.45	0.712	4.94	-182.1	0.35	7.12	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water
1321

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) : AC

ERM - Purge Log

Project Name: Univar Kent 212th
Project Number:

Date: 5/30/19
Set up time:
Weather:
Field Staff: MC

Well # MW-19

Sample ID: MW-19-053019

Location: N. Parking lot
Construction: 2" PVC
Groundwater Zone: Deep

Construction Depth: 49.4
Screened Interval: 39.4-49.4
Pump Intake Depth: 46.2

TD = 49.7'

Purge Start Time: 1215
Discharge Rate: 200
Purge End Time:

Depth to Water: 6.65'
Height of Water Column: 42.75'
Volume of one casing: 7.4 gallons

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (ppt)	Turbity (ntu)	Color and Odor
1220	200	6.65'	17.75	6.52	0.711	6.69	-156.7	0.35	13.6	Clear, slight
1224		/	17.01	6.51	0.718	6.19	-152.8	0.35	13.2	musty odor
1228		6.65	16.68	6.50	0.720	5.67	-155.6	0.35	12.8	
1232		/	18.54	6.50	0.718	5.37	-153.6	0.35	11.9	
1236		6.65	16.51	6.50	0.713	5.4	-154.0	0.35	12.5	
1240		/	16.49	6.50	0.717	4.92	-154.1	0.35	13.1	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

1241

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) : MC

ERM - Purge Log

Project Name:
Project Number:

Date:
~~Set up time:~~
Weather:
Field Staff:

Well # MW-20

Sample ID: MW-20-060319

Location: Off site - 212th St.
Construction: 2" PVC
Groundwater Zone: Deep

Construction Depth: 43'
Screened Interval: 33-43'
Pump Intake Depth: 38'

Purge Start Time:
Discharge Rate:
Purge End Time:

Depth to Water: 6.40
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1430		6.40	—	—	—	.	—	—	—	clear
1440		6.41	17.04	6.33	1.053	0.29	-46.7	0.52	12.9	no odor
1443		6.41	16.71	6.32	1.059	0.10	-47.2	0.53	9.18	
1446		6.41	16.64	6.31	1.051	0.10	-47.3	~~[illegible]~~	7.97	sal- 0.53
1449		6.43	16.77	6.31	1.062	0.10	-47.3	0.53	7.09	
1452		6.45	16.72	6.31	1.069	0.07	-47.2	0.53	10.50	
1455		6.45	16.58	6.31	1.069	0.05	-47.0	0.53	6.54	
1458		6.46	16.58	6.31	1.070	0.03	-46.9	0.53	8.69	
1515	MW-27	6.26	—	—	—	—	—	—	—	Clear
1525		6.26	19.06	6.31	0.394	0.542	-45.0	0.26	—	Slight
1528		6.26	19.13	6.31	0.548	0.24	-44.8	0.27	17.2	yellow
1531		6.26	18.17	6.31	0.555	0.16	-44.8	0.27	6.74	tint
1534		6.26	18.35	6.32	0.554	0.13	-44.8	0.27	5.58	
1537		6.26	18.44	6.32	0.559	0.09	-44.7	0.27	8.19	
1540		6.26	18.62	6.31	0.560	0.12	-44.5	0.27	9.03	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s):

ERM - Purge Log

Project Name:
Project Number:

Date: 05/21/19
Set up time: 1215
Weather: cloudy
Field Staff: AL

Well # MW-21

Sample ID:

Location:	Near Farmtank	Construction Depth:	44'
Construction:	2" PVC	Screened Interval:	34-44'
Groundwater Zone:	Deep	Pump Intake Depth:	39'

Purge Start Time:	1227	Depth to Water:	5.86
Discharge Rate:	200	Height of Water Column:	
Purge End Time:	1253	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1227		5.86	—	—	←	—	—	—	—	cloudy
1237		5.95	16.01	6.29	0.630	0.24	-47.4	0.31	15.2	slight
1240		5.95	16.06	6.29	0.628	0.26	-47.4	0.31	11.53	yellow
1243		5.95	15.90	6.28	0.628	0.18	-47.4	0.31	5.36	tint
1246		5.95	15.68	6.27	0.628	0.11	-47.4	0.31	4.82	little odor
1249		5.95	15.65	6.27	0.627	0.12	-47.21	0.31	5.96	
1251		5.95	15.53	6.27	0.628	0.14	-47.4	0.31	3.93	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water
FIELD OBSERVATIONS (Well condition, repairs needed)

NO PID

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487043

Date: 05/31/19
Set up time: 0810
Weather: cloudy 50°
Field Staff: AL

Well # MW-17

Sample ID: MW-17-053119

Location:	near office	Construction Depth:	43.8
Construction:	2" PVC	Screened Interval:	34-43
Groundwater Zone:	Deep	Pump Intake Depth:	39'

Purge Start Time:	0820	Depth to Water:	5.74
Discharge Rate:	200	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0820		5.74	–	-	—	–	–	–	–	cloudy
0830		5.74	13.39	6.37	0.991	0.35	-47.6	0.49	18.5	slight
0833		5.74	13.36	6.37	0.995	0.23	-47.8	0.50	18.3	odor
0836		5.74	13.37	6.37	1.005	0.23	-47.9	0.50	10.2	
0839		5.74	13.30	6.37	1.008	0.12	-48.0	0.50	11.54	
0841		5.74	13.29	6.38	1.009	0.07	-48.0	0.50	4.20	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.00 ppm

Sampler Signature(s) :

ERM - *Purge Log*

Project Name: Kent 212th
Project Number: 0487093

Date: 05/31/19
Set up time: 0853
Weather: cloudy
Field Staff: AL

Well # MW-23

Sample ID: MW-23-053119

Location:	NW corner of site	Construction Depth:	15'
Construction:	2" PVC	Screened Interval:	5-15'
Groundwater Zone:	shallow	Pump Intake Depth:	10

Purge Start Time:	0900	Depth to Water:	5.88
Discharge Rate:	200	Height of Water Column:	~~10~~
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0900		5.88	-	-	-	-	-	-	-	cloudy
0910		5.99	14.68	6.30	0.609	0.30	-46.0	0.30	22.0	slight
0913		5.90	14.65	6.37	0.604	0.19	-45.9	0.29	36.1	yellow tint
0916		5.90	14.63	6.36	0.602	0.19	-45.9	0.29	9.53	no odor
0919		5.90	14.66	6.37	0.601	0.15	-45.9	0.29	7.82	
0921		5.90	14.70	6.37	0.600	0.13	-45.8	0.29	7.84	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.00 ppm

Sampler Signature(s) :

ERM - Purge Log

Project Name:
Project Number:

Date: 05/31/19
Set up time: 1035
Weather: cloudy
Field Staff: AL

Well # MW-22

Sample ID: MW-22-053119

Location:	BW near warehouse	Construction Depth:	42.4'
Construction:	2" PVC	Screened Interval:	32.2-42.2'
Groundwater Zone:	Deep	Pump Intake Depth:	37'

Purge Start Time:	1645	Depth to Water:	6.28
Discharge Rate:	200	Height of Water Column:	
Purge End Time:		Volume of one casing:	

	Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1045	~~[illegible]~~ AL		6.29	-	-	-	-	-	-	-	clear
	1055		6.28	14.78	6.19	0.829	0.20	-40.9	0.41	1.05	no odor
	1058		6.28	14.79	6.19	0.837	0.15	-47.1	0.41	8.39	
	1101		6.28	14.95	6.20	0.842	0.18	-47.4	0.42	1.00	
	1104		6.28	14.82	6.20	0.842	0.13	-47.6	0.42	2.52	
	1107		6.28	14.83	6.20	0.840	0.08	-47.8	0.41	1.02	
	1109		6.28	14.80	6.20	0.840	0.06	-47.9	0.41	0.92	

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

Sampler Signature(s) :

AL

ERM - Purge Log

Project Name: Kurt 212
Project Number: 0487093

Date: 08/27/19
Set up time: 1400
Weather: Sunny 88°F
Field Staff: Ajisa Luna

Well # MW-01

Sample ID: MW-01-082719

Location:	N. of corrosive pump	Construction Depth:	19'
Construction:	2" PVC	Screened Interval:	4-19'
Groundwater Zone:	shallow	Pump Intake Depth:	13.5'

Purge Start Time:	~~1412~~ 1503	Depth to Water:	5.35
Discharge Rate:	120 ml/m	Height of Water Column:	13.65
Purge End Time:	1531	Volume of one casing:	

	Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1508	~~1417~~		5.42	25.14	6.36	1.142	1.00	-83.7	0.57	13.08	clear,
1513	~~1422~~		5.52	22.64	6.36	1.154	0.44	-108.9	0.57	11.04	no odor
1518	~~1427~~		5.55	23.83	6.35	1.142	0.39	-118.3	0.57	5.71	
1521	~~1430~~		5.57	24.31	6.35	1.143	0.39	-120.0	0.57	4.17	
1524	~~1433~~		5.60	24.24	6.35	1.144	0.34	-121.0	0.57	2.50	
1527	~~1436~~		5.62	24.29	6.35	1.143	0.35	-121.2	0.57	3.45	
1530			5.62	24.67	6.35	1.144	0.37	-121.9	0.57	2.12	

08/27/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID 0.5 ppm time 1535

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/29/19
Set up time: 1228
Weather: cloudy 78°F
Field Staff: Adam Lindell

Well # MW-2

Sample ID: MW-02-082919

Location:	South yard	Construction Depth:	19
Construction:	2" PVC	Screened Interval:	4-19
Groundwater Zone:	shallow	Pump Intake Depth:	15

Purge Start Time:	1234	Depth to Water:	7.35
Discharge Rate:	120mL/m	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1244		7.45	19.54	6.33	1.577	1.577	19.3	0.28	135	
1249		7.45	19.38	6.24	0.569	0.36	-47.3	0.28	12.8	
1254		7.48	19.31	6.20	0.572	0.43	-55.3	0.28	6.40	
1257		7.50	19.93	6.16	0.568	0.47	-61.1	0.28	4.19	
1200		7.54	20.11	6.13	0.570	0.45	-64.3	0.28	5.41	
1303		7.58	20.23	6.12	0.571	0.43	-65.6	0.28	3.36	
1306		7.62	20.26	6.11	0.573	0.40	-66.9	0.28	5.46	
1309		7.66	20.19	6.11	0.573	0.40	-67.8	0.28	3.07	

08/29/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 time 1314

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/26/2019
Set up time: 1115
Weather: Sunny, 70°F
Field Staff: Alison Lunde

Well # MW-3

Sample ID: MW-03-082619

Location:	S. Parking lot	Construction Depth:	19
Construction:	2" PVC	Screened Interval:	9-19
Groundwater Zone:	Shallow	Pump Intake Depth:	13.5

Purge Start Time:	1145	Depth to Water:	7.0
Discharge Rate:	120 ml/m	Height of Water Column:	12
Purge End Time:	1216	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1150		7.01	17.79	6.18	0.579	0.26	-103.7	0.28	–	clear
1155		7.01	17.86	6.19	0.577	0.21	-108.4	0.28	1.54	no odor
1200		7.01	17.94	6.20	0.595	0.21	-112.4	0.29	3.00	
1203		7.01	17.84	6.23	0.605	0.22	-115.0	0.30	12.33	
1206		7.01	17.90	6.24	0.608	0.23	-116.2	0.30	–	
1209		7.01	18.25	6.27	0.607	0.24	-118.0	0.30	22.4	
1212		7.01	18.29	6.30	0.610	0.27	-120.6	0.30	4.50	
1215		7.01	18.42	6.32	0.612	0.29	-122.3	0.30	2.60	

08/26/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm time 1218

Sampler Signature(s) :

ERM - Purge Log	
Project Name: Kent212	Date: 08/27/19
Project Number: 0487093	Set up time: 1301
	Weather: Sunny 73°F
	Field Staff: Alison Lunde

Well # MW-04 — **Sample ID:** MW-04-082719

Location:	W. yard door	Construction Depth:	14.5'
Construction:	2" PVC	Screened Interval:	4.5-14.5
Groundwater Zone:	shallow	Pump Intake Depth:	11'

Purge Start Time:	1312	Depth to Water:	5.89
Discharge Rate:	120 mL/m	Height of Water Column:	8.61
Purge End Time:	1340	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1317		6.10	19.89	6.36	1.081	0.39	-55.9	0.54	2.09	clear,
1322		6.13	20.19	6.34	1.080	0.36	-70.9	0.54	1.04	no odor
1327		6.15	20.52	6.31	1.076	0.39	-75.9	0.53	1.08	
1330		6.15	20.90	6.30	1.077	0.43	-77.4	0.53	2.43	
1333		6.16	20.79	6.28	1.082	0.41	-78.4	0.54	0.85	
1336		6.16	20.81	6.26	1.081	0.42	-78.9	0.54	\	
1339		6.16	21.02	6.28	1.078	0.41	-79.4	0.54	\	

08/27/19

1344

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water
FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 1.2 ppm

MS/MSD
time 1344

Sampler Signature(s) :

ERM - Purge Log	
Project Name: Kent 212	
Project Number: 0487093	

Date: 08/27/19
Set up time: 1035
Weather: Sunny, 70°F
Field Staff: Alison Linde

Well # MW-5

Sample ID: MW-05-082719

Location:	E. yard	Construction Depth:	14.5
Construction:	2" PVC	Screened Interval:	4.5-14.5
Groundwater Zone:	shallow	Pump Intake Depth:	12.5

Purge Start Time:	1049	Depth to Water:	6.57
Discharge Rate:	120 ml/m	Height of Water Column:	7.93
Purge End Time:	1117	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1054		6.65	17.56	5.98	0.223	0.68	100.5	0.11	28.7	clear, orange
1059		6.66	18.02	5.87	0.222	0.42	110.6	0.11	7.25	particles
1104		6.66	17.86	5.80	0.223	0.38	118.4	0.11	3.75	
1107		6.66	17.98	5.74	0.222	0.36	123.6	0.11	3.28	
1110		6.66	17.86	5.72	0.223	0.37	126.0	0.11	3.46	
1113		6.67	17.87	5.71	0.222	0.38	127.9	0.11	2.87	
1116		6.67	17.86	5.69	0.223	0.41	130.1	0.11	2.67	

08/27/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID 0.0 ppm time 1121

Sampler Signature(s) :

ERM - Purge Log

Project Name: KentLIZ
Project Number: 0487063

Date: 08/29/19
Set up time: [redacted] 1325
Weather: Cloudy 73°F
Field Staff: Alison Lunne

Well # MW-6

Sample ID: MW-06-082919

Location:	E. yard	Construction Depth:	14.5
Construction:	2" PVC	Screened Interval:	4.5-14.5
Groundwater Zone:	Shallow	Pump Intake Depth:	12.5'

Purge Start Time:	1335	Depth to Water:	6.65
Discharge Rate:	120 ml/m	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1340		6.82	21.61	6.14	0.754	1.81	15.3	0.37	9.28	clear
1345		6.85	21.47	6.12	0.756	0.57	-33.1	0.37	12.11	no odor
1350		6.86	22.33	6.10	0.758	0.56	-51.2	0.37	6.89	
1353		6.86	22.07	6.09	0.762	0.51	-56.2	0.37	4.11	
1356		6.87	22.25	6.08	0.759	0.47	-61.8	0.37	3.48	
1359		6.87	21.88	6.09	0.753	0.45	-63.7	0.37	5.12	
1402		6.87	21.96	6.09	0.748	0.43	-65.4	0.37	2.78	
1405		6.87	22.10	6.09	0.741	0.42	-67.1	0.37	5.63	

08/29/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm time 1410

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/26/19
Set up time: 1245
Weather: Sunny 70°F
Field Staff: Alison Lunde

Well # MW-7

Sample ID: MW-07-082619

Location: E. parking lot
Construction: 2" PVC
Groundwater Zone: Shallow

Construction Depth: 14.5
Screened Interval: 4-14.5
Pump Intake Depth: 12.5

Purge Start Time: 1255
Discharge Rate: 120 ml/m
Purge End Time: 1330

Depth to Water: 6.97
Height of Water Column: 7.53
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1305		6.99	21.45	6.64	0.296	0.41	116.8	0.14	\	
1310		6.99	21.39	5.96	0.302	0.39	122.0	0.14	\	
1315		6.99	21.20	5.91	0.310	0.46	126.5	0.15	\	
1318		6.99	21.21	5.92	0.313	0.46	127.0	0.15	7.73	
1321		6.99	21.38	5.92	0.316	0.45	128.2	0.15	4.57	
1324		6.99	21.53	5.91	0.317	0.45	129.0	0.15	2.88	
1327		6.99	21.83	5.91	0.318	0.43	129.5	0.15	3.15	

08/26/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm time 1335

Sampler Signature(s) :

ERM - Purge Log	
Project Name: Kent 212	
Project Number: 0487092	

Date:	08/27/19
Set up time:	0815
Weather:	Sunny 65°F
Field Staff:	Alison Lunde

Well # MW-8

Sample ID: MW-08-082719

Location:	E. yard	Construction Depth:	14.5
Construction:	2" PVC	Screened Interval:	4.5-14.5
Groundwater Zone:	Shallow	Pump Intake Depth:	13'

Purge Start Time:	0829	Depth to Water:	7.57
Discharge Rate:	120 mL/m	Height of Water Column:	6.93
Purge End Time:	0900	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0834		7.90	15.61	5.54	0.440	0.46	240.1	0.24	\	clear,
0839		7.92	15.95	5.51	0.473	0.39	227.4	0.23	\	no odor
0844		7.95	16.22	5.51	0.466	0.40	211.8	0.23	3.73	
0849		7.95	16.31	5.51	0.457	0.46	204.4	0.22	1.41	
0852		7.96	16.31	5.51	0.448	0.47	200.3	0.22	2.40	
0855		7.96	16.28	5.51	0.445	0.47	146.8	0.22	1.51	
0858		7.96	16.37	5.52	0.443	0.48	143.0	0.21	2.46	

08/27/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm time: 0904

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487083

Date: 08/27/19
Set up time: 0926
Weather: Sunny 70°F
Field Staff: Alison Linde

Well # MW-9

Sample ID: MW-09-082719

Location:	E. yard	Construction Depth:	15
Construction:	2" PVC	Screened Interval:	5-15'
Groundwater Zone:	shallow	Pump Intake Depth:	13.5'

Purge Start Time:	0937	Depth to Water:	7.69
Discharge Rate:	120 m/m	Height of Water Column:	7.31
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (___)	Turbity (ntu)	Color and Odor
0942		7.72	17.42	5.85	-73.1	0.33	0.586	0.29	67.6	orange partly
0947		7.75	17.30	5.79	-74.8	0.23	0.569	0.28	—	cloudy
0952		7.75	17.53	5.79	0.563	0.27	-77.0	0.27	9.44	no odor
0955		7.75	17.70	5.80	0.561	0.35	-78.1	0.27	12.22	
0958		7.75	17.81	5.80	0.560	0.38	-78.6	0.27	7.94	
1001		7.75	17.76	5.80	0.560	0.39	-79.4	0.27	7.83	
1004		7.75	17.90	5.82	0.559	0.37	-80.5	0.27	7.74	

08/27/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm time 1009

Sampler Signature(s) :

ERM - Purge Log	
Project Name: Kent 212	Date: 08/26/19
Project Number: 0485093	Set up time: 1510
	Weather: Sunny, 87°F
	Field Staff: Allison Lenoke

Well # MW-10 **Sample ID:** MW-10-082619

Location:	S. Parking lot	Construction Depth:	~~5-15~~ 15'
Construction:	2" PVC	Screened Interval:	5-15'
Groundwater Zone:	shallow	Pump Intake Depth:	8. 13'

Purge Start Time:	1525	Depth to Water:	6.84
Discharge Rate:	120 mL/m	Height of Water Column:	8.16
Purge End Time:	1558	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1535		6.86	21.47	6.30	0.214	0.30	-77.1	0.10	14.0	clear, orange
1540		6.86	21.23	6.25	0.214	0.33	-78.5	0.10	11.1	particles,
1545		6.86	20.97	6.24	0.214	0.24	-78.7	0.10	10.6	no odor
1548		6.86	20.61	6.22	0.214	0.27	-77.7	0.10	10.5	
1551		6.86	20.36	6.22	0.214	0.28	-77.4	0.10	9.20	
1554		6.86	20.21	6.20	0.214	0.27	-77.6	0.10	8.41	
1557		6.86	19.87	6.21	0.214	0.27	-78.4	0.10	7.66	

08/26/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - ~~0.0~~ 0.0 ppm time: 1602

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/27/19
Set up time: 1138
Weather: Sunny 70°F
Field Staff: Alison Lunde

Well # MW-12

Sample ID: MW-12-082719

Location: E. yard
Construction: 2" PVC
Groundwater Zone: Shallow
Construction Depth: ~~5-20~~ 20'
Screened Interval: 5-20'
Pump Intake Depth: 14.5'

Purge Start Time: 1149
Discharge Rate: 120 mL/m
Purge End Time:

Depth to Water: 6.74
Height of Water Column: 13.26
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1154		6.82	17.84	6.17	0.283	6.54	131.3	0.13	-	clear,
1159		6.82	18.02	6.08	0.282	0.40	132.4	0.13	6.35	no odor
1204		6.82	17.95	6.01	0.280	0.35	133.1	0.13	9.40	
1207		6.82	17.43	5.94	0.280	0.34	129.9	0.13	5.60	
1210		6.82	18.05	5.92	0.279	0.33	131.5	0.13	5.94	
1213		6.82	18.02	5.87	0.278	0.35	134.0	0.13	4.30	
1216		6.82	18.03	5.84	0.278	0.35	135.4	0.13	4.85	
1219		6.82	17.98	5.84	0.278	0.36	135.5	0.13	4.32	

08/27/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water
FIELD OBSERVATIONS (Well condition, repairs needed)

DUP-01-082719

PID-0.0 ppm time 1224

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/28/
Set up time: 1025
Weather: Sunny 75°F
Field Staff: Alison Linde

Well # MW-14

Sample ID: MW-14-082819

Location:	E. yard dock	Construction Depth:	42.2
Construction:	2" pvc	Screened Interval:	32.7-42.2
Groundwater Zone:	Deep	Pump Intake Depth:	37.5'

Purge Start Time:	1036
Discharge Rate:	120 ml/m
Purge End Time:	

Depth to Water:	6.42
Height of Water Column:	
Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1041		6.42	18.58	5.99	0.648	0.45	-30.7	0.32	13.60	clear,
1046		6.42	18.43	5.93	0.668	0.40	-44.1	0.33	11.82	no odor
1051		6.42	18.41	5.97	0.669	0.49	-50.1	0.33	2.62	
1055		6.42	18.38	5.85	0.668	0.45	-52.2	0.33	3.71	
1058		6.42	18.52	5.84	0.666	0.44	-53.8	0.33	1.14	
1101		6.42	18.36	5.84	0.667	0.42	-55.5	0.33	1.24	
1104		6.42	18.52	5.84	0.664	0.41	-56.4	0.32	2.59	
1107		6.42	18.36	5.84	0.664	0.40	-57.2	0.32	0.83	
1155		6.73	~~[illegible]~~ 24.9	6.11	0.742	1.23	-47.0	0.39	9.41	clear,
1200		6.73	24.23	6.11	0.787	0.57	-69.0	0.38	9.42	no odor
1205		6.73	25.27	6.08	0.791	0.57	-76.5	0.39	5.74	
1208		6.73	25.35	6.07	0.795	0.55	-77.8	0.39	7.01	
1211		6.73	25.75	6.05	0.800	0.53	-80.9	0.39	18.09	
1214		6.73	25.61	6.04	0.805	0.48	-83.0	0.39	11.65	
1217		6.73	25.53	6.04	0.811	0.48	-86.0	0.39	7.01	
1220		6.73	25.61	6.04	0.809	0.43	-87.2	0.40	6.54	

MW-13 Start: 1150 Finish: 1221 Setup - 1130

Depth: 7.10

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

MW-14	MW-13
PID - 0.0 ppm	PID
time 1112	time: 1225

Sampler Signature(s) :

[signature]

ERM - Purge Log	
Project Name: Vient 212	
Project Number: 0487093	

Date:	08/29/19
Set up time:	1030
Weather:	Cloudy 68°F
Field Staff:	Aaron Lunde

Well # MW-16

Sample ID: MW-16-082919

Location:	Inside building	Construction Depth:	47.2
Construction:	2" PVC	Screened Interval:	37.2-47.2
Groundwater Zone:	Deep	Pump Intake Depth:	42.5'

Purge Start Time:	1042	Depth to Water:	10.85
Discharge Rate:	120 ml/m	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1047		10.90	15.48	6.07	0.858	1.21	17.8	0.43	5.94	
1052		10.90	15.13	5.96	0.916	0.48	-35.1	0.45	2.43	
1057		10.90	15.16	5.86	0.920	0.58	-45.9	0.46	2.24	
1100		10.90	15.22	5.81	0.919	0.55	-50.1	0.46	4.37	
1103		10.90	15.00	5.82	0.919	0.50	-55.0	0.46	2.27	
1106		10.90	14.99	5.83	0.919	0.50	-57.8	0.46	4.43	
1109		10.90	15.07	5.85	0.916	0.49	-60.5	0.46	2.43	
1112		10.90	15.10	5.84	0.920	0.47	-64.5	0.46	5.12	
			AL			08/29/19				

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID 0.0 ppm time 1117

Sampler Signature(s) :

AL

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/28/14
Set up time: 1250
Weather: Sunny 79°F
Field Staff: Alison ...

Well # MW-17

Sample ID: MW-17-082814

Location: Parking Lot
Construction: 2" PVC
Groundwater Zone: Deep

Construction Depth: 43.8
Screened Interval: 34.3-43.8
Pump Intake Depth: 39'

Purge Start Time: 1315
Discharge Rate: 120 ml/m
Purge End Time:

Depth to Water: 6.60
Height of Water Column:
Volume of one casing:

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1320		6.65	21.15	6.23	1.189	0.46	-67.6	0.59	14.8	yellow tint,
1325		6.65	20.95	6.21	1.193	0.57	-81.4	0.60	25.6	no odor
1330		6.65	22.15	6.16	1.178	0.49	-85.0	0.59	10.47	
1333		6.65	22.75	6.15	1.183	0.45	-85.4	0.57	11.62	
1336		6.65	22.95	6.13	1.157	0.45	-85.9	0.57	9.27	
1339		6.65	23.39	6.12	1.136	0.42	-86.5	0.56	7.91	
1342		6.65	23.10	6.11	1.123	0.40	-86.1	0.56	10.05	
1420		6.70	21.04	6.09	0.745	0.64	-10.8	0.37	7.64	Clear, no
1425		6.70	20.85	6.06	0.800	0.50	-53.8	0.39	12.21	odor
1430		6.70	20.75	6.05	0.794	0.48	-66.9	0.39	6.47	
1433		6.70	21.32	6.03	0.788	0.43	-72.2	0.39	6.82	
1436		6.70	21.32	6.03	0.786	0.42	-72.7	0.39	13.7	
1439		6.70	20.77	6.04	0.784	0.41	-74.7	0.38	10.46	
1442		6.70	20.82	6.04	0.781	0.39	-76.0	0.38	11.41	
1445		6.70	20.61	6.04	0.781	0.39	-76.7	0.38	4.90	

Set up 1407
Start 1415 Purge 1446
Dep. 6.70
MW-18
Input 39.5'

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm — MW-17 time 1347 — DUP X 02-17 — MW-18 time 1450

Sampler Signature(s) :

[signature]

ERM - Purge Log	
Project Name: Kent 212	Date: 08/26/19
Project Number: 0487093	Set up time: 1000
	Weather: sunny, 70°F
	Field Staff: Aiden Lunde

Well # MW-19

Sample ID: MW-19-082619

Location:	N. Parking lot	Construction Depth:	44.4
Construction:	2" PVC	Screened Interval:	34.4-44.4
Groundwater Zone:	Deep	Pump Intake Depth:	46.2'

Purge Start Time:	1024	Depth to Water:	7.84
Discharge Rate:	120 mL/m	Height of Water Column:	41.86
Purge End Time:	1059	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	ORP Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1034		7.54	18.79	6.03	0.650	0.33	-71.8	0.32	\	clear no
1039		7.54	18.55	5.89	0.651	0.36	-68.5	0.32	\	odor
1042		7.54	19.76	5.85	0.652	0.48	-67.0	0.32	\	
1045		7.54	19.68	5.83	0.654	0.46	-65.4	0.32	\	
1048		7.54	19.90	5.80	0.661	0.46	-64.4	0.32	11.60	
1052		7.54	20.14	5.78	0.660	0.40	-63.7	0.32	13.40	
1055		7.54	20.08	5.76	0.667	0.44	-62.7	0.32	16.90	
1058		7.54	20.01	5.75	0.665	0.39	-62.0	0.32	14.1	

08/26/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.00 ppm

time: 1101

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212

Project Number: 0487063

Date: 08/29/2019

Set up time: 0720

Weather: Sunny 65

Field Staff: Allison Lineke

Well # MW-20

Sample ID: MW-20-082919

Location:	off site, sidewalk	Construction Depth:	43.2
Construction:	2" PVC	Screened Interval:	33.5-43.2
Groundwater Zone:	Deep	Pump Intake Depth:	38.5'

Purge Start Time:	0736	Depth to Water:	7.32
Discharge Rate:	120 mL/m	Height of Water Column:	35.88
Purge End Time:	0807	Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0741		7.32	16.94	5.32	1.138	0.50	-31.7	0.57	6.27	clear, no
0746		7.32	17.00	5.45	1.142	0.48	-54.7	0.57	6.34	odor
0751		7.32	17.28	5.51	1.144	0.58	-64.6	0.57	7.94	
0754		7.32	17.25	5.54	1.145	0.51	-68.5	0.57	14.0	
0757		7.32	17.20	5.56	1.144	0.49	-71.3	0.57	10.38	
0800		7.32	17.31	5.58	1.145	0.46	-74.0	0.57	9.43	
0803		7.32	17.40	5.59	1.144	0.43	-75.8	0.57	5.24	
0806		7.32	17.49	5.61	1.144	0.43	-77.2	0.57	5.38	
0828		7.15	17.16	5.76	0.636	0.46	-35.3	0.31	8.7	clear, no
0833		7.15	17.11	5.77	0.644	0.47	-43.3	0.31	16.7	odor
0838		7.15	17.30	5.79	0.646	0.46	-54.0	0.32	5.30	
0841		7.15	17.46	5.81	0.643	0.46	-59.5	0.32	3.01	
0844		7.15	17.25	5.82	0.648	0.45	-60.5	0.32	5.02	
0847		7.15	17.34	5.84	0.647	0.43	-62.1	0.32	3.02	
0850		7.15	17.31	5.85	0.647	0.40	-65.3	0.32	3.81	
0853		7.15	17.34	5.87	0.648	0.41	-67.2	0.32	2.31	

Set up - 0817
purg start - 0823
Finish - 0854
MW-27
rate - 120 ml/m
intake - 43'
Depth - 7.15

Disposal method of purge water: 55-gallon drum

Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

MW-20 PID-0.0 ppm time 0811

MW-27 time 0858 PID-0.0 ppm

Sampler Signature(s) :

ERM - Purge Log	
Project Name: Kent 212	
Project Number: 0487013	

Date:	08/29/19
Set up time:	0930
Weather:	Cloudy, 68F
Field Staff:	[illegible]

Well # MW-21

Sample ID: MW-21-082919

Location:	N. Corrosive Facility	Construction Depth:	44.1
Construction:	2" PVC	Screened Interval:	34.1-44.1
Groundwater Zone:	Deep	Pump Intake Depth:	38.51

Purge Start Time:	0940
Discharge Rate:	120 ml/m
Purge End Time:	

Depth to Water:	6.71
Height of Water Column:	
Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0945		6.77	18.07	6.50	0.745	1.03	-38.6	0.36	10.76	clear,
0950		6.78	17.84	6.16	0.687	0.40	-54.9	0.34	11.77	no odor
0955		6.79	17.41	6.07	0.671	0.48	-66.7	0.33	12.20	
0958		6.79	17.92	6.07	0.671	0.54	-67.6	0.33	6.73	
1001		6.79	18.06	6.06	0.673	0.53	-69.6	0.33	6.34	
1004		6.79	18.06	6.05	0.673	0.52	-70.0	0.33	5.70	
1007		6.79	18.07	6.05	0.672	0.49	-70.8	0.33	3.44	
1010		6.79	18.08	6.04	0.676	0.47	-71.3	0.33	5.30	

08/29/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

PID - 0.0 ppm time 1015

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0487093

Date: 08/26/2019
Set up time: 1400
Weather: sunny, 77°F
Field Staff: Alison Lunde

Well # MW-23

Sample ID: MW-23-082619

Location:	E. parking lot	Construction Depth:	15
Construction:	2" PVC	Screened Interval:	5-15
Groundwater Zone:	shallow	Pump Intake Depth:	12.5

Purge Start Time:	1421	Depth to Water:	6.75
Discharge Rate:	120 mL/m	Height of Water Column:	8.25
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1428		6.75	21.01	6.31	0.655	1.34	150.3	0.32	9.10	clear,
1433		6.75	21.04	6.12	0.654	0.40	152.5	0.32	6.25	no odor
1438		6.75	20.97	6.07	0.650	0.42	149.2	0.32	7.04	
1441		6.75	21.00	6.06	0.650	0.48	142.6	0.32	6.44	
1444		6.75	20.94	6.05	0.646	0.48	134.0	0.32	5.50	
1447		6.75	20.93	6.04	0.642	0.46	115.8	0.31	7.13	
1450		6.75	20.92	6.05	0.639	0.43	80.6	0.31	5.60	

08/26/19

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water
FIELD OBSERVATIONS (Well condition, repairs needed)

PID: 0.0 ppm time 1455

Sampler Signature(s) :

ERM - Purge Log

Project Name: Kent 212
Project Number: 0492093

Date: 08/28/19
Set up time: 0915
Weather: Sunny, 75°F
Field Staff: [illegible]

Well # MW-28

Sample ID: MW-28-082819

Location:	off-site, N. property	Construction Depth:	45
Construction:	2" PVC	Screened Interval:	35-45
Groundwater Zone:	Deep	Pump Intake Depth:	40'

Purge Start Time:	0928	Depth to Water:	8.80'
Discharge Rate:	120ml/m	Height of Water Column:	36.2'
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
0933		8.83	15.14	6.19	0.906	0.44	-72.3	0.45	2.41	Clear, no
0938		8.83	15.70	6.15	0.412	0.38	-90.3	0.45	6.06	odor
0943		8.83	15.75	6.07	0.408	0.47	-93.0	0.45	3.44	
0946		8.83	15.86	6.03	0.408	0.46	-93.9	0.45	1.97	
0949		8.83	15.97	6.01	0.406	0.49	-94.3	0.45	0.88	
0952		8.83	16.00	6.00	0.405	0.48	-94.2	0.45	3.27	
0955		8.83	15.98	5.98	0.899	0.46	-94.9	0.45	–	
1512		7.15	18.68	5.46	0.861	0.68	-30.5	0.42	22.5	
1517		7.15	17.84	5.97	0.857	0.55	-49.5	0.42	13.4	
1522		7.15	17.54	5.96	0.859	0.47	-62.8	0.43	4.38	
1525		7.15	17.64	5.96	0.862	0.44	-66.5	0.42	3.16	
1528		7.15	17.60	5.95	0.855	0.43	-69.7	0.43	4.13	
1531		7.15	17.68	5.95	0.852	0.43	-71.4	0.42	2.53	
1534		7.15	17.60	5.96	0.850	0.41	-72.6	0.41	2.05	
1537		7.15	18.05	5.94	0.846	0.40	-74.7	0.42	3.92	
										[illegible]

MW-22
Start 1507
Final 1530
Depth-7.11
Pump out-37.5

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

MW-28
PID-0.0 ppm time: 1000 time 1542

Sampler Signature(s) :

ERM - Purge Log	
Project Name: Kurtzig	Date: 08/30/14
Project Number: 0487043	Set up time: ~~[illegible]~~ 1145
	Weather: Cloudy 68°F
	Field Staff: Aaron Lunde

Well # MW-29D **Sample ID:** MW-29D-083014

Location:	Olympic Steamship	Construction Depth:	40.5
Construction:	2" PVC	Screened Interval:	30.5-40.5
Groundwater Zone:	Deep	Pump Intake Depth:	35.5

Purge Start Time:	1155	Depth to Water:	6.36
Discharge Rate:	120 ml/m	Height of Water Column:	
Purge End Time:		Volume of one casing:	

Time	Volume (mL)	Depth to Water (ft btoc)	Temp.	pH	EC (mS/cm)	D.O. (mg/L)	Redox	Salinity (__)	Turbity (ntu)	Color and Odor
1200		6.36	20.44	6.58	0.424	0.54	-84	0.20	106.2	cloudy
1205		6.36	20.28	6.53	0.423	0.41	-33.6	0.20	94.6	grey,
1210		6.36	19.85	6.49	0.420	0.37	-51.6	0.20	106.3	sediment
1213		6.36	20.08	6.46	0.420	0.37	-55.8	0.20	102.0	present
1216		6.36	20.03	6.44	0.418	0.36	-58.4	0.20	108.3	
1219		6.36	20.11	6.42	0.416	0.34	-62.2	0.20	108.4	
1222		6.36	20.19	6.42	0.415	0.35	-62.4	0.20	109.4	
1225		6.36	19.73	6.41	0.414	0.32	-64.0	0.20	108.3	

08/30/14

Disposal method of purge water: 55-gallon drum
Decontamination procedure: Liquinox or alconox scrub, followed by DI water

FIELD OBSERVATIONS (Well condition, repairs needed)

time 1230 PID - 0.0 ppm

Sampler Signature(s) :

APPENDIX C SURVEY DATA

True NORTH LAND SURVEYING, INC.

8220 South 212th St., Kent Washington

Monitoring Wells

Pt #	Well	Northing	Easting	Latitude	Longitude	Top of Metal Case Elev.	Top of PVC Casing Elev
319	MW19	153355.51	1294553.64	N 47° 24' 42.514"	W 122° 13' 48.823"	33.715	33.385
320	MW20	153476.23	1294414.19	N 47° 24' 43.680"	W 122° 13' 50.882"	33.342	33.032
327	MW27	153480.61	1294602.19	N 47° 24' 43.757"	W 122° 13' 48.150"	33.280	32.937
328	MW28	153365.35	1294316.53	N 47° 24' 42.569"	W 122° 13' 52.272"	34.935	34.535
329	MW29	154610.63	1294055.96	N 47° 24' 54.810"	W 122° 13' 56.389"	30.834	30.416

Notes:

1. The horizontal datum: Washington State Plane Coordinate System, North Zone, NAD83/11,
2. Vertical Datum NAVD88. Bench Mark Ciy of Kent #8149 elevation 33.84 feet
3. Date of Survey 8-27-2019
4. All elevations were established using a Leica DNA 3 Electronic Level.
5. MW 19, 20, 27, and 28 were located only for the purpose of comparing existing values that were supplied to True North.

G:\Jobs\2019\J19120 - ERM Kent\WP\J19-120 8220 SOUTH 212TH ST KENT

815 S. Weller Street, Suite 200 Seattle, WA 98104-3023 (206)332-0800 fax (206)332-0802

APPENDIX D HISTORICAL GROUNDWATER ELEVATIONS

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
MW-1	04/17/95	6.37	2,310	11.0	NM	NM	NM
	09/04/96	6.49	1,620	18.5	227.0	1.20	NM
	12/10/96	6.37	1,653	9.8	427.0	1.18	NM
	03/04/97	6.65	1,359	11.0	37.1	1.70	NM
	06/27/97	6.62	1,195	15.0	> 1,000	1.00	NM
	09/04/97	6.78	837	18.0	40.0	1.71	NM
	12/04/97	6.23	1,076	12.0	16.2	8.85	NM
	03/06/98	6.83	1,284	10.0	16.0	2.15	NM
	06/18/98	6.85	1,045	15.5	60.7	2.60	NM
	09/29/98	6.58	851	18.5	45.8	1.27	NM
	12/14/98	6.50	973	13.1	16.4	1.14	-147
	03/03/99	6.70	849	10.0	55.0	3.02	-148
	06/17/99	6.51	790	14.0	6.7	1.30	-176
	09/16/99	6.60	905	17.0	14.1	0.10	-189
	12/08/99	7.12	408	12.9	9.8	0.30	-158
	03/07/00	7.51	599	10.0	5.9	0.20	-126
	06/21/00	7.10	505	16.0	4.6	1.20	7
	09/12/00	6.80	790	14.5	NM	2.60	-69
	12/07/00	7.04	830	12.0	6.9	1.10	-60
	03/15/01	7.06	999	10.0	4.9	2.00	-48
	07/12/01	7.03	925	15.6	7.8	2.65	-141
	09/24/01	6.54	NM	20.2	4.3	1.08	NM
	01/02/02	7.19	1,150	11.8	NM	NM	NM
	03/28/02	7.26	351	10.2	NM	0.20	NM
	06/11/02	7.34	613	15.2	NM	0.22	NM
	09/18/02	6.93	771	18.6	NM	0.04	-200
	12/17/02	7.01	601	12.6	3.5	0.19	NM
	03/20/03	7.19	517	10.9	5.8	0.13	-111
	05/14/03	7.00	493	12.9	NM	0.74	-75
	06/11/03	7.02	405	15.0	8.0	0.23	NM
	09/11/03	7.03	474	18.7	4.0	0.21	NM
	12/04/03	7.00	451	13.7	4.2	0.23	-51
	03/16/04	6.71	391	11.0	4.6	0.32	-63
	09/22/04	6.49	500	16.0	NM	0.21	4
	04/05/05	6.75	465	12.3	NM	1.10	5
	09/21/05	7.26	624	17.8	NM	0.26	5
	03/15/06	6.88	550	11.0	18.8	< 0.01	NM
	09/14/06	6.82	630	16.8	NM	0.22	56
	04/04/07	7.16	737	11.6	5.7	< 0.01	-64
	09/25/07	6.80	687	15.7	6.2	0.18	-240
	05/02/08	6.87	883	12.3	NM	0.19	-66
	09/30/08	6.93	843	16.2	NM	7.57[a]	-101
	03/25/09	7.11	843	9.4	NM	0.30	-45
	09/30/09	6.96	346	18.1	NM	0.08	3

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/29/10	6.97	842	11.4	NM	0.30	-8
	09/30/10	7.26	937	17.2	NM	0.24	-10
MW-2	04/17/95	6.30	1,000	13.0	NM	NM	NM
	09/04/96	6.11	964	14.8	8.5	1.00	NM
	12/10/96	6.27	704	13.1	1000.0	0.92	NM
	03/04/97	6.20	754	13.0	9.4	1.77	NM
	06/27/97	6.54	667	14.0	322.0	3.00	NM
	09/04/97	6.41	638	15.0	332.0	1.17	NM
	12/04/97	5.25	612	14.0	74.4	1.80	NM
	03/06/98	6.48	826	12.0	66.9	1.12	NM
	06/18/98	6.60	899	14.0	334.0	3.50	NM
	09/29/98	6.35	705	17.0	16.6	16.6[a]	NM
	12/14/98	6.20	632	15.1	NM	1.14	-84
	03/02/99	6.29	560	12.0	59.4	1.30	-91.9
	06/16/99	6.02	663	13.0	NM	0.90	-76
	09/16/99	6.39	734	13.0	11.5	< 0.1	-475
	12/08/99	6.74	421	14.8	15.5	1.30	-121
	03/07/00	6.40	491	12.0	18.9	0.40	-70
	06/21/00	6.55	320	15.0	6.1	1.51	8
	09/12/00	6.10	667	13.0	10.9	3.90	-57
	12/07/00	6.21	574	13.0	6.1	1.90	-18
	03/15/01	6.60	556	12.0	39.0	0.60	-49
	07/12/01	6.53	652	15.1	76.7	2.54	-116
	09/24/01	6.69	NM	19.5	5.0	1.10	NM
	01/03/02	5.81	531	13.7	12.3	0.00	NM
	03/28/02	6.28	229	12.6	6.2	0.63	NM
	06/11/02	6.72	526	14.2	7.1	0.43	NM
	09/18/02	6.63	597	17.9	NM	0.08	-11
	12/16/02	6.04	480	15.2	5.1	0.34	NM
	03/20/03	6.63	413	12.5	28.9	0.12	-57
	06/11/03	6.59	306	13.9	10.2	0.31	NM
	09/10/03	6.33	416	15.9	4.2	0.34	NM
	12/05/03	6.58	293	14.3	5.3	0.31	-20
	03/16/04	6.54	306	12.8	25.4	0.30	-23
	09/24/04	6.46	376	17.0	NM	0.37	30
	04/05/05	6.39	438	12.5	NM	1.04	24
	09/21/05	6.71	512	17.1	NM	0.26	-3
	03/15/06	6.57	403	12.4	52.8	< 0.01	NM
	09/13/06	6.33	472	15.5	NM	0.15	68
	04/03/07	6.64	421	13.9	64.8	0.11	116
	09/26/07	6.44	608	15.8	42.3	0.21	-178
	05/02/08	6.29	567	12.2	NM	0.25	-23
	09/29/08	6.43	607	19.6	NM	0.20	-121
	03/26/09	5.99	543	9.6	NM	0.31	-9

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	09/29/09	6.44	55[a]	15.6	NM	8.1[a]	32
	03/26/10	6.49	390	12.6	NM	0.82	7
	09/30/10	6.68	556	16.4	NM	0.28	27
MW-3	04/17/95	6.40	1,580	12.0	NM	NM	NM
	09/04/96	6.33	1,357	14.9	5.1	1.60	NM
	12/11/96	6.48	979	12.4	14.7	1.00	NM
	03/04/97	6.44	1,152	13.0	9.4	1.69	NM
	06/27/97	6.64	937	13.0	423.0	1.00	NM
	09/04/97	6.47	765	15.0	132.0	1.81	NM
	12/04/97	6.20	844	13.5	7.5	1.29	NM
	03/06/98	6.53	1,255	12.0	3.4	1.90	NM
	06/18/98	6.55	1,225	13.0	5.3	0.90	NM
	09/29/98	6.41	947	14.0	7.9	1.22	NM
	12/14/98	6.25	1,054	13.5	0.9	1.14	-79
	03/03/99	6.45	765	12.0	4.7	NM	-105
	06/16/99	6.31	837	12.0	NM	1.00	-120
	09/17/99	6.48	964	14.0	4.2	0.10	-129
	12/08/99	6.80	137	13.5	6.7	1.50	-63
	03/07/00	6.62	766	12.0	8.0	0.80	-75
	06/21/00	6.92	452	14.0	7.5	1.25	-81
	09/12/00	6.70	836	10.7	NM	1.40	-36
	12/07/00	6.09	732	12.0	2.7	1.80	-62
	03/15/01	6.80	809	11.0	7.5	0.90	NM
	07/12/01	6.63	746	13.1	8.2	1.36	-42
	09/24/01	6.49	NM	16.9	11.8	0.16	NM
	01/03/02	6.52	955	13.1	2.0	0.00	NM
	03/28/02	6.74	330	12.3	5.8	0.19	NM
	06/11/02	6.89	786	12.8	14.3	0.38	NM
	09/17/02	6.80	773	15.2	NM	0.10	-135
	12/17/02	6.44	821	13.0	7.5	0.40	NM
	03/20/03	6.85	521	12.1	3.3	0.12	-73
	06/11/03	7.17	411	13.8	3.6	0.24	NM
	09/11/03	6.72	395	16.1	2.5	0.24	NM
	12/04/03	6.69	388	13.2	2.2	0.68	94
	03/15/04	6.61	425	12.3	2.1	0.32	-81
	09/24/04	6.56	448	15.6	NM	NM	2
	04/05/05	6.95	726	13.0	NM	0.33	-4
	09/21/05	7.11	560	15.6	NM	0.42	-6
	03/14/06	7.14	519	11.9	1.0	< 0.01	NM
	09/12/06	6.50	606	15.8	NM	0.19	-21
	04/04/07	6.40	515	12.1	13.3	0.06	-1
	09/25/07	6.43	540	14.2	6.8	0.40	-183
	05/01/08	6.63	688	11.9	NM	0.17	-74
	10/01/08	6.77	662	17.2	NM	0.04	-118

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/24/09	6.64	727	11.3	NM	0.26	-81
	09/29/09	6.82	220	17.0	NM	0.37	10
	03/30/10	6.85	601	11.6	NM	0.99	-5
	09/28/10	6.98	647	15.6	NM	0.28	8
MW-4	09/04/96	6.29	1,452	17.9	98.5	1.50	NM
	12/10/96	6.29	1,690	11.9	427.0	0.83	NM
	03/04/97	6.75	1,868	10.0	2.6	2.82	NM
	06/27/97	6.78	1,431	11.0	55.0	1.00	NM
	09/04/97	6.82	1,120	19.0	51.0	1.40	NM
	12/04/97	6.33	1,578	13.0	6.5	1.80	NM
	03/06/98	6.88	1,847	10.0	3.6	1.92	NM
	06/18/98	6.79	1,862	15.0	4.5	2.20	NM
	09/29/98	6.63	1,288	18.0	10.8	1.26	NM
	12/14/98	6.18	1,560	13.9	2.6	1.16	-150
	03/03/99	6.69	1,288	9.0	9.6	NM	155
	06/17/99	6.69	NM	13.0	1.9	0.10	-186
	09/17/99	6.57	1,623	17.0	2.5	1.90	-178
	12/08/99	6.94	394	13.6	4.3	0.50	-109
	03/07/00	6.92	1,344	12.0	5.8	1.10	-68
	06/21/00	6.90	992	15.0	2.4	1.29	-67
	09/12/00	6.58	1,450	14.0	1.6	2.20	-86
	12/07/00	6.60	1,210	13.0	3.6	2.40	15
	03/15/01	6.60	1,361	10.0	5.2	1.50	-24
	07/12/01	6.70	1,594	15.2	6.2	2.73	-108
	09/25/01	6.17	NM	17.7	47.9	1.04	NM
	01/02/02	6.73	1,840	11.9	74.0	NM	NM
	03/28/02	6.95	655	10.5	24.7	0.39	NM
	06/11/02	6.97	817	13.3	NM	0.17	NM
	09/18/02	6.81	1,452	18.1	NM	0.04	-106
	12/17/02	6.54	1,011	12.4	2.7	0.34	NM
	03/20/03	6.74	877	10.8	3.6	0.07	-78
	05/14/03	6.70	864	12.2	NM	0.74	-45
	06/11/03	6.89	776	13.9	4.0	0.21	NM
	09/11/03	6.60	756	17.1	3.7	0.25	NM
	12/04/03	6.68	437	13.1	4.2	0.22	-52
	03/15/04	6.60	518	10.6	1.9	0.46	-58
	09/24/04	6.45	596	15.4	NM	0.62	36
	04/04/05	6.71	945	11.6	NM	1.20	58
	09/21/05	6.56	881	17.5	NM	0.71	-1
	03/15/06	6.82	907	10.1	8.3	0.01	NM
	09/14/06	6.49	907	15.5	NM	0.33	98
	04/04/07	6.85	891	11.2	5.9	< 0.01	-68
	09/26/07	6.51	992	16.7	4.2	< 0.01	-210
	05/02/08	6.46	1,076	11.1	NM	0.19	-39

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	10/01/08	6.48	1,073	15.8	NM	0.26	-68
	03/25/09	6.81	1,256	9.5	NM	0.30	-45
	09/30/09	6.59	369	17.9	NM	0.11	24
	03/29/10	6.71	1,094	9.9	NM	0.58	-8
	10/01/10	6.89	1,054	16.7	NM	0.55	10
MW-5	09/04/96	6.23	422	15.9	21.7	2.10	NM
	12/10/96	6.15	463	12.7	984.0	1.53	NM
	03/04/97	6.22	506	13.0	8.9	2.48	NM
	06/27/97	6.46	329	15.0	245.0	2.00	NM
	09/04/97	6.79	285	16.0	51.0	1.39	NM
	12/04/97	5.90	367	13.0	3.6	1.35	NM
	03/06/98	6.38	425	12.0	4.9	1.97	NM
	06/18/98	6.36	439	14.0	8.5	2.20	NM
	09/29/98	6.29	326	17.0	8.7	1.54	NM
	12/15/98	5.94	394	14.8	3.6	1.72	111
	03/02/99	5.87	301	12.0	8.9	1.47	237
	06/16/99	5.99	375	12.0	< 10	0.20	161
	09/16/99	6.19	449	14.0	2.9	0.40	-159
	12/08/99	6.59	238	14.9	5.1	0.20	72
	03/07/00	6.34	278	12.0	7.9	1.10	67
	06/21/00	6.45	185	14.0	1.6	1.68	-8
	09/12/00	7.24	349	12.4	1.9	1.20	-18
	12/07/00	6.15	314	13.0	14.4	2.30	-45
	03/15/01	6.55	371	11.0	9.1	3.50	-61
	07/09/01	6.32	352	14.2	4.6	1.01	111
	09/24/01	6.16	256	18.1	63.7	6.17	NM
	01/02/02	6.09	468	15.3	NM	NM	NM
	03/27/02	6.51	5,000	9.7	5.1	3.84	NM
	06/11/02	6.29	439	13.9	2.4	1.05	NM
	09/18/02	6.28	429	15.6	NM	0.25	-4
	12/16/02	6.18	341	14.2	2.7	0.48	NM
	03/17/03	6.29	350	13.4	3.4	0.36	79
	05/14/03	6.42	286	12.3	NM	0.69	34
	06/10/03	6.35	218	13.8	11.6	0.30	NM
	09/11/03	6.32	267	16.5	1.4	0.37	NM
	12/05/03	6.40	219	13.8	7.1	0.34	281
	03/16/04	6.40	219	12.7	7.1	0.77	73
	09/22/04	6.27	337	13.9	NM	0.66	60
	04/04/05	6.41	290	13.1	NM	1.55	100
	09/20/05	6.59	324	18.5	NM	0.36	11
	03/14/06	6.45	312	12.4	12.1	0.61	NM
	09/13/06	6.34	296	15.7	NM	0.32	124
	04/05/07	6.47	327	12.2	7.7	0.73	128
	09/26/07	6.22	351	15.1	6.2	0.58	92

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	05/01/08	6.10	436	12.9	NM	0.84	74
	09/30/08	6.17	397	15.7	NM	0.33	116
	03/25/09	6.29	463	10.6	NM	0.57	106
	09/29/09	6.36	127	16.5	NM	1.73	37
	04/01/10	6.39	287	12.5	16.0	0.49	27
	04/09/10	NM	340	NM	3.0	NM	NM
	04/16/10	6.38	342	13.4	8.0	0.70	26
	05/06/10	6.52	297	12.7	6.0	2.35	23
	06/09/10	6.44	283	14.1	14.0	1.61	24
	09/28/10	6.55	262	18.4	NM	1.06	26
MW-6	09/04/96	6.30	1,930	14.5	23.0	4.80	NM
	12/10/96	6.17	1,909	12.0	> 1,000	1.02	NM
	03/04/97	6.32	1,683	11.0	6.1	3.44	NM
	06/27/97	6.41	1,469	14.0	73.0	1.00	NM
	09/04/97	6.30	1,157	15.0	98.0	1.15	NM
	12/04/97	5.92	1,286	14.0	5.7	1.05	NM
	03/06/98	6.33	1,620	11.0	5.7	1.10	NM
	06/18/98	6.33	1,804	14.0	7.0	1.80	NM
	09/29/98	6.25	1,440	17.5	7.9	1.91	NM
	12/15/98	5.93	1,390	14.4	NM	1.26	-89
	03/02/99	6.03	1,107	11.0	7.7	1.38	-85
	06/16/99	6.15	1,441	12.0	< 10	< 0.1	-117
	09/16/99	6.27	1,621	13.0	9.1	0.60	-476
	12/08/99	6.63	315	13.7	3.7	0.70	-91
	03/07/00	6.36	1,147	11.0	5.5	0.60	-54
	06/21/00	6.66	810	14.0	1.0	1.75	-37
	09/12/00	6.50	1,378	12.0	NM	2.30	-43
	12/07/00	5.79	1,270	14.0	3.6	1.60	-15
	03/15/01	6.35	1,079	11.0	16.1	0.40	-31
	07/12/01	6.39	1,210	14.1	7.6	1.07	-44
	09/25/01	6.63	NM	16.4	18.9	1.02	NM
	01/03/02	6.19	1,120	12.9	1.5	0.00	NM
	03/27/02	6.32	NM	9.0	NM	0.45	NM
	06/11/02	6.78	891	13.5	NM	0.34	NM
	09/18/02	6.49	1,312	16.7	NM	0.16	-157
	12/16/02	6.25	1,179	14.2	8.8	0.24	NM
	03/20/03	6.53	721	12.1	5.3	0.17	-70
	06/11/03	6.74	387	14.1	21.3	0.33	NM
	09/10/03	6.44	601	16.9	4.2	0.31	NM
	12/04/03	6.60	393	14.3	6.2	0.26	-12
	03/16/04	6.75	286	12.9	6.9	0.25	-37
	09/23/04	6.36	635	16.3	NM	0.55	13
	04/05/05	6.61	541	13.3	NM	0.61	-17
	09/21/05	6.47	1,045	15.4	NM	0.66	40

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/14/06	6.70	445	12.7	12.6	< 0.01	NM
	09/13/06	6.39	868	15.4	NM	0.25	64
	04/05/07	6.50	377	12.6	19.0	0.07	23
	09/26/07	6.39	1,010	15.0	12.2	0.06	-190
	05/02/08	6.39	578	11.9	NM	0.19	-26
	09/30/08	6.26	1,011	14.9	NM	0.14	-85
	03/26/09	6.84	573	11.9	NM	0.41	6
	09/29/09	6.30	99[a]	14.3	NM	6.9[a]	39
	03/30/10	6.53	533	11.5	NM	0.61	14
	09/30/10	6.55	936	15.9	NM	0.35	30
MW-7	12/22/97	6.56	550	11.0	139.0	2.15	NM
	03/06/98	6.63	536	12.0	13.4	1.53	NM
	06/18/98	6.36	543	14.0	13.0	2.40	NM
	09/29/98	6.38	438	17.0	20.5	1.41	NM
	12/14/98	5.98	409	15.2	3.2	1.23	68
	03/03/99	7.07	288	12.0	5.5	NM	-8.4
	06/17/99	6.07	462	13.0	NM	0.80	1
	09/17/99	6.13	506	16.0	11.4	< 0.1	-72
	12/08/99	6.71	342	15.3	7.6	1.30	-2
	03/07/00	6.44	362	12.0	6.7	0.80	-11
	06/21/00	6.57	241	14.0	0.7	2.04	24
	09/12/00	6.00	493	13.0	12.6	1.40	5
	12/07/00	6.46	505	14.0	31.0	2.60	-39
	03/15/01	6.58	425	12.0	20.2	1.50	NM
	07/12/01	6.45	493	14.1	10.5	1.87	54
	09/25/01	6.48	NM	15.6	2.8	1.12	NM
	01/03/02	6.17	628	13.9	4.1	0.00	NM
	03/28/02	6.37	184	12.3	4.7	2.61	NM
	06/11/02	6.66	383	13.2	5.7	0.70	NM
	09/17/02	6.56	427	16.0	NM	0.15	4
	12/17/02	6.46	351	13.2	2.4	0.32	NM
	03/17/03	6.49	436	13.3	19.7	0.13	27
	06/10/03	6.88	282	13.8	52.1	0.18	NM
	09/10/03	6.27	257	16.0	3.0	0.49	NM
	12/04/03	6.68	239	13.4	4.7	0.29	159
	03/16/04	6.62	268	13.9	7.3	0.84	34
	09/22/04	7.00	469	16.0	NM	0.21	103
	04/04/05	6.71	388	13.0	NM	0.86	40
	09/20/05	6.75	404	18.3	NM	0.68	-11
	03/14/06	7.11	312	12.5	3.7	2.78	NM
	09/13/06	6.33	345	16.0	NM	0.26	115
	04/03/07	6.56	220	12.6	15.2	5.06	222
	09/25/07	6.43	313	17.1	8.7	0.59	44
	05/01/08	6.30	337	13.4	NM	1.40	41

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	10/01/08	6.41	389	17.3	NM	0.13	30
	03/24/09	6.12	450	11.3	NM	0.97	94
	09/29/09	6.51	141	15.9	NM	1.83	28
	04/01/10	6.81	255	12.4	NM	1.48	6
	09/28/10	6.71	318	17.4	NM	0.27	17
MW-8	12/22/97	6.37	495	12.0	66.5	4.06	NM
	03/06/98	6.49	758	12.0	70.1	2.72	NM
	06/18/98	6.66	662	13.0	243.0	2.80	NM
	09/29/98	6.33	428	14.5	48.3	1.70	NM
	12/14/98	6.11	413	13.9	13.8	1.83	72
	03/02/99	6.10	442	12.0	90.5	2.11	117
	06/16/99	5.95	534	11.0	< 10	0.10	132
	09/16/99	6.22	588	13.0	10.5	1.80	-205
	12/08/99	6.50	140	13.9	133.0	2.40	55
	03/07/00	6.90	455	12.0	25.3	1.50	38
	06/21/00	6.30	313	14.0	1.2	1.73	37
	09/12/00	6.52	447	11.6	2.6	3.50	52
	12/07/00	6.99	387	14.0	6.5	1.80	-10
	03/15/01	6.45	433	11.0	8.3	2.70	-50
	07/12/01	6.30	427	13.8	5.0	2.03	53
	09/25/01	6.48	NM	14.4	22.0	1.02	NM
	01/03/02	5.64	468	13.4	2.8	0.00	NM
	03/27/02	6.31	NM	8.9	5.1	1.95	NM
	06/11/02	6.41	576	12.9	6.4	0.40	NM
	09/18/02	6.32	415	15.0	NM	0.15	-88
	12/16/02	6.23	294	13.6	11.6	0.35	NM
	03/17/03	6.31	279	12.4	2.4	0.28	87
	05/14/03	6.36	338	13.6	NM	0.83	35
	06/11/03	6.54	249	13.4	3.5	0.54	NM
	09/10/03	6.12	249	15.5	1.3	0.70	NM
	12/04/03	6.62	165	13.5	4.7	0.17	153
	03/16/04	6.48	292	12.6	6.1	0.72	47
	09/24/04	6.60	309	16.0	NM	0.18	66
	04/05/05	6.48	385	12.9	NM	1.31	-1
	09/20/05	6.52	349	18.1	NM	0.53	31
	03/15/06	6.60	433	12.0	26.5	0.42	NM
	09/13/06	6.41	411	14.9	NM	0.25	52
	04/05/07	6.32	690	12.4	6.7	0.44	176
	09/26/07	6.30	506	14.7	10.3	0.50	-1
	05/01/08	6.07	812	12.8	NM	1.14	94
	09/30/08	6.25	584	15.2	NM	0.18	60
	03/26/09	6.70	906	12.3	NM	0.96	90
	09/29/09	6.27	135	15.3	NM	7.6[a]	40
	04/01/10	6.29	949	11.9	NM	0.79	29

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	09/28/10	6.44	1,217	18.1	NM	0.28	32
MW-9	07/09/01	6.24	812	13.9	8.2	2.28	-63
	09/25/01	6.33	NM	14.7	52.2	1.06	NM
	01/03/02	6.13	763	13.4	1.4	0.00	NM
	03/27/02	6.37	NM	8.2	NM	0.59	NM
	06/11/02	6.61	700	12.8	NM	0.61	NM
	09/17/02	6.41	728	14.7	NM	0.13	-131
	12/16/02	6.24	614	13.7	27.7	0.26	NM
	03/17/03	6.52	460	12.7	18.8	0.08	-47
	06/11/03	6.28	395	13.3	64.7	0.41	NM
	09/10/03	6.12	494	15.1	21.6	0.33	NM
	12/04/03	6.49	351	14.5	16.0	0.18	21
	03/16/04	6.46	269	12.4	5.1	0.44	46
	09/23/04	6.48	488	15.5	NM	0.17	55
	04/05/05	6.53	710	13.2	NM	1.15	-5
	09/20/05	6.25	550	16.7	NM	0.21	24
	03/14/06	6.51	416	12.7	347.0	< 0.01	NM
	09/13/06	6.43	548	14.7	NM	0.18	59
	04/05/07	6.26	438	12.5	110.0	0.01	50
	09/26/07	6.18	596	14.2	89.1	0.35	-166
	05/01/08	6.28	753	13.1	NM	0.24	78
	09/30/08	6.29	707	14.7	NM	0.15	-79
	03/26/09	6.69	649	11.8	NM	0.29	66
	09/29/09	6.38	111	14.9	NM	7.7[a]	35
	03/30/10	6.58	559	11.9	NM	0.72	17
	09/28/10	6.52	651	17.3	NM	0.24	27
MW-10	07/09/01	6.47	463	14.2	14.2	2.11	72
	09/25/01	6.53	NM	15.6	184.0	0.98	NM
	01/03/02	6.33	460	13.6	3.2	0.00	NM
	03/28/02	6.57	159	12.0	NM	0.32	NM
	06/11/02	6.90	397	13.1	NM	0.22	NM
	09/17/02	6.76	390	15.1	NM	0.10	-97
	12/17/02	6.65	300	13.5	20.2	0.21	NM
	03/20/02	6.82	336	12.9	3.2	0.10	-62
	06/10/03	6.97	222	14.1	15.9	0.18	NM
	09/10/03	6.09	267	16.3	9.0	0.49	NM
	12/04/03	6.61	179	13.4	7.6	0.37	44
	03/16/04	6.51	245	11.7	3.4	0.56	-24
	09/22/04	6.80	282	17.0	NM	0.61	10
	04/05/05	7.68	315	12.1	NM	0.89	-10
	09/20/05	6.62	284	18.1	NM	0.67	1
	03/15/06	6.71	268	11.2	6.7	0.16	NM
	09/12/06	6.59	281	20.3	NM	0.30	-67
	04/03/07	6.95	215	13.7	11.7	< 0.01	46

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	09/24/07	6.61	238	16.9	7.7	0.45	-138
	05/01/08	6.56	268	11.8	NM	0.12	-54
	10/01/08	6.72	237	15.3	NM	0.11	-62
	03/24/09	6.53	266	11.2	NM	0.27	-36
	09/30/09	6.73	96[a]	15.7	NM	0.23	13
	03/30/10	6.96	201	11.1	NM	1.33	-8
	09/28/10	6.98	185	17.7	NM	0.20	3
MW-11	07/09/01	6.69	406	12.8	134.0	0.89	22
	09/24/01	6.28	418	17.5	112.0	6.13	NM
	01/02/02	6.24	431	14.8	NM	NM	NM
	03/27/02	6.58	5,000	9.1	12.0	4.42	NM
	06/11/02	6.35	444	14.2	6.4	2.74	NM
	09/17/02	6.22	530	16.3	NM	0.14	83
	12/16/02	6.00	593	14.0	1.8	0.30	NM
	03/17/03	6.15	539	13.4	4.6	0.16	26
	06/10/03	6.20	321	13.7	8.7	0.35	NM
	09/10/03	6.08	411	15.4	5.0	0.31	NM
	12/05/03	6.25	337	13.5	5.1	0.29	260
	03/16/04	6.36	269	12.7	1.7	0.50	73
	09/22/04	6.44	285	16.6	NM	0.38	85
	04/04/05	6.51	320	13.2	NM	1.84	94
	09/20/05	6.33	352	18.6	NM	0.51	-8
	03/14/06	6.80	345	13.0	41.5	< 0.01	NM
	09/13/06	6.22	397	15.2	NM	0.19	138
	04/04/07	5.85	315	12.1	23.5	0.28	208
	09/26/07	6.27	312	14.9	18.3	0.39	85
	05/01/08	6.11	486	13.5	NM	0.46	69
	09/30/08	6.13	703	16.2	NM	0.19	107
	04/01/10	6.40	286	12.0	13.0	0.46	23
	04/09/10	NM	330	NM	3.0	NM	NM
	04/16/10	6.41	326	13.6	21.0	0.12	26
	05/06/10	6.55	285	13.0	13.0	0.30	24
	06/09/10	6.43	278	14.3	13.0	0.65	25
MW-12	07/09/01	6.67	590	14.5	95.2	1.40	37
	09/24/01	6.41	NM	19.2	78.9	1.17	NM
	01/03/02	5.37	1,480	16.2	7.9	NM	NM
	03/27/02	5.59	NM	12.3	15.8	0.43	NM
	06/11/02	6.33	865	14.6	5.4	0.31	NM
	09/17/02	6.29	737	16.8	NM	0.18	-147
	12/16/02	6.14	475	14.7	2.1	0.12	NM
	03/17/03	6.13	620	14.1	47.3	0.21	1
	05/14/03	6.21	383	13.7	NM	0.66	31
	06/10/03	6.30	367	13.8	66.7	0.45	NM
	09/10/03	6.06	419	15.9	27.8	0.35	NM

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	12/05/03	6.18	410	13.4	9.2	0.33	40
	03/16/04	6.40	317	12.5	3.4	0.30	60
	09/22/04	6.58	408	16.5	NM	2.00	59
	04/04/05	6.93	416	13.0	NM	1.39	88
	09/20/05	6.70	460	18.4	NM	0.37	-12
	03/14/06	6.91	410	12.8	36.4	0.38	NM
	09/13/06	6.31	390	15.6	NM	0.19	132
	04/04/07	5.82	420	12.5	34.1	0.10	196
	09/26/07	6.42	383	15.3	28.7	0.20	62
	05/01/08	6.07	592	14.0	NM	0.35	71
	09/30/08	6.25	511	16.6	NM	0.19	97
	03/26/09	6.32	672	13.3	NM	0.34	9
	09/29/09	6.40	196	16.7	NM	1.55	33
	04/01/10	6.56	347	13.0	NM	0.87	27
	09/28/10	6.52	322	18.6	NM	0.35	26
MW-13	03/31/03	6.41	506	14.3	76.0	0.22	-37
	05/14/03	6.29	491	13.8	NM	0.84	-53
	06/11/03	6.63	425	14.7	15.5	0.25	NM
	09/11/03	6.60	470	16.8	23.1	0.58	NM
	12/04/03	6.86	379	13.1	5.7	0.28	-11
	03/15/04	6.58	458	12.8	9.7	0.31	-44
	06/10/04	6.55	383	14.4	NM	0.62	-21
	09/23/04	6.38	427	15.6	NM	0.17	18
	04/05/05	7.02	242	12.9	NM	1.43	9
	09/21/05	6.92	367	16.9	NM	0.22	-15
	03/15/06	7.07	301	13.2	4.0	< 0.01	NM
	09/14/06	6.58	490	16.0	NM	0.20	59
	04/04/07	6.76	557	13.6	5.0	0.03	-39
	09/25/07	6.50	617	15.6	4.8	-0.11	-210
	05/02/08	6.29	758	14.0	NM	0.24	-20
	09/30/08	6.36	687	17.1	NM	0.07	-84
	03/25/09	6.33	763	11.7	NM	0.31	-7
	09/30/09	6.47	273	17.0	NM	0.13	30
	03/29/10	6.53	639	12.4	15.0	0.58	18
	04/07/10	NM	720	NM	2.0	NM	NM
	04/16/10	6.67	682	14.2	9.0	0.49	24
	05/06/10	6.56	722	13.9	6.0	0.31	25
	06/09/10	6.52	753	15.7	4.0	0.20	22
	09/30/10	6.58	695	17.2	NM	0.14	17
MW-14	12/04/03	6.80	207	13.5	8.2	0.22	44
	03/16/04	6.52	294	13.6	1.6	0.57	-9
	06/10/04	6.68	274	14.4	NM	0.55	-3
	09/24/04	6.97	343	14.5	NM	0.21	155
	04/05/05	6.84	369	13.8	NM	0.85	21

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	09/21/05	6.71	495	15.1	NM	0.56	11
	03/14/06	6.92	341	13.5	4.9	0.05	NM
	09/13/06	6.81	396	15.7	NM	0.23	33
	04/04/07	6.64	393	14.5	0.8	0.21	-32
	09/26/07	6.56	358	14.8	2.2	0.26	-184
	05/02/08	6.28	412	12.7	NM	0.50	-27
	09/30/08	6.41	425	13.9	NM	0.35	-75
	03/23/09	6.23	498	11.4	NM	0.27	-28
	09/29/09	6.58	60[a]	14.2	NM	6.6[a]	24
	03/30/10	6.58	360	13.2	NM	0.73	15
	09/30/10	6.72	555	17.4	NM	0.34	18
MW-15	12/04/03	7.00	259	13.2	9.1	0.18	48
	03/16/04	6.92	290	13.4	2.8	0.39	-25
	06/10/04	6.66	297	14.1	NM	0.56	-17
	09/24/04	6.68	311	14.9	NM	0.21	74
	04/05/05	6.79	370	13.8	NM	0.70	15
	09/21/05	6.91	682	16.4	NM	0.56	-9
	03/14/06	6.80	334	13.7	NM	< 0.01	NM
	09/13/06	6.77	367	15.3	NM	0.50	55
	04/04/07	6.71	396	14.2	1.2	0.06	-39
	09/26/07	6.51	390	15.4	NM	0.01	-205
	05/02/08	6.30	491	13.7	NM	0.21	-24
	09/29/08	6.47	499	18.5	NM	2.86	-97
	03/26/09	6.66	519	12.0	NM	0.23	-13
	09/29/09	6.52	59[a]	15.3	NM	7.7[a]	25
	03/30/10	6.61	409	13.3	NM	0.77	14
	09/30/10	6.57	506	17.0	NM	0.38	19
MW-16	12/05/03	6.35	385	12.7	6.1	0.59	19
	03/16/04	6.42	370	12.7	7.2	0.39	-14
	06/10/04	6.36	366	14.4	NM	0.54	-5
	09/23/04	6.50	488	14.0	NM	0.24	27
	04/05/05	6.56	645	13.0	NM	1.09	38
	09/21/05	6.48	555	14.6	NM	0.47	21
	03/15/06	6.91	569	12.4	2.1	< 0.01	NM
	09/13/06	6.58	459	14.0	NM	0.19	68
	04/05/07	6.46	659	12.7	1.0	< 0.01	-62
	09/26/07	6.52	621	15.8	1.6	0.43	-202
	05/02/08	6.13	790	12.8	NM	0.18	0
	10/01/08	6.35	820	14.6	NM	0.17	-57
	03/25/09	6.09	892	11.5	NM	0.32	-36
	09/30/09	6.41	254	13.7	NM	0.16	32
	04/02/10	6.45	691	11.5	NM	0.59	24
	10/10/10	6.62	801	14.2	NM	0.39	21
MW-17	12/04/03	6.59	384	12.0	5.7	0.51	93

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^oC)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/15/04	6.32	619	12.3	7.1	0.78	-24
	06/10/04	6.41	489	13.1	NM	0.68	-12
	09/23/04	6.42	521	13.4	NM	0.01	10
	04/05/05	6.60	920	12.6	NM	0.97	30
	09/21/05	6.52	882	13.6	NM	0.31	16
	03/15/06	6.92	804	11.4	2.7	0.73	NM
	09/12/06	6.27	908	16.7	NM	0.14	-1
	04/03/07	6.24	766	11.7	1.9	0.65	96
	09/24/07	6.45	922	13.9	2.1	0.40	-175
	05/01/08	6.27	1,286	12.3	NM	0.24	105
	09/29/08	6.46	967	14.9	NM	4.61	-98
	03/24/09	6.12	1,282	11.9	NM	0.42	-22
	09/30/09	6.52	152	12.9	NM	0.31	27
	03/30/10	6.37	667	10.1	NM	1.28	12
	10/01/10	6.68	1,111	14.2	NM	0.31	23
MW-18	12/04/03	6.54	308	13.0	8.1	0.33	21
	03/16/04	6.46	363	12.4	19.4	0.36	-14
	06/10/04	6.41	415	13.8	NM	0.66	-3
	09/23/04	6.31	373	15.3	NM	0.01	7
	04/05/05	6.94	463	12.9	NM	0.83	18
	09/20/05	6.84	183	17.3	NM	0.72	21
	03/15/06	6.68	430	12.3	2.5	0.22	NM
	09/12/06	6.07	519	17.0	NM	0.42	NM
	04/03/07	6.50	464	14.5	2.7	< 0.01	48
	09/24/07	6.57	566	15.5	2.1	0.41	-152
	05/01/08	6.32	637	12.6	NM	0.38	-43
	10/01/08	6.46	599	15.6	NM	0.12	-53
	03/24/09	6.20	626	12.3	NM	0.42	-29
	09/30/09	6.53	190	15.0	NM	0.38	26
	03/30/10	6.62	494	12.0	NM	1.57	13
	09/28/10	6.68	616	16.6	NM	0.24	21
MW-19	03/16/04	6.49	403	13.2	12.0	0.38	-23
	06/10/04	6.31	379	14.5	NM	0.89	-15
	09/23/04	6.66	368	15.4	NM	0.26	5
	04/05/05	6.87	571	14.2	NM	0.39	-21
	09/21/05	6.80	636	15.7	NM	0.44	31
	03/15/06	6.78	510	12.6	3.7	0.14	NM
	09/12/06	6.40	563	18.1	NM	0.18	-22
	04/03/07	6.05	505	13.9	3.9	0.21	40
	09/24/07	6.31	317	15.6	3.4	0.41	-218
	05/02/08	6.32	698	13.5	NM	0.23	-32
	10/01/08	6.48	573	18.0	NM	0.10	-83
	03/23/09	6.23	610	12.6	NM	0.34	-71
	09/29/09	6.54	29[a]	15.3	NM	7.5[a]	29

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (^{o}C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
	03/30/10	6.33	528	11.9	NM	0.98	14
	09/28/10	6.53	722	16.4	NM	0.36	29
MW-20	07/28/05	7.01	1,053	14.7	10.8	NM	NM
	09/20/05	6.71	957	15.1	NM	0.42	45
	03/15/06	6.82	861	12.7	3.2	< 0.01	NM
	09/12/06	6.32	958	17.1	NM	0.39	-64
	04/05/07	6.54	972	14.1	5.0	< 0.01	-70
	09/26/07	6.34	961	15.1	NM	0.20	-169
	05/02/08	6.27	1,037	13.1	NM	0.21	-42
	09/29/08	6.41	1,130	18.9	NM	2.48	-125
	03/23/09	6.18	1,235	12.8	NM	0.37	-39
	09/30/09	6.58	119[a]	14.4	NM	0.22	27
	03/29/10	6.33	922	13.2	NM	0.48	17
	10/01/10	6.69	1,013	15.8	NM	0.40	21
MW-21	09/14/06	6.65	624	14.9	NM	0.34	85
	04/04/07	6.68	657	13.3	14.9	< 0.01	-47
	09/25/07	6.58	636	14.7	12.2	0.06	-231
	05/02/08	6.28	746	13.8	NM	0.25	-29
	09/30/08	6.35	788	15.6	NM	0.12	-79
	03/25/09	6.46	687	11.6	NM	0.32	6
	09/30/09	6.46	310	14.6	NM	0.08	30
	03/26/10	6.31	664	13.2	10.0	0.68	19
	04/16/10	6.54	702	13.6	19.0	0.90	22
	05/06/10	6.50	716	13.9	30.0	0.20	29
	06/09/10	6.21	741	15.0	131.0	0.16	38
	09/30/10	5.90	965	16.9	NM	0.34	56
MW-22	09/14/06	6.40	581	14.0	NM	0.62	121
	04/04/07	5.92	525	12.4	8.2	0.04	-40
	09/26/07	6.40	621	15.0	9.2	0.07	-178
	05/02/08	6.11	774	12.7	NM	0.19	-7.4
	10/01/08	6.32	815	13.9	NM	0.19	-74
	03/25/09	6.25	824	11.3	NM	0.26	-26
	09/30/09	6.39	287	14.9	NM	0.09	34
	03/29/10	6.20	665	12.0	NM	0.85	22
	09/30/10	6.57	821	17.6	NM	0.56	13
MW-23	09/13/06	6.07	433	16.2	NM	0.52	122
	04/04/07	6.04	414	12.6	63.9	0.65	185
	09/25/07	6.47	432	15.9	31.2	0.49	1.1
	05/01/08	6.24	552	13.8	NM	0.29	38
	10/01/08	6.40	458	17.7	NM	0.13	46
	03/24/09	6.08	487	11.8	NM	0.41	90
	09/29/09	6.48	170	16.8	NM	0.75	29
	04/01/10	6.57	428	13.0	NM	0.66	16
	09/28/10	6.67	495	19.0	NM	0.19	19

Table D1
Historical Groundwater Field Parameters
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date collected	pH	Specific Conductance (mS/cm)	Temperature (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
MW-24	03/26/10	6.39	651	13.4	153.0	0.31	17
	04/16/10	6.59	671	14.0	13.0	0.36	21
	05/06/10	6.47	670	15.1	2.0	0.20	28
	06/09/10	6.52	799	15.9	10.0	0.19	24
MW-25	03/29/10	6.56	703	12.2	57.0	0.67	12
	04/07/10	NM	720	NM	2.0	NM	NM
	04/16/10	6.51	687	14.2	2.0	0.22	24
	05/06/10	6.62	744	14.0	2.0	0.31	26
	06/09/10	6.52	896	15.8	7.0	0.27	25
MW-26	04/01/10	6.44	269	12.7	34.0	0.74	19
	04/09/10	NM	290	NM	4.0	NM	NM
	04/16/10	6.49	270	13.6	21.0	0.19	23
	05/06/10	6.67	218	12.6	18.0	0.31	28
	06/09/10	6.47	207	14.9	41.7	0.76	28
P-1	09/24/04	6.54	401	15.4	NM	0.24	33
INJ-1	07/09/01	6.39	703	14.2	47.8	1.55	-18
INJ-2	07/09/01	6.45	384	15.1	61.9	1.20	17
	06/11/02	6.49	950	15.6	13.8	0.23	NM
	06/10/03	6.38	381	14.5	10.4	0.25	NM
INJ-3	07/09/01	6.37	407	14.2	30.1	1.51	17
	06/11/02	6.59	1,971	15.1	13.8	0.11	NM
	12/17/02	6.27	417	13.4	12.3	0.11	NM
	06/10/03	6.50	634	14.2	23.8	0.21	NM

Notes:
mS/cm - millisiemens per centimeter
ºC - degrees Celsius
NTU - Nephelometric turbidity units
mg/L - milligram per liter
mV - millivolts
NM - not measured
[a] *Likely meter malfunction*
[b] *Anomalous result*

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
Shallow On-Site Monitoring Wells																		
MW-1	04/17/95	710	53	NA	25 U	25 U	25 U	560	25 U	1400	1,300	29	180	540	150	2,900	3,600	120
	04/17/95 (DUP)	770	65	NA	25 U	25 U	25 U	610	25 U	1600	1,500	31	230	640	180	3,100	3,900	130
	09/04/96	1,300	50 U	200 U	50 U	50 U	50 U	220	50 U	700	1,300	100 U	50 U	180	50 U	1,600	4,400	82
	12/10/96	1,400 J	67 J	210 J	1.5 J	0.5 U	7.7 J	120 J	5.1 J	2700 J	1,600 J	9 JB	31 J	1,200 J	62 J	3,500 J	6,300 J	91 J
	03/04/97	640 J	24 J	210 EJ	1.2 J	0.5 UJ	5.3 J	73 J	2.1 J	1000 J	1,600 J	5 JB	66 J	420 J	68 J	4,700 J	7,100 J	80 J
	06/27/97	900	21	200	5 U	5 U	8.0	200	5 U	860	2,000	10 U	34	290	26	3,000	7,400	120
	09/04/97	790	7.6	2 U	0.5 U	0.5 U	7.5	150	0.9	350	1,500	2.9	12	74	12	1,500	4,200	52
	12/04/97	540 J	27 J	97 J	0.8 J	0.5 UJ	4.5 J	31 J	2.4 J	320 J	1,800 J	3 JB	22 J	250 J	20 J	4,700 J	7,000 J	38 J
	03/06/98	420	9	110	5 U	5 U	8.0	320	5 U	340	1,500	10 U	10	160	7	1,600	4,400	50
	03/06/98 (DUP)	400	10	120	5 U	5 U	8.0	380	5 U	400	1,500	10 U	8	190	8	1,500	4,300	56
	06/18/98	420	16	190	10 U	10 U	10 U	120	10 U	450	1,700	20 U	14	400	10	2,900	6,700	120
	09/29/98	330 J	2 UJ	81 J	2 UJ	2 UJ	7 J	300 J	2 UJ	94 J	1,800 J	5 UJ	2 UJ	46 J	2 J	1,400 J	5,400 J	14 J
	12/15/98	330	14	110	5 U	5 U	6	190	5 U	390	1,600	10 U	6	270	6	2,000	4,600	54
	03/02/99	320	11	94	5 U	5 U	5	390	5 U	490	1,700	10 U	6	220	7	1,600 B	5,970	73
	06/17/99	230	50 U	200 U	50 U	50 U	50 U	140	50 U	400	1,400	500 U	50 U	270	50 U	2,500	6,000	180
	09/17/99	250	6.4	110	0.2 U	0.2 U	4 E	200	0.2 U	210	1,400	0.3 U	7.8 B	240	8.9	1,500	4,100	88
	12/08/99	310	12 U	130	12 U	12 U	12 U	79 J	12 U	330	1,300 J	25 U	12 UJ	240	12 UJ	860 J	5,500 J	110
	03/07/00	310	17	220	2 U	2 U	2 U	22	2 U	1,100	970	5 U	14	300	17	1,100	4,310	450
	06/21/00	290	9 J	260	6 U	7 U	6 U	32	5 U	380	860	50 J	10 J	390	10 J	1,300	3,700	290
	06/21/00 (DUP)	210	7 J	170	3 U	4 U	3 U	58	3 U	340	860	20 J	10 J	310	10 J	1,300	3,420	290
	09/12/00	190	5	91	1 U	1 U	3	110	2	170	1,100	5 U	4	180	8	980	3,730	61
	12/07/00	310	20 J	130	6 U	7 U	6 U	42 J	9 J	390	830	10 U	10 J	270	10 J	630	3,290	100
	12/07/00 (DUP)	260	10 J	120	6 U	7 U	6 U	76 J	8 J	300	890	10 U	10 J	250	9 J	480	3,330	79
	03/15/01	350 J	27	190	2 U	2 U	2 U	13	31	500	690	12	14 J	480 J	23	290	2,890	110 J
	03/15/01 (DUP)	450	35	230	2 U	2 U	2 U	13	43	620	740	13	20	610	27	320	2,830	150
	07/12/01	370	16	120	2.9 U	3.1 U	2.7 U	12 J	21	290	480	9.5 J	8.8 J	610	31	130	1,930	210
	09/25/01	790	23	NA	5 U	5 U	5 U	17	18	460	480	10	16	480	41	320	1,970	240
	01/02/02	660	30	130	0.57 U	0.62 U	0.5 U	27	22	690	570	2.2 J	9.1	510	22	270	2,300	300
	03/28/02	540	25	160	0.57 U	0.62 U	0.75 J	18	28	800	690	2.8 J	14	510	25	240	2,620	390
	06/11/02	250	5.5	160	0.57 U	0.62 U	1 U	12	10	240	500	1.0 J	6.4	230	7.8	170	1,570	270
	09/18/02	130	2.3 J	70	0.57 U	0.62 U	2.0 J	81	1.7 J	100	880	2.5 J	3.8	44	7.2	58	2,840	35
	12/17/02	560	22	130	1.3 U	1.30 U	1.3 U	7.8	4.3 B	340	520	5 U	10	600	25	80	1,030	100
	03/20/03	490	16	110	0.5 U	0.5 U	0.5 U	7.5	3.2	160	380	2 U	7.3	440	15	69	940	120
	06/11/03	270	5.4	120	0.12 U	0.13 U	0.35 J	4.4	1.3	64	330	1.0 J	4.2	260	6.7	200	730	60
	09/11/03	610	12	93	0.23 U	0.25 U	0.82 JB	19	1.3	170	510	2.9 J	5	290	15	1,200	1,480	71
	12/04/03	1,300	36	120	2.0	0.31 U	0.8 J	38	9	390	370	8.6	7.6	1,200	29	360	1,170	140
	03/16/04	410	11	110	2.1	0.5 U	0.56 J	14	5.3	66	390	5.4 J	5.8	370	13	520	1,590	50
	09/23/04	790	15	60	1.1 J	0.31 U	0.90 J	31	1.7	200	320	3.7 J	4.2	410	16	850	1,440	60
	04/05/05	350	12	45	0.85 J	0.7 U	0.85 J	22	50	120	290	11	7.4	540	23	1,500	900	26
	09/21/05	590	6.3	33	0.25 J	0.14 U	0.86	30	3.4	65	260	2.2	2.1	130	8	1,100	1,100	24
	03/15/06	580	6.5	60	0.35 J	0.35 U	0.73 J	44	8.5	55	300	9.6	3.9	240	15	710	1,680	24
	09/14/06	830	6.4	37	0.33 J	0.35 U	0.78 J	71	8.0	49	200	5.6	3.1	160	7.6	62	1,590	21
	04/04/07	240	4.9	47	0.57 U	0.7 U	0.68 U	17	8.9	44	400	6.6 J	3.6	210	9.3	69	2,080	12
	09/25/07	300	4.4	34	0.57 U	0.7 U	1.0 J	100	3.3	49	290	3.5 J	2.7	150	8.9	1,500	1,360	8.5
	09/25/07	300	4.4	34	0.57 U	0.7 U	1.0 J	100	3.3	49	290	3.5 J	2.7	150	8.9	1,500	1,360	8.5
	05/02/08	250	6.3	29	0.11 J	0.042 U	0.65	25	5.3	48	180	3.5	3.0	220	8.7	290	1,010	12
	09/30/08	320	4.3	27	0.19 U	0.11 U	0.63 J	60	2.7	37	170	3.4 J	2.3	130	7.1	300	910	10
	03/25/09	240	4.0	27	0.50 U	0.50 U	3.2	60	4.0	22	140	0.5 U	3.8	109	7.1	43	740	10
	09/30/09	500	12	14	5.0 U	5.0 U	5.0 U	86	4.5 J	38	180	5.0 U	1.7 J	190	5.6 J	610	1,400	14
	03/29/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	9.6 J	20 U	15	48	0.5 U	0.5 U	63	7.8 J	27	170	4.4
	09/30/10	339	0.5 U	18.1	0.5 U	0.5 U	0.5 U	46.5	1.0 U	28.3	70.2	1.41 J	0.5 U	173	3.16	144	301	9.51
MW-2	04/17/95	5 U	5 U	NA	5 U	5 U	5 U	10 U	9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U
	09/04/96	0.8	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.2	0.5 U	2.0 U	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U
	12/10/96	0.6	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0	0.5 U	1.0 U	4.3	0.5 U	2.5	0.5 U	0.5 U	0.5 U
	03/04/97	0.8	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.4	0.5 U	1.0 U	1.6	0.5 U	2.6	0.5 U	0.5 U	0.5 U
	06/27/97	1.0	0.5 U	2 U	0.5 U	0.5 U	2.1	0.5 U	0.5 U	7.2	0.5 U	1.0 U	1.9	0.5 U	2.1	0.5 U	0.5 U	0.5 U
	09/04/97	0.8	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.1	0.5 U	1.0 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	0.5 U
	12/04/97	0.6	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.8	0.5 U	1.0 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	03/06/98	0.8	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.9	0.5 U	1.0 U	2.5	0.5 U	2.8	0.5 U	0.5 U	0.5 U
	06/18/98	0.9	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.8	0.5 U	1.0 U	1.8	0.5 U	2.0	0.5 U	0.5 U	0.5 U
	09/29/98	1.1	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.9	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	12/15/98	1.0	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5.7	0.5 U	1.0 U	0.7	0.5 U	1.7	0.5 U	0.5 U	0.5 U
	03/02/99	0.9	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	8.5	0.5 U	1.0 U	2.2	0.5 U	1.5	0.5 U	0.5 U	0.5 U
	06/16/99	0.6	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.3	0.5 U	5.0 U	3.4	0.5 U	1.5	0.5 U	0.5 U	0.5 U
	06/16/99 (DUP)	0.7	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.4	0.5 U	5.0 U	2.8	0.5 U	1.4	0.5 U	0.5 U	0.5 U
	09/16/99	0.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.5	0.2 U	0.3 U	0.3 EB	0.3 U	0.3 U	0.2 U	0.4 U	0.3 U
	12/08/99	0.9	0.2 U	2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	4.4	0.5 U	1.0 U	0.5 U	0.5 U	1.1	0.5 U	0.5 U	0.5 U
MW-2 (continued)	03/07/00	0.8	0.2 U	2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	3.6	0.5 U	1.0 U	3.7	0.5 U	1.2	0.5 U	0.5 U	0.5 U
	06/21/00	0.67	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	3.3	0.1 U	0.2 U	3.2	0.2 U	2.4	0.1 U	0.2 U	0.3 U
	09/12/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.00 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
	12/07/00	1.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	1.5	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U	0.4 J

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	**5,100,000**	**3,350,000**	**LNAPL**	**8,690,000**		**0.8**	**LNAPL**	**8,200,000**	**3,500,000**	**LNAPL**	**20,000,000**	**200,000**	**720,000**	**1,100,000**	**1,000**	**LNAPL**	**LNAPL**
	Final Cleanup Levels	**800**	**7.0**	**400**	**0.5**	**0.64**	**0.8**	**-**	**7.2**	**70**	**700**	**5.0**	**0.86**	**200**	**4.0**	**1,000**	**1,600**	**0.5**
	03/15/01	**1.2 J**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	**1.3**	0.1 U	**0.20 J**	**1.0 J**	0.2 U	**0.5 J**	**0.2 J**	0.2 U	**0.68**
	07/12/01	**1.0**	0.12 U	0.15 U	0.12 U	0.1 U	0.11 U	0.18 U	0.096 U	**2.0**	0.098 U	0.20 U	0.1 U	0.12 U	**0.14 J**	**0.13 J**	0.19 U	**0.44 J**
	09/25/01	**2.1**	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.67**	1.0 U	0.5 U	0.5 U	0.5 U	**0.57**	**2.1**	**0.75**
	01/03/02	**1.1**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.7**	0.098 U	0.20 U	**1.5**	0.12 U	**0.57**	**0.4 JB**	0.19 U	**1.0**
	03/28/02	**1.0**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.8**	0.13 U	0.20 U	**1.7**	0.12 U	**1.0**	0.1 U	0.22 U	**0.79**
	06/14/02	**0.71**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.5**	0.13 U	0.20 U	**1.5**	0.12 U	**1.1**	0.1 U	0.22 U	**0.59**
	09/18/02	**1.2**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.3**	0.13 U	0.20 U	0.1 U	0.12 U	0.12 U	0.1 U	0.22 U	**0.79**
	12/16/02	**1.2**	0.50 U	2.0 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	**1.1**	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	**1.4**
	03/20/03	**0.86**	0.50 U	2.0 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	**1.0**	0.5 U	2.0 U	**0.6**	0.5 U	0.5 U	0.5 U	0.50 U	**1.0**
	06/11/03	**0.88**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.1**	0.13 U	0.2 U	0.1 U	0.12 U	**0.22 J**	**0.8 B**	0.22 U	**1.2**
	09/10/03	**1.3**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.75**	0.13 U	0.2 U	0.1 U	0.12 U	0.12 U	**0.3 B**	0.22 U	**0.69**
	12/05/03	**1.0**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.5**	0.13 U	0.2 U	0.1 U	0.12 U	**0.13 J**	0.1 U	0.22 U	**0.89**
	03/16/04	**0.7**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.3**	0.13 U	0.2 U	**2.2**	0.12 U	**0.59**	**0.1 J**	0.22 U	**0.75**
	09/24/04	**0.79**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.61**	0.13 U	0.2 U	0.1 U	0.12 U	**0.16 J**	0.1 U	0.22 U	**0.8**
	04/05/05	**0.8**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.82**	0.13 U	0.2 U	**1.0**	0.12 U	**0.32 J**	**0.2 J**	0.22 U	**0.71**
	09/21/05	**0.79**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.57**	0.13 U	0.2 U	0.1 U	0.12 U	**0.24 J**	**0.2 J**	0.22 U	**0.77**
	03/15/06	**0.27 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.93**	0.13 U	0.2 U	**4.4**	0.12 U	**0.97**	0.1 U	0.22 U	**0.37 J**
	09/13/06	**0.98**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**1.2**	0.13 U	0.2 U	0.1 U	0.12 U	0.14 U	0.1 U	0.22 U	**0.60**
	04/04/07	**0.2 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**1.1**	0.13 U	0.2 U	**3.9**	0.12 U	**0.77**	0.1 U	0.22 U	**0.22 J**
	09/26/07	**0.86**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.8**	0.13 U	0.2 U	0.1 U	0.12 U	0.14 U	0.1 U	0.22 U	**0.37 J**
	05/02/08	**0.65**	0.10 U	0.04 U	0.073 U	0.042 U	**0.06 J**	0.13 U	0.042 U	**0.55**	0.042 U	0.23 U	**0.36 J**	0.05 U	**0.18 J**	**0.2 JB**	**0.16 J**	**0.51**
	09/29/08	**0.61**	0.10 U	0.04 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	**0.71**	0.042 U	0.23 U	0.1 U	0.05 U	**0.10 J**	**0.2 JB**	**0.13 J**	**0.44 J**
	03/26/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2**
	09/29/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6 J**
	03/29/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**
	03/29/10 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**
	09/30/10	**0.61**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.07**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-3	04/17/95	**230**	5 U	NA U	5.0 U	5.0 U	5.0 U	**30**	5.0 U	**42**	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
	09/04/96	**330**	5 U	20 U	5.0 U	5.0 U	5.0 U	**9**	5.0 U	**56**	5.0 U	10 U	5.0 U	5.0 U	**5.0**	**5.0**	5.0 U	5 U
	9/4/96 (DUP)	**460**	5 U	20 U	5.0 U	5.0 U	5.0 U	**13**	5.0 U	**7.2**	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5
	12/11/96	**120**	0.5 U	2 U	0.5 U	0.5 U	**0.5**	**4**	0.5 U	**9.7**	0.5 U	**2 B**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**
	03/04/97	**73**	0.5 U	2 U	0.5 U	0.5 U	**0.5**	**4.5**	0.5 U	**5.8**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**
	06/27/97	**140 J**	0.5 U	2 U	0.5 U	0.5 U	**0.5**	**18**	0.5 U	**17**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2**
	09/04/97	**190**	0.5 U	2 U	0.5 U	0.5 U	**0.6**	**1.4**	0.5 U	**25**	**0.6**	1 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.7**	**2.5**
	12/04/97	**48**	0.5 U	2 U	0.5 U	0.5 U	**0.5**	**1.8**	0.5 U	**2.1**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	03/06/98	**100**	0.5 U	2 U	0.5 U	0.5 U	**0.6**	**3.6**	0.5 U	**8.6**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**0.6**	0.5 U	**0.9**
	06/18/98	**38**	0.5 U	2 U	0.5 U	0.5 U	**0.7 B**	**3.1**	0.5 U	**1.8**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**
	09/29/98	**160**	0.5 U	2 U	0.5 U	0.5 U	**0.5**	**0.7**	0.5 U	**14**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.1**
	9/29/98 (DUP)	**200**	0.5 U	2 U	0.5 U	0.5 U	1 U	**1.6**	0.5 U	**18**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.5**
	12/14/98	**37**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**5.8**	0.5 U	**1.5**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.5**
	03/03/99	**47**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**11**	0.5 U	**4.1**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1**
	06/17/99	**66**	1.0 U	4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.0**	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
	09/17/99	**97 J**	0.2 U	0.2 U	0.2 U	0.2 U	**0.4 E**	**0.8**	0.2 U	**6.5**	0.2 U	0.3 U	0.2 U	0.3 U	0.3 U	0.2 U	0.4 U	**0.6**
	12/08/99	**26**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**7.9**	0.5 U	**1.1**	0.5 U	1 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**
	03/07/00	**33**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**17**	0.5 U	**1.7**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**
	06/21/00	**24**	0.2 U	0.2 U	0.2 U	0.2 U	**0.5 J**	0.2 U	0.1 U	**1.3**	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	**0.4 J**
	09/12/00	**54**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2**	1.0 U	**3.0**	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1 U
	9/12/00 (DUP)	**61**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2**	1.0 U	**3.0**	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1 U
	12/07/00	**26**	0.2 U	0.2 U	0.2 U	0.2 U	**0.4 J**	0.2 U	0.1 U	**1.7**	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.2 U	**0.3 J**
	03/15/01	**46 J**	0.2 U	0.2 U	0.2 U	0.2 U	**0.4 J**	0.2 U	0.1 U	**2.3**	0.1 U	**0.2 J**	0.2 U	0.2 U	0.2 U	**0.1 J**	0.2 U	**0.6**
	07/12/01	**27**	0.1 U	0.15 U	0.12 U	0.13 U	**0.43 J**	0.2 U	0.1 U	**1.9**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.31 J**	0.19 U	**0.31 J**
	09/24/01	**37**	0.5 U	NA U	0.50 U	0.50 U	**0.51**	0.5 U	0.5 U	**3.0**	0.5 U	1 U	0.5 U	0.50 U	0.50 U	0.5 U	0.59 U	0.5 U
	01/03/02	**16**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	**0.47 J**	0.10 U	**1.0**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.46 JB**	0.19 U	**0.25 J**
	03/28/02	**22**	0.12 U	0.15 U	0.12 U	0.13 U	**0.41 J**	0.23 U	0.10 U	**1.4**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.16 J**	0.22 U	**0.26 J**
	06/14/02	**19**	0.12 U	0.15 U	0.12 U	0.13 U	**0.35 J**	0.23 U	0.10 U	**1.3**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	**0.25 J**
	09/17/02	**27**	0.12 U	0.15 U	0.12 U	0.13 U	**0.43 J**	0.23 U	0.10 U	**2.1**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	**0.32 J**
	12/17/02	**38**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**18**	0.5 U	**0.9**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.58**
	03/20/03	**12**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	06/11/03	**9.5**	0.12 U	0.15 U	0.12 U	0.13 U	**0.41 J**	0.23 U	0.096 U	**0.9**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.47 JB**	0.22 U	**0.25 J**
	09/11/03	**9.9**	0.12 U	0.15 U	0.12 U	0.13 U	**0.41 JB**	0.23 U	0.096 U	**0.9**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.32 JB**	0.22 U	**0.27 J**
	12/04/03	**19**	0.12 U	0.15 U	0.12 U	0.13 U	**0.35 J**	**19**	0.096 U	**1.0**	0.13 U	**0.27 J**	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	**0.46 J**
	03/15/04	**16**	0.12 U	0.15 U	0.12 U	0.13 U	**0.48 J**	0.23 U	0.096 U	**1.5**	**0.29 J**	0.20 U	0.11 U	0.12 U	0.12 U	**0.17 J**	**2.4**	**0.36 J**
	09/24/04	**9.9**	0.12 U	0.15 U	0.12 U	0.13 U	**0.43 J**	0.23 U	0.096 U	**1.5**	0.13 U	0.20 U	0.11 U	0.12 U	0.12 U	**0.15 J**	0.22 U	**0.31 J**
	04/05/05	**9.1**	0.13 U	0.15 U	0.12 U	0.14 U	**0.33 J**	0.23 U	0.14 U	**0.9**	0.13 U	0.20 U	0.13 U	0.12 U	0.14 U	**0.82** U	0.22 U	**0.29 J**
	09/21/05	**10**	0.13 U	0.15 U	0.12 U	0.14 U	**0.44 J**	0.23 U	0.14 U	**1.6**	0.13 U	0.20 U	0.13 U	0.12 U	0.14 U	**0.34 J**	0.22 U	**0.27 J**
	03/14/06	**12**	0.13 U	0.15 U	0.12 U	0.14 U	**0.36 J**	0.23 U	0.14 U	**1.2**	0.13 U	0.20 U	0.13 U	0.12 U	0.14 U	**0.15 J**	0.22 U	**0.31 J**
	09/12/06	**27**	0.13 U	0.15 U	0.12 U	0.14 U	**0.39 J**	0.23 U	0.14 U	**2.7**	0.13 U	0.20 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.42 J**
	04/03/07	**7.7**	0.13 U	0.15 U	0.12 U	0.14 U	**0.31 J**	0.23 U	0.14 U	**1.0**	0.13 U	0.20 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.23 J**
	09/25/07	**18**	0.13 U	0.15 U	0.12 U	0.14 U	**0.37 J**	0.23 U	0.14 U	**2.1**	0.13 U	0.20 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.28 J**
MW-3 (continued)	05/01/08	**4.6**	0.10 U	0.037 U	0.07 U	0.04 U	**0.34 J**	0.13 U	0.042 U	**0.8**	0.042 U	0.23 U	0.077 U	0.05 U	0.06 U	**0.34 JB**	**0.12 J**	**0.25 J**
	10/01/08	**11**	0.10 U	0.037 U	0.07 U	0.04 U	**0.36 J**	0.13 U	0.042 U	**1.8**	0.042 U	0.23 U	0.077 U	0.05 U	0.06 U	**0.18 JB**	**0.08 J**	**0.28 J**
	03/24/09	**8.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.1**
	09/29/09	**15**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8 J**
	03/30/10	**16**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3**

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	09/28/10	**8.47**	0.5 U	0.5 U	0.5 U	0.5 U	**0.33 J**	0.5 U	1.0 U	**1.49**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-4	09/04/96	**76**	50 U	200 U	50 U	50 U	50 U	**830**	50 U	50 U	**200**	100 U	50 U	50 U	50 U	**2,000**	**1,500**	50 U
	12/10/96	**33**	0.5 U	**110 E**	**2.6**	0.5 U	**38**	**950**	0.5 U	**2.1**	**430**	**7 B**	0.5 U	0.5 U	0.5 U	**310**	**340**	**6.1**
	03/04/97	**140**	0.5 U	**170**	**1.9**	0.5 U	**29**	**1,100**	0.5 U	**12**	**580**	**7**	0.5 U	**4.8**	**1**	**160**	**210**	**15.0**
	06/27/97	**160**	0.5 U	**230**	**1.2**	0.5 U	**31**	**2,000**	0.5 U	**2.8**	**900**	**9.6**	0.5 U	**2.6**	**2**	**62**	**53**	**6.3**
	09/04/97	**52**	0.5 U	2 U	**1.4**	0.5 U	**23**	**820**	0.5 U	**2.5**	**570**	**7**	0.5 U	0.5 U	**0.8**	**120**	**42**	**6.9**
	09/04/97 (DUP)	**47**	0.5 U	**510**	**1.5**	0.5 U	**22**	**2,100**	0.5 U	0.5 U	**1,300**	**7.1**	0.5 U	0.5 U	**0.7**	**300**	**110**	**6.5**
	12/04/97	**22 J**	0.5 UJ	**180 J**	**1.3 J**	0.5 UJ	**23 J**	**960 J**	0.5 UJ	**1.2 J**	**860 J**	**7 J**	0.5 UJ	0.5 UJ	**1 J**	**320 J**	**250 J**	**3.4 J**
	03/06/98	**84**	1 U	**220**	1 U	1 U	**29**	**1,400**	1 U	**4**	**970**	**10**	1 U	**11**	**1**	**48**	**140**	**8.0**
	06/18/98	**410**	12 U	**260**	12 U	12 U	**140**	**1,700**	12 U	12 U	**1,200**	**45**	12 U	12 U	12 U	**390**	**1,800**	12 U
	09/29/98	**33 J**	2 U	**240 J**	2 U	2 U	**23 J**	**1,000 J**	2 U	2 U	**780 J**	**8 J**	2 U	2 U	2 U	**1,600 J**	**1,300 J**	2 U
	12/14/98	**26**	2 U	**250**	2 U	2 U	**37**	**1,000**	2 U	2 U	**840**	**7**	2 U	2 U	2 U	**1,100**	**1,900**	2 U
	03/03/99	**72**	2 U	**110**	2 U	2 U	**18**	**1,300**	4 U	**6**	**790**	**9**	2 U	2 U	2 U	**8 B**	**13 B**	**8**
	06/17/99	**210**	25 U	**240**	25 U	25 U	25 U	**1,200**	25 U	25 U	**1,200**	250 U	25 U	25 U	25 U	**110**	**142**	25 U
	09/17/99	**36**	0.2 U	**220**	0.2 U	0.2 U	**18**	**820 J**	0.2 U	**1.4 E**	**850 J**	**9**	0.2 U	0.3 U	0.3 U	**540**	**1,230**	0 U
	12/08/99	**19**	5 U	**270**	5 U	5 U	**24**	**1,000 J**	5 U	5 U	**980 J**	10 U	5 U	5 U	5 UJ	**380 J**	**1,570 J**	5 U
	12/08/99 (DUP)	**20**	5 U	**260**	5 U	5 U	**23**	**1,100 J**	5 U	5 U	**970 J**	10 U	5 U	5 U	5 UJ	**360 J**	**1,560 J**	5 U
	03/07/00	**29**	2 U	**240**	2 U	2 U	**17**	**1,200**	2 U	2 U	**1,200**	**9**	2 U	2 U	2 U	**8**	**389**	2 U
	03/07/00 (DUP)	**28**	2 U	**240**	2 U	2 U	**17**	**1,200**	2 U	2 U	**1,200**	**9**	2 U	2 U	2 U	**8**	**389**	2 U
	06/21/00	**43**	3 U	**230**	3 U	3 U	**17**	**980**	2 U	3 U	**1,100**	**20**	3 U	3 U	3 U	**58**	**1,040**	5 U
	09/12/00	**14**	1.0 U	**140**	1.0 U	1.0 U	**10**	**840**	1.0 U	1.0 U	**610**	**6**	1.0 U	1.0 U	1.0 U	**25**	**820**	**1.0**
	12/07/00	**10 J**	6 U	**230**	6 U	7 U	**10 J**	**750 J**	5 U	6 U	**850**	**10 J**	6 U	6 U	6 U	**32**	**2,540**	20 U
	03/15/01	**23 J**	0.6 U	**210**	**2.0 J**	0.7 U	**19**	**770**	0.5 U	**0.7 J**	**820**	**11**	0.6 U	0.6 U	0.6 U	**37**	**850**	2.0 U
	07/12/01	**43**	3 U	**93**	2.9 U	3.1 U	**14**	**710**	2.4 U	3 U	**960**	**16 J**	2.8 U	2.8 U	3 U	**5 J**	**370**	5.3 U
	09/25/01	**27**	0.5 U	**27**	**0.71**	0.5 U	**6.5**	**340**	0.5 U	**0.74**	**230**	**5.9**	0.5 U	0.5 U	0.5 U	**2.1**	**38**	**3.6**
	01/02/02	**25**	0.6 U	**55**	0.57 U	0.62 U	**10**	**570**	0.48 U	**1.4 J**	**450**	**7.5 J**	0.55 U	0.56 U	**1.2 J**	**5.5**	**164**	**1.6 J**
	03/28/02	**87**	0.6 U	**65**	0.57 U	0.62 U	**12**	**810**	0.48 U	**2.6**	**700**	**13**	0.55 U	0.57 U	**2.3 J**	**18**	**184**	**6.2**
	06/11/02	**58**	0.6 U	**36**	0.57 U	0.62 U	**12**	**760**	0.48 U	0.58 U	**630**	**9.2 J**	**1.6 J**	0.57 U	**1.7 J**	**6.7**	**64**	1.1 U
	09/18/02	**20**	0.3 U	**160**	0.29 U	0.31 U	**11**	**570**	0.24 U	**1.1 J**	**690**	**7.6**	0.28 U	0.29 U	**0.70 J**	**11**	**1,640**	**1.9**
	12/17/02	**18**	1 U	**150**	1.0 U	1.0 U	**14**	**500**	1 U	**1.0**	**620**	**6.2**	1.0 U	1.0 U	1.0 U	**10**	**1,290**	**3.1**
	03/20/03	**13**	1 U	**140**	1.0 U	1.0 U	**16**	**530**	1 U	1.0 U	**740**	**5.3**	1.0 U	1.0 U	1.0 U	**2.3**	**325**	**1.3**
	06/11/03	**24**	0.3 U	**120**	**0.58 J**	0.31 U	**13**	**530**	0.24 U	**1.0 J**	**750**	**7.2**	0.28 U	0.29 U	**0.68 J**	**1.8 B**	**114**	**1.5**
	09/11/03	**18**	0.24 U	**200**	0.23 U	0.25 U	**13**	**460**	0.2 U	**1.1**	**780**	**6.8**	0.22 U	0.23 U	**0.34 J**	**9.3**	**1,990**	**2.3**
	12/04/03	**11**	0.24 U	**180**	0.23 U	0.25 U	**27**	**370**	0.2 U	**0.56 J**	**800**	**4.2**	0.22 U	0.23 U	**0.32 J**	**11**	**1,787**	**0.7 J**
	03/15/04	**15**	0.12 U	**160**	0.12 U	0.13 U	**24**	**420**	0.096 U	**0.67**	**730**	**6.2**	0.11 U	0.12 U	**0.48 J**	**5.6**	**702**	**0.59**
	09/24/04	**12**	0.12 U	**19**	**0.75**	0.13 U	**13**	**270**	0.096 U	**0.56**	**350**	**2.6**	0.11 U	0.12 U	**0.31 J**	**0.8**	**11.3**	**0.78**
	04/04/05	**10**	0.25 U	**170**	**0.86 J**	0.28 U	**21**	**400**	0.28 U	**0.42 J**	**730**	**3.9**	**0.46 J**	0.24 U	**0.34 J**	**3.6**	**690**	**0.66 J**
	09/21/05	**15**	0.13 U	**120**	**0.63**	0.14 U	**17**	**230**	0.14 U	**0.79**	**270**	**3.1**	0.13 U	0.12 U	**0.29 J**	**2.9**	**328**	**0.58**
	03/15/06	**12**	0.13 U	**140**	**0.66**	0.14 U	**20**	**300**	0.14 U	**0.46 J**	**81**	**3.7**	0.13 U	0.12 U	**0.19 J**	**2.1**	**376**	**0.86**
	09/14/06	**10**	0.13 U	**120**	**0.59**	0.14 U	**12**	**190**	0.14 U	**0.51**	**61**	**2.2**	0.13 U	0.12 U	**0.17 J**	**1.4**	**343**	**1.60**
	04/04/07	**7.2**	0.13 U	**140**	**0.49 J**	0.14 U	**17**	**110**	0.14 U	**0.25 J**	**22**	**1.3 J**	0.13 U	0.12 U	**0.15 J**	**0.78**	**151**	**0.09 J**
	09/26/07	**9.0**	0.13 U	**120**	0.85 U	0.14 U	**14**	**85**	0.14 U	**0.31 J**	**62**	**0.62 J**	0.13 U	0.12 U	**0.18 J**	**2.2**	**38.5**	**0.54**
	05/02/08	**4.5**	0.1 U	**100**	0.76 U	0.042 U	**13**	**96**	0.042 U	**0.13 J**	**18**	**0.61 J**	0.077 U	0.05 U	0.16 U	**1.1**	**6.9**	**0.1 J**
	10/01/08	**7.3**	0.1 U	**79**	**0.36**	0.042 U	**11**	**140**	0.042 U	**0.24 J**	**7.8**	**0.82 J**	0.077 U	0.05 U	**0.20 J**	**1.1**	**8.1**	**0.29 J**
	03/25/09	**4.8**	0.5 U	**128**	0.5 U	0.5 U	**11**	**206**	1.0 U	0.5 U	**4.1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.2**	**1.0**
	03/25/09 (DUP)	**4.5**	0.5 U	**120**	0.5 U	0.5 U	**11**	**220**	1.0 U	0.5 U	**3.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.7**	**1.0**
	09/30/09	**6.1**	**3.3**	**210**	0.5 U	0.5 U	**10**	**450**	1.0 U	0.5 U	**8.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**8.0**	**1.1**
	03/29/10	**5.9**	0.5 U	**140**	0.5 U	0.5 U	**10**	**130**	1.0 U	0.5 U	**0.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	**0.2**
	10/01/10	**5.74**	0.5 U	**43.4**	0.5 U	0.5 U	**6.78**	**78.1**	1.0 U	0.5 U	**2.17**	**0.63 J**	0.5 U	0.5 U	0.5 U	**0.53**	**3.80**	**0.19 J**
MW-5	09/04/96	25 U	25 U	100 U	25 U	25 U	25 U	25 U	25 U	**34**	25 U	50 U	**2,600**	25 U	**180**	25 U	25 U	25 U
	12/10/96	**0.7**	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9**	**28**	**1.0**	1 U	**3,400**	**3.4**	**130**	**1.3 B**	**1.6 B**	0.5 U
	12/10/96 (DUP)	**0.8**	**0.6**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9**	**34**	0.5 U	1 U	**3,300**	**3.4**	**130**	0.5 U	0.5 U	0.5 U
	03/04/97	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**21**	0.5 U	1 U	**3,100**	**3.1**	**100**	0.5 U	0.5 U	0.5 U
	06/27/97	5 UJ	5 UJ	20 UJ	5 UJ	5 UJ	5 UJ	5.0 UJ	5 UJ	**32**	5 UJ	10 UJ	**4,700 J**	5 UJ	**140 J**	5 UJ	5 UJ	5.0 UJ
	09/04/97	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**30**	**0.9**	1 U	**4,800**	**3.2**	**150**	0.5 U	**0.9**	0.5 U
	12/04/97	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**18**	1 U	1 U	**4,400**	**3**	**120**	0.5 U	0.5 U	0.5 U
	03/06/98	5 U	5 U	20 U	5 U	5 U	5 U	5.0 U	5 U	**30**	5 U	10 U	**4,000**	5 U	**140**	5 U	5 U	5.0 U
	06/18/98	12 U	12 U	50 U	12 U	12 U	12 U	12 U	12 U	**28**	12 U	25 U	**4,100**	12 U	**130**	12 U	12 U	12 U
	09/29/98	10 U	10 U	40 U	10 U	10 U	10 U	10 U	10 U	**25**	10 U	20 U	**3,800**	10 U	**130**	10 U	10 U	10 U
	12/15/98	5 U	5 U	20 U	5 U	5 U	5 U	5.0 U	5 U	**34**	5 U	10 U	**3,300**	5 U	**120**	5 U	5 U	**7**
	03/02/99	12 U	12 U	50 U	12 U	12 U	12 U	12 U	12 U	**14**	12 U	25 U	**4,400**	12 U	**96**	12 U	24 U	12 U
	06/16/99	10 U	10 U	40 U	10 U	10 U	10 U	10 U	10 U	**12**	10 U	100 U	**3,400**	10 U	**110**	10 U	10 U	10 U
	09/16/99	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.3 U	0.2 U	0.3 U	**3,000**	0.3 U	**120**	0.2 U	0.4 U	0.3 U
	09/16/99 (DUP)	0.2 U	**0.3 E**	0.2 U	**0.3 E**	0.2 U	0.2 U	0.2 U	**0.4 E**	**15**	0.2 U	0.3 U	**2,500**	**1.6**	**94**	0.2 U	0.4 U	0.3 U
	12/08/99	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	**23**	0.5 U	1 U	**2,600 J**	**1.2**	**120 J**	0.5 U	0.5 U	0.5 U
MW-5 (continued)	03/07/00	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**17**	0.5 U	1 U	**2,700**	**1.3**	**94**	0.5 U	0.5 U	0.5 U
	06/21/00	5 U	6 U	8 U	6 U	7 U	6 U	9 U	5 U	**6 J**	5 U	**30 J**	**2,900**	6 U	**92**	5 U	14 U	20 U
	09/12/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11**	1.0 U	5 U	**2,500**	**1.0**	**99**	1.0 U	3 U	1.0 U
	12/07/00	5 U	6 U	8 U	6 U	7 U	6 U	9 U	5 U	**10 J**	5 U	10 U	**2,600**	6 U	**88**	5 U	14 U	20 U
	03/15/01	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	**8.2**	**3 J**	**5 J**	**2,300 J**	2 U	**87**	1.0 U	**2 J**	3 U
	07/12/01	0.91 U	1.2 U	1.5 U	1.2 U	1.3 U	1.1 U	1.8 U	0.96 U	**5.4**	0.98 U	2 U	**2,800**	1.2 U	**84**	0.98 U	1.9 U	2.2 U
	08/27/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**7.4**	5 U	10 U	**1,800**	5 U	**68**	5 U	5 U	5 U
	09/24/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	**1,800**	5 U	**74**	5 U	5 U	5 U

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	10/22/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**7.1**	5 U	10 U	**1,600**	5 U	**76**	5 U	5 U	5 U
	11/19/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**12**	5 U	10 U	**2,000**	5 U	**75**	5 U	5 U	5 U
	01/02/02	**0.8 J**	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**7.4**	0.49 U	0.97 U	**1,600**	**0.9 J**	**69**	0.49 U	0.93 U	1.1 U
	03/27/02	0.91 U	1.2 U	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2.9 J**	1.3 U	2 U	**2,500**	1.2 U	**70**	0.98 U	2.2 U	2.2 U
	06/11/02	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**2.2 J**	0.65 U	0.97 U	**2,100**	**0.75 J**	**63**	0.49 U	1.5 U	1.1 U
	09/18/02	0.91 U	1.2 U	1.5 U	1.2 U	0.76 U	1.1 U	2.3 U	0.96 U	**3.7 J**	1.3 U	**4 J**	**2,600**	1.2 U	**76**	0.98 U	2.2 U	2.2 U
	12/16/02	5 U	5 U	20 U	5 U	5 U	5 U	5.0 U	5 U	**7.2**	5 U	20 U	**2,200**	5 U	**82**	5 U	5 U	5 U
	03/17/03	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**7.6**	0.65 U	**1.1 J**	**1,500**	**0.6 J**	**57**	0.49 U	1.1 U	1.1 U
	06/10/03	0.91 U	1.2 U	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**1.4 J**	1.3 U	2 U	**2,200**	1.2 U	**57**	0.98 U	2.2 U	2.2 U
	09/11/03	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**1.5 J**	0.65 U	0.97 U	**2,400**	0.57 U	**86**	0.49 U	1.1 U	1.1 U
	12/05/03	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**5**	0.65 U	0.97 U	**1,600**	0.57 U	**76**	0.49 U	1.1 U	1.1 U
	03/16/04	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**0.8 J**	0.65 U	0.97 U	**1,700**	**0.7 J**	**47**	0.49 U	1.1 U	1.1 U
	09/22/04	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**1.2 J**	0.65 U	0.97 U	**2,200**	**0.85 J**	**57**	0.49 U	1.1 U	1.1 U
	04/04/05	0.26 U	0.31 U	0.36 U	0.29 U	0.35 U	0.34 U	0.57 U	0.34 U	**1.5**	0.33 U	0.49 U	**1,300**	**0.43 J**	**45**	**0.28 J**	0.55 U	0.53 U
	09/20/05	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**2.0**	0.13 U	0.2 U	**1,300**	**0.53**	**48**	**0.32 J**	0.22 U	0.042 U
	03/14/06	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**3.1**	0.65 U	0.97 U	**1,300**	0.58 U	**47**	0.54 U	1.1 U	0.21 U
	09/13/06	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**3.6**	0.65 U	0.97 U	**1,600**	0.58 U	**59**	0.54 U	1.1 U	0.21 U
	04/05/07	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**4.5**	0.65 U	**1.2 J**	**1,200**	0.58 U	**43**	0.54 U	1.1 U	0.21 U
	09/26/07	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**6.7**	0.65 U	0.97 U	**1,300**	0.58 U	**49**	0.54 U	1.1 U	0.21 U
	05/01/08	0.11 U	**0.28 J**	0.093 U	0.19 U	0.11 U	0.12 U	0.3 U	0.11 U	**6.1**	0.11 U	0.58 U	**990**	**0.28 J**	**37**	**0.13 JB**	0.2 U	0.18 U
	09/30/08	0.21 U	0.5 U	0.19 U	0.37 U	0.21 U	0.23 U	0.65 U	0.21 U	**8.1**	0.21 U	1.2 U	**1,500**	**0.25 J**	**46**	**0.25 JB**	0.39 U	0.36 U
	03/25/09	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	**5.4 J**	10 U	10 U	**1,200**	10 U	**27**	10 U	10 U	4.0 U
	09/29/09	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	**4.6 J**	5.0 U	5.0 U	**850**	5.0 U	**31 J**	5.0 U	5.0 U	2.0 U
	09/29/09 (DUP)	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	10 UJ	**6.0 J**	5.0 UJ	5.0 UJ	**900**	5.0 UJ	**48 J**	5.0 UJ	5.0 UJ	2.0 UJ
	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**3.9**	0.5 U	0.5 U	**340**	0.5 U	**42**	0.5 U	0.5 U	0.2 U
	04/01/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**3.9**	0.5 U	0.5 U	**270**	0.5 U	**44**	0.5 U	0.5 U	0.2 U
	04/09/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	**1,100**	10 U	**35**	10 U	10 U	4.0 U
	04/16/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	**5.0 J**	10 U	10 U	**780**	10 U	**42**	10 U	10 U	4.0 U
	05/06/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	**3.2 J**	10 U	10 U	**640**	10 U	**36**	10 U	10 U	2.0 U
	06/09/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**3.2**	0.5 U	0.5 U	**670**	0.5 U	**33**	0.5 U	0.5 U	0.2 U
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**4.6**	0.5 U	0.5 U	**640**	0.5 U	**31**	0.5 U	0.5 U	0.2 U
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**4.6**	0.5 U	0.5 U	**640**	0.5 U	**31**	0.5 U	0.5 U	0.2 U
	09/28/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	5.0 U	10 U	10 U	**514**	10 U	**22.6**	10 U	10 U	2.0 UJ
	09/28/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**2.43**	0.5 U	0.5 U	**514**	0.5 U	**21.7**	0.5 U	0.5 U	0.2 UJ
MW-6	09/04/96	**12**	0.5 U	2 U	**3.2**	0.5 U	**1.7**	**460**	0.5 U	**0.6**	0.5 U	**2 B**	0.5 U	0.5 U	0.5 U	**31**	0.5 U	0.5 U
	12/10/96	**13**	0.5 U	2 U	**2.1**	0.5 U	**1.2**	**240**	0.5 U	**0.7**	0.5 U	**1 B**	1 U	0.5 U	0.5 U	**26**	0.5 U	0.5 U
	03/04/97	**12**	0.5 U	2 U	**1.4**	0.5 U	**0.7**	**190 J**	0.5 U	**0.5**	0.5 U	1 U	1 U	0.5 U	0.5 U	**5.0**	0.5 U	0.5 U
	06/27/97	**13**	0.5 U	2 U	**2.2**	0.5 U	**1.2**	**370**	0.5 U	**0.9**	0.5 U	1 U	1 U	0.5 U	0.5 U	**7.3**	0.5 U	0.5 U
	09/04/97	**9.5**	0.5 U	2 U	**2.4**	0.5 U	**1.6**	**320**	0.5 U	0.5 U	0.5 U	1 U	**2.7**	0.5 U	0.5 U	**13**	**0.5**	0.5 U
	12/04/97	**9.1**	0.5 U	2 U	**1.4**	0.5 U	**0.7**	**180**	0.5 U	**0.6**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**4.9**	0.5 U	0.5 U
	03/06/98	**11**	0.5 U	2 U	**1.8**	0.5 U	**1.1 B**	**150**	0.5 U	**0.6**	0.5 U	**2.5 B**	0.5 U	0.5 U	0.5 U	**9.4 B**	0.5 U	0.5 U
	06/18/98	**12**	0.5 U	2 U	**2.6**	0.5 U	**1.7 B**	**190**	0.5 U	**0.8**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**11 B**	0.5 U	0.5 U
	09/29/98	**10**	0.5 U	2 U	**2.1**	0.5 U	**1.5**	**190 E**	0.5 U	**0.7**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**8.9**	0.5 U	0.5 U
	12/15/98	**9.9**	0.5 U	2 U	**0.9**	0.5 U	0.5 U	**110**	0.5 U	**0.6**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**3.7 B**	0.5 U	0.5 U
	03/02/99	**10**	0.5 U	2 U	**0.9**	0.5 U	0.5 U	**180**	0.5 U	**0.6**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**3.2 B**	0.5 U	0.5 U
	03/02/99 (DUP)	**9.5**	0.5 U	2 U	**0.8**	0.5 U	0.5 U	**170**	0.5 U	**0.6**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**3.1 B**	0.5 U	0.5 U
	06/16/99	**7.4**	0.5 U	2 U	0.5 U	**0.9**	**0.5 B**	**100**	0.5 U	**0.5**	0.5 U	5 U	0.5 U	0.5 U	0.5 U	**2.3 B**	0.5 U	0.5 U
	09/16/99	**7.5**	0.2 U	0.2 U	**0.8**	0.2 U	**0.5 E**	**81**	0.2 U	**0.5**	0.2 U	0.3 U	0.2 U	0.3 U	0.3 U	**2.3 E**	0.4 U	0.3 U
	12/08/99	**7.2**	0.5 U	2 U	**0.7**	0.5 U	0.50 U	**73 J**	0.5 U	**0.6**	0.5 U	1 U	0.5 U	0.5 U	0.5 UJ	**1.5**	0.5 U	0.5 U
	03/07/00	**6.9**	0.5 U	2 U	**0.8**	0.5 U	0.5 U	**72**	0.5 U	**0.5**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**1.8**	0.5 U	0.5 U
	06/21/00	**6.6**	0.2 U	0.2 U	**0.4 J**	0.2 U	0.2 U	**29**	0.1 U	**0.3 J**	**0.78**	0.2 U	**2.6**	0.2 U	**0.3** J	**0.7**	**0.7 J**	0.3 U
	09/12/00	**5**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**53**	1.0 U	1.0 U	1.0 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	3 U	1.0 U
	12/07/00	**5.8**	0.2 U	0.2 U	**0.5 J**	0.2 U	**0.4 J**	**52 J**	0.1 U	**0.51**	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.6 B**	0.2 U	0.3 U
	03/15/01	**6 J**	0.2 U	0.2 U	**0.64**	0.2 U	**0.3 J**	**54**	0.1 U	**0.4 J**	0.1 U	**0.4 J**	0.2 U	0.2 U	0.2 U	**1.6**	0.2 U	0.3 U
	07/12/01	**4.8**	0.12 U	0.15 U	**0.40 J**	0.13 U	**0.25 J**	**29**	0.096 U	**0.3 J**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.83**	0.19 U	0.22 U
	09/25/01	**5.9**	0.5 U	2.0 U	**0.53**	0.5 U	0.5 U	**47**	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**1.2**	0.5 U	0.5 U
	01/03/02	**5.3**	0.12 U	0.15 U	**0.62**	0.13 U	0.11 U	**44**	0.096 U	**0.33 J**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**1.4 B**	0.19 U	0.22 U
	03/27/02	**5.1**	0.12 U	0.15 U	**0.78**	0.13 U	**0.43 J**	**63**	0.096 U	**0.38 J**	0.13 U	**0.29 J**	0.11 U	0.12 U	0.12 U	**1.2**	0.22 U	0.22 U
	06/14/02	**3.4**	0.12 U	0.15 U	**0.15 J**	0.13 U	0.11 U	**11**	0.096 U	**0.22 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.37 J**	0.22 U	0.22 U
	09/18/02	**4.9**	0.12 U	0.15 U	**0.52**	0.13 U	**0.50**	**36**	0.096 U	**0.4 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**1.2**	0.22 U	0.22 U
	12/16/02	**4.6**	0.5 U	2.0 U	**0.76**	0.5 U	**0.58**	**51**	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**1.2**	0.5 U	0.5 U
	03/20/03	**3.4**	0.5 U	2.0 U	0.5 U	0.5 U	0.50 U	**31**	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U
	06/11/03	**2.7**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	**0.72**	0.096 U	**0.13 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.8 B**	0.22 U	0.22 U
	09/10/03	**3.4**	0.12 U	0.15 U	0.12 U	0.13 U	**0.20 JB**	**4.9**	0.096 U	**0.2 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.59 B**	0.22 U	0.22 U
	12/04/03	**3.2**	0.12 U	0.15 U	**0.34 J**	0.13 U	**0.23 J**	**13**	0.096 U	**0.26 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.45 J**	0.22 U	0.22 U
MW-6 (continued)	03/16/04	**1.5**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	**2.2**	0.096 U	**0.13 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.16 J**	0.22 U	0.22 U
	09/23/04	**3.6**	0.12 U	0.15 U	**0.57**	0.13 U	**0.31 J**	**19**	0.096 U	**0.34 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.73**	0.22 U	0.22 U
	04/05/05	**1.3**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	**0.72**	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.40 J**	0.22 U	0.22 U
	09/21/05	**3.8**	0.13 U	0.15 U	**0.44 J**	0.14 U	**0.31 J**	**12**	0.14 U	**0.31 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.54**	0.22 U	0.042 U
	03/14/06	**0.74**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.13 J**	0.22 U	0.042 U
	03/14/06 (DUP)	**0.73**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	09/13/06	**3.3**	0.13 U	0.15 U	**0.46 J**	0.14 U	**0.27 J**	**10**	0.14 U	**0.31 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.17 J**	0.22 U	0.042 U
	04/05/07	**0.39 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	**0.15 J**	0.11 U	0.22 U	0.042 U
	09/26/07	**2.4**	0.13 U	0.15 U	**0.25 J**	0.14 U	**0.21 J**	**1.3**	0.14 U	**0.23 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.14 J**	0.22 U	0.042 U
	05/02/08	**0.34 J**	0.1 U	0.037 U	0.073 U	0.042 U	**0.05 J**	0.13 U	0.042 U	**0.1 J**	0.042 U	0.23 U	0.077 U	0.05 U	0.061 U	**0.11 JB**	0.078 U	0.071 U

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	09/30/08	**1.8**	0.1 U	0.037 U	**0.21 J**	0.042 U	**0.2 J**	**1.3**	0.042 U	**0.19 J**	**0.05 J**	0.23 U	0.077 U	0.05 U	**0.07 J**	**0.32 JB**	**0.21 J**	0.071 U
	03/26/09	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/29/09	**3.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**6.2**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/30/10	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/10	**1.51**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.87**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-7	12/22/97	0.5 U	0.5 U	2 U	0.5 U	**2.0**	0.5 U	0.5 U	**0.9** U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	03/06/98	0.5 U	0.5 U	2 U	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**2.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	06/18/98	0.5 U	0.5 U	2 U	0.5 U	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**4.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	06/18/98 (DUP)	0.5 U	0.5 U	2 U	0.5 U	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**4.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	09/29/98	0.5 U	0.5 U	2 U	0.5 U	**1.1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**1.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	12/14/98	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	03/03/99	0.5 U	0.5 U	2 U	0.5 U	**2.1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**3.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	06/17/99	0.5 U	0.5 U	2 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	**4.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	09/17/99	0.2 U	0.2 U	0.2 U	0.2 U	**0.9**	0.2 U	0.2 U	0.2 U	0.3 U	**0.2 E**	0.3 U	**2**	0.3 U	0.3 U	**0.2 EB**	0.4 U	0.3 U
	12/08/99	0.5 U	0.5 U	2 U	0.5 U	**2.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**14**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	03/07/00	0.5 U	0.5 U	2 U	0.5 U	**2.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	**1.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	06/21/00	**0.1 J**	0.2 U	0.2 U	0.2 U	**0.3 J**	0.2 U	**0.82**	0.1 U	0.2 U	**0.58**	0.2 U	**9**	0.2 U	0.2 U	0.1 U	**0.4 J**	0.3 U
	09/12/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	**5**	1.0 U	1.0 U	1.0 U	3 U	1.0 U
	12/07/00	0.1 U	0.2 U	0.2 U	0.2 U	**1.7**	0.2 U	0.2 U	0.1 U	0.09 U	0.1 U	0.2 U	**0.82**	0.2 U	0.2 U	0.1 U	0.2 U	0.3 U
	03/15/01	0.1 U	0.2 U	0.2 U	0.2 U	**0.91**	0.2 U	0.2 U	0.1 U	0.09 U	0.1 U	0.2 U	**2.1**	0.2 U	0.2 U	**0.1 J**	0.2 U	0.3 U
	07/12/01	0.091 U	0.12 U	0.15 U	0.12 U	**0.28 J**	0.11 U	0.18 U	0.096 U	0.12 U	0.098 U	0.2 U	**4.9**	0.12 U	0.12 U	**0.11 J**	0.19 U	0.22 U
	08/27/01	0.5 U	0.5 U	2.0 U	0.5 U	**0.72**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**3**	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
	09/25/01	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**2.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	10/22/01	0.5 U	0.5 U	2.0 U	0.5 U	**0.69**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	11/20/01	0.5 U	0.5 U	2.0 U	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	01/03/02	0.091 U	0.12 U	0.15 U	0.12 U	**1.2**	0.11 U	0.23 U	0.096 U	0.12 U	0.098 U	0.2 U	**1.4**	0.12 U	0.12 U	**0.2 JB**	0.19 U	0.22 U
	03/28/02	0.091 U	0.12 U	0.15 U	0.12 U	**0.58**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	**0.28 J**	**3.5**	0.12 U	0.12 U	**0.2 J**	0.22 U	0.22 U
	06/14/02	0.091 U	0.12 U	0.15 U	0.12 U	**0.31 J**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**4.7**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	09/17/02	0.091 U	0.12 U	0.15 U	0.12 U	**0.37 J**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**2.9**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	09/17/02 (DUP)	0.091 U	0.12 U	0.15 U	0.12 U	**0.36 J**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**2.7**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	12/17/02	0.5 U	0.5 U	2.0 U	0.5 U	**1.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	**1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	03/17/03	0.091 U	0.12 U	0.15 U	0.12 U	**1.3**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**1.5**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	06/10/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**8.5**	0.12 U	0.12 U	**0.50 B**	0.22 U	0.22 U
	09/10/03	0.091 U	0.12 U	0.15 U	0.12 U	**0.17 J**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**4.1**	0.12 U	0.12 U	**0.33 JB**	0.22 U	0.22 U
	12/04/03	0.091 U	0.12 U	0.15 U	0.12 U	**1.7**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**0.86**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	03/16/04	0.091 U	0.12 U	0.15 U	0.12 U	**0.2 J**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**5.9**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	09/22/04	0.091 U	0.12 U	0.15 U	0.12 U	**0.51**	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	**2.8**	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	04/04/05	0.11 U	0.13 U	0.15 U	0.12 U	**0.68**	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	**2.1**	0.12 U	0.14 U	**0.42 J**	0.22 U	0.22 U
	09/20/05	0.11 U	0.13 U	0.15 U	0.12 U	**0.28 J**	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	**3.4**	0.12 U	**0.18 J**	**0.17 J**	0.22 U	0.042 U
	03/14/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	**6.9**	0.12 U	0.14 U	**0.14 J**	0.22 U	0.042 U
	09/13/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	**4.2**	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	04/03/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	**0.27 J**	**1.8**	0.12 U	0.14 U	4.3 U	0.22 U	0.042 U
	09/25/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	**3.2**	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	05/01/08	0.042 U	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	0.042 U	0.23 U	**5.4**	0.05 U	**0.09 J**	**0.11 JB**	0.078 U	0.071 U
	10/01/08	0.042 U	0.1 U	0.037 U	0.073 U	**0.10 J**	0.045 U	0.13 U	0.042 U	0.045 U	**0.05 J**	0.23 U	**2.5**	0.05 U	**0.17 J**	**0.24 JB**	**0.13 J**	0.071 U
	03/24/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	**2.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/29/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	**1.4**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	**2.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/28/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	**1.38**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-8	12/22/97	0.5 U	**3.3**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.4**	**2.9**	0.5 U	1 U	0.5 U	0.5 U	**33**	0.5 U	0.5 U	**0.7**
	03/06/98	0.5 U	**1.2**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	0.5 U	1 U	0.5 U	0.5 U	**20**	0.5 U	0.5 U	**0.7**
	06/18/98	0.5 U	**3**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.5**	0.5 U	1 U	0.5 U	0.5 U	**34**	0.5 U	0.5 U	**0.8**
	09/29/98	0.5 U	**3.2**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.8**	0.5 U	1 U	0.5 U	0.5 U	**35**	0.5 U	0.5 U	**0.6**
	12/14/98	0.5 U	**2.9**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.6**	0.5 U	1 U	0.5 U	0.5 U	**35**	0.5 U	0.5 U	**0.6**
	12/14/98 (DUP)	0.5 U	**3**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.8**	0.5 U	1 U	0.5 U	0.5 U	**35**	0.5 U	0.5 U	**0.6**
	03/02/99	0.5 U	**1.9**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.9**	0.5 U	1 U	0.5 U	0.5 U	**29**	0.5 U	0.5 U	**0.6**
	06/16/99	0.5 U	**1.3**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	0.5 U	5 U	0.5 U	0.5 U	**16**	0.5 U	0.5 U	**0.6**
	09/16/99	0.2 U	**1.1**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**1.3**	0.2 U	0.3 U	**0.2 EB**	0.3 U	**15**	0.2 U	0.4 U	**0.3 E**
	12/08/99	0.5 U	**2.0**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.3**	0.5 U	1 U	0.5 U	0.5 U	**25**	0.5 U	0.5 U	0.5 U
MW-8 (continued)	03/07/00	0.5 U	**1.2**	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.4**	0.5 U	1 U	0.5 U	0.5 U	**18**	0.5 U	0.5 U	0.5 U
	06/21/00	0.1 U	**1.3**	0.2 U	0.2 U	0.2 U	0.2 U	**0.5 J**	0.1 U	**1.5**	**0.4 J**	0.2 U	**1.2**	0.2 U	**16**	0.1 U	**0.3 J**	0.3 U
	09/12/00	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**	1.0 U	5.0 U	1.0 U	1.0 U	**19**	1.0 U	3.0 U	1.0 U
	12/07/00	0.1 U	**2.0**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	**2.4**	0.1 U	0.2 U	0.2 U	0.2 U	**23**	**0.2 J**	0.2 U	**0.3 J**
	03/15/01	0.1 U	**1.4**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	**1.4**	0.1 U	0.2 U	0.2 U	0.2 U	**18**	**0.2 J**	0.2 U	0.3 U
	07/12/01	0.091 U	**2.5**	0.15 U	0.12 U	0.13 U	0.11 U	0.18 U	0.096 U	**2.3**	0.098 U	0.2 U	0.11 U	0.12 U	**28**	**0.14 J**	0.19 U	**0.37 J**
	08/27/01	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	**0.91**	0.5 U	0.5 U	0.5 U
	09/25/01	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.59**
	10/22/01	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**
	11/20/01	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.50 U
	01/03/02	0.091 U	**2.0**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.3**	0.098 U	0.2 U	0.11 U	0.12 U	**27**	**0.31 JB**	0.19 U	0.22 U
	03/27/02	0.091 U	**0.72**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.0**	0.13 U	0.2 U	**0.17 J**	0.12 U	**14**	0.098 U	0.22 U	0.22 U
	06/14/02	0.091 U	**0.77**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.0**	0.13 U	0.2 U	**0.13 J**	0.12 U	**11**	0.098 U	0.22 U	0.22 U
	09/18/02	0.091 U	**2.5**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.8**	0.13 U	0.2 U	**0.21 J**	0.12 U	**29**	0.098 U	0.22 U	**0.5**

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	**5,100,000**	**3,350,000**	**LNAPL**	**8,690,000**		**0.8**	**LNAPL**	**8,200,000**	**3,500,000**	**LNAPL**	**20,000,000**	**200,000**	**720,000**	**1,100,000**	**1,000**	**LNAPL**	**LNAPL**
	Final Cleanup Levels	**800**	**7.0**	**400**	**0.5**	**0.64**	**0.8**	**-**	**7.2**	**70**	**700**	**5.0**	**0.86**	**200**	**4.0**	**1,000**	**1,600**	**0.5**
	12/16/02	0.5 U	**3.1**	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.0**	0.5 U	2.0 U	0.5 U	0.5 U	**34**	0.5 U	0.5 U	**0.62**
	03/17/03	0.091 U	**2.5**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.6**	0.13 U	0.2 U	**0.12 J**	0.12 U	**29**	0.098 U	0.22 U	0.22 U
	06/11/03	0.091 U	**1.2**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**1.7**	0.13 U	0.2 U	**0.51**	0.12 U	**16**	**0.66 B**	0.22 U	0.22 U
	09/10/03	0.091 U	**2.2**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.4**	0.13 U	0.2 U	**0.26 J**	0.12 U	**32**	**0.39 JB**	0.22 U	**0.41 J**
	09/10/03 (DUP)	0.091 U	**2.3**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.5**	0.13 U	0.2 U	**0.21 J**	0.12 U	**32**	**0.22 JB**	0.22 U	**0.45 J**
	12/04/03	0.091 U	**2.8**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**3.2**	0.13 U	0.2 U	0.11 U	0.12 U	**36**	0.098 U	0.22 U	**0.6**
	03/16/04	0.091 U	**0.59**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.92**	0.13 U	0.2 U	**0.31 J**	0.12 U	**11**	**0.12 J**	0.22 U	0.22 U
	09/24/04	0.091 U	**1.7**	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**2.4**	0.13 U	0.2 U	0.11 U	0.12 U	**20**	0.098 U	0.22 U	**0.38 J**
	04/05/05	0.11 U	**0.99**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**1.6**	0.13 U	0.2 U	**0.26 J**	0.12 U	**15**	**0.34 J**	0.22 U	0.22 U
	09/20/05	0.11 U	**1.3**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**2.3**	0.13 U	0.2 U	**0.43 J**	0.12 U	**19**	**0.23 J**	0.22 U	**0.13 J**
	03/15/06	0.11 U	**0.60**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**1.1**	0.13 U	0.2 U	**0.26 J**	0.12 U	**9.8**	**0.18 J**	0.22 U	**0.08 J**
	09/13/06	0.11 U	**1.1**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**2.2**	0.13 U	0.2 U	**0.39 J**	0.12 U	**14**	0.11 U	0.22 U	**0.36 J**
	04/05/07	0.11 U	**0.5 J**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.90**	0.13 U	0.2 U	**0.31 J**	0.12 U	**7.4**	0.11 U	0.22 U	**0.05 J**
	09/26/07	0.11 U	**1.1**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**1.9**	0.13 U	0.2 U	**0.23 J**	0.12 U	**13**	0.11 U	0.22 U	**0.25 J**
	05/01/08	0.042 U	**0.65**	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	**0.99**	0.042 U	0.23 U	**0.34 J**	0.05 U	**6.5**	**0.09 JB**	0.12 U	0.071 U
	09/30/08	0.042 U	**1.4**	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	**2.8**	0.042 U	0.23 U	**0.22 J**	0.05 U	**14**	**0.18 JB**	**0.11 J**	**0.47 J**
	03/26/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.7**	0.5 U	0.5 U	0.2 U
	09/29/09	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.7**	0.5 U	0.5 U	0.5 U	0.5 U	**9.1 J**	0.5 U	0.5 U	**0.4 J**
	04/01/10	0.5 U	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.4**	0.5 U	0.5 U	0.5 U	0.5 U	**5.0**	0.5 U	0.5 U	**0.3**
	09/28/10	0.5 U	**1.11**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**2.02**	0.5 U	0.5 U	0.5 U	0.5 U	**5.09**	0.5 U	0.5 U	0.2 UJ
MW-9	07/12/01	**2.3**	0.12 U	0.15 U	0.12 U	0.13 U	**3.5**	**15**	**0.1 J**	**4.1**	**0.12 J**	0.2 U	**0.15 J**	0.12 U	**0.28 J**	**1.2**	**0.18 J**	**0.26 J**
	07/12/01 (DUP)	**2.3**	0.12 U	0.15 U	0.12 U	0.13 U	**3.4**	**14**	**0.15 J**	**3.4**	0.098 U	0.2 U	**0.18 J**	0.12 U	**0.28 J**	**1.0**	**0.13 J**	**0.23 J**
	08/27/01	**2.4**	0.5 U	2.0 U	0.5 U	0.5 U	**4.0**	**12**	0.5 U	**5.2**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**1.7**	0.5 U	0.5 U
	09/25/01	**2.3**	0.5 U	2.0 U	0.5 U	0.5 U	**3.6**	**12**	0.5 U	**4.8**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**1.2**	0.5 U	0.5 U
	10/22/01	**2.3**	0.5 U	2.0 U	0.5 U	0.5 U	**4.1**	**12**	0.5 U	**5.9**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**1.4**	0.5 U	0.5 U
	11/20/01	**1.8**	0.5 U	2.0 U	0.5 U	0.5 U	**4.5**	**10**	0.5 U	**8.4**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	**1.4**	0.5 U	0.5 U
	01/03/02	**0.65**	**0.78**	0.15 U	0.12 U	0.13 U	**1.8**	**2.9**	0.096 U	**31**	0.098 U	0.2 U	0.11 U	0.12 U	**18**	**0.59 B**	0.19 U	**0.29 J**
	03/27/02	0.091 U	**0.95**	0.15 U	0.12 U	0.13 U	0.11 U	**0.38 J**	0.096 U	**27**	0.13 U	**0.21 J**	0.11 U	0.12 U	**45**	**0.14 J**	0.22 U	**0.26 J**
	06/14/02	**1.8**	**0.25 J**	0.15 U	**0.21 J**	0.13 U	**2.6**	**19**	0.096 U	**12**	**0.13 J**	**0.28 J**	0.11 U	0.12 U	**6.2**	**1.0**	**0.23 J**	**0.25 J**
	09/17/02	**2.2**	0.12 U	0.15 U	0.12 U	0.13 U	**2.9**	**21**	0.096 U	**5.5**	**0.20 J**	**0.27 J**	0.11 U	0.12 U	**2.0**	**1.2**	**0.28 J**	**0.23 J**
	12/16/02	**2.4**	0.5 U	2.0 U	0.5 U	0.5 U	**2.7**	**21**	0.5 U	**4.2**	0.5 U	2 U	0.5 U	0.5 U	**0.9**	**0.93**	0.5 U	0.5 U
	03/17/03	**0.48 J**	**0.74**	0.15 U	0.12 U	0.13 U	**1.4**	**2.7**	0.096 U	**27**	0.13 U	0.2 U	0.11 U	0.12 U	**12**	**0.33 J**	**0.12 J**	0.22 U
	06/11/03	**2.3**	0.12 U	0.15 U	**0.41 J**	0.13 U	**1.9**	**34**	0.096 U	**4.3**	0.13 U	**0.4 J**	0.11 U	0.12 U	**1.7**	**0.99 B**	**0.13 J**	**0.22 J**
	09/10/03	**2.5**	0.12 U	0.15 U	**0.43 J**	0.13 U	**2.3 B**	**32**	0.096 U	**6.3**	0.13 U	**0.32 J**	0.11 U	0.12 U	**1.2**	**1.1 B**	0.22 U	**0.32 J**
	12/04/03	**2.5**	0.12 U	0.15 U	0.12 U	0.13 U	**3.1**	**27**	0.096 U	**6.4**	0.13 U	**0.24 J**	0.11 U	0.12 U	**0.48 J**	**0.88**	**0.21 J**	0.22 U
	03/16/04	**0.79**	**0.39 J**	0.15 U	0.12 U	0.13 U	**0.98**	**2.2**	0.096 U	**14**	0.13 U	0.2 U	0.11 U	0.12 U	**11**	**0.24 J**	0.22 U	**0.23 J**
	09/23/04	**1.9**	0.12 U	0.15 U	**0.35 J**	0.13 U	**2.0**	**18**	0.096 U	**2.5**	0.13 U	**0.27 J**	0.11 U	0.12 U	**0.16 J**	**0.71**	**0.15 J**	**0.49 J**
	04/05/05	**1.2**	**0.18 J**	0.15 U	0.12 U	0.14 U	**2.1**	**0.42 J**	0.14 U	**13**	0.13 U	0.2 U	0.13 U	0.12 U	**1.5**	**0.78**	0.22 U	**1.6**
	09/20/05	**1.9**	0.13 U	0.15 U	**0.34 J**	0.14 U	**2.2**	**15**	0.14 U	**1.1**	0.13 U	**0.25 J**	0.13 U	0.12 U	0.14 U	**0.86**	**0.13 J**	**0.35 J**
	03/14/06	**0.63**	0.13 U	0.15 U	0.12 U	0.14 U	**0.4 J**	0.23 U	0.14 U	**5.7**	0.13 U	0.2 U	0.13 U	0.12 U	**7.7**	**0.12 J**	0.22 U	**0.96**
	09/13/06	**1.6**	0.13 U	0.15 U	**0.35 J**	0.14 U	**2.0**	**12**	0.14 U	**1.1**	0.13 U	**0.22 J**	0.13 U	0.12 U	**0.19 J**	**0.63**	0.22 U	**0.59**
	04/05/07	**0.31 J**	**0.23 J**	0.15 U	0.12 U	0.14 U	**0.3 J**	0.23 U	0.14 U	**9.9**	0.13 U	0.2 U	0.13 U	0.12 U	**7.6**	0.11 U	0.22 U	**0.78**
	09/26/07	**1.3**	0.13 U	0.15 U	**0.28 J**	0.14 U	**1.8**	**4.5**	0.14 U	**0.62**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.53**	0.22 U	**0.43 J**
	05/01/08	**0.43 J**	**0.22 J**	0.037 U	0.073 U	0.042 U	**1.2**	0.13 U	0.042 U	**13**	0.042 U	0.23 U	0.077 U	0.05 U	**0.57**	**0.39 JB**	**0.18 J**	**2.7**
	09/30/08	**1.0**	0.1 U	0.037 U	**0.18 J**	0.042 U	**2.0**	**2.7**	0.042 U	**0.46 J**	**0.08 J**	0.23 U	0.077 U	0.05 U	0.061 U	**0.63**	**0.27 J**	**0.38 J**
	03/26/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2**	0.5 U	1.0 U	**4.0**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	0.5 U	0.5 U	**2.3**
	09/29/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2**	0.5 U	1.0 U	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**
	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**	0.5 U	1.0 U	**15**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	0.5 U	0.5 U	**3.9**
	09/28/10	**0.51**	0.5 U	0.5 U	0.5 U	0.5 U	**1.70**	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.38 J**	0.5 U	0.2 UJ
	09/28/10 (LAB DUP)	**0.54**	0.5 U	0.5 U	0.5 U	0.5 U	**1.87**	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.40 J**	0.5 U	0.2 UJ
MW-10	07/12/01	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.18 U	0.096 U	**0.65**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.14 J**	0.19 U	0.22 U
	09/25/01	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.59**	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	01/03/02	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.48 J**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.45 JB**	0.19 U	0.22 U
	01/03/02 (DUP)	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.44 J**	0.098 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.44 JB**	0.19 U	0.22 U
	03/28/02	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.48 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	06/14/02	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.41 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.24 J**	0.22 U	0.22 U
	09/17/02	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.59**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	12/17/02	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MW-10 (continued)	03/20/03	0.5 U	0.5 U	2.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	06/10/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.37 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.43 JB**	0.22 U	0.22 U
	09/10/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.47 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.22 JB**	0.22 U	0.22 U
	12/04/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.46 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	03/16/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.45 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.17 J**	0.22 U	0.22 U
	09/22/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.34 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	04/05/05	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	**0.33 J**	0.13 U	0.2 U	0.11 U	0.12 U	0.14 U	**0.42 J**	0.22 U	0.22 U
	09/20/05	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.41 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.16**	0.22 U	0.042 U
	03/15/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.26 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.16 J**	0.22 U	0.042 U
	09/12/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.3 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	04/03/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.2 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	09/24/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.14 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	05/01/08	0.042 U	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	**0.17 J**	0.042 U	0.23 U	0.077 U	0.05 U	0.061 U	**0.15 JB**	0.078 U	0.071 U
	10/01/08	0.042 U	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	**0.22 J**	0.042 U	0.23 U	0.077 U	0.05 U	0.061 U	**0.14 JB**	0.078 U	0.071 U
	03/24/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/28/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-11	07/12/01	0.91 U	1.2 U	NA	1.2 U	1.3 U	NA	1.8 U	0.96 U	**19**	NA	2 U	**2,000**	1.2 U	**78**	NA	NA	**2.5 J**
	08/27/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**19**	5 U	10 U	**1,600**	5 U	**69**	5 U	5 U	5 U
	09/24/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**22**	5 U	10 U	**1,900**	5 U	**84**	5 U	5 U	5 U
	10/15/01	**1.4**	**0.53**	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**28**	0.5 U	1 U	**1,600**	0.5 U	**83**	0.5 U	0.5 U	**1.2**
	10/15/01	**1.4**	**0.54**	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**29**	0.5 U	1 U	**1,700**	0.5 U	**86**	0.5 U	0.5 U	**1.2**
	10/22/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**25**	5 U	10 U	**2,000**	5 U	**92**	5 U	5 U	5 U
	10/22/01	2.5 U	2.5 U	NA	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	**25**	2.5 U	5 U	**2,000**	2.5 U	**92**	2.5 U	2.5 U	2.5 U
	10/29/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**25**	5 U	10 U	**1,700**	5 U	**91**	5 U	5 U	5 U
	10/29/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**25**	5 U	10 U	**1,800**	5 U	**92**	5 U	5 U	5 U
	11/19/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**20**	5 U	10 U	**1,900**	5 U	**78**	5 U	5 U	5 U
	01/02/02	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**18**	0.49 U	0.97 U	**1,900**	0.56 U	**78**	0.49 U	0.93 U	1.1 U
	03/27/02	0.91 U	1.2 U	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**19**	1.3 U	**4 J**	**1,800**	1.2 U	**67**	0.98 U	2.2 U	2.2 U
	06/11/02	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**19**	0.49 U	0.97 U	**1,500**	0.57 U	**64**	0.49 U	1.5 U	1.1 U
	09/17/02	0.91 U	1.2 U	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**16**	1.3 U	2 U	**2,000**	1.2 U	**67**	0.98 U	2.2 U	2.2 U
	12/16/02	**2.2**	1 U	4.0 U	1.0 U	1.0 U	1.1 U	1 U	1.0 U	**7.9**	1.0 U	4 U	**680**	1.0 U	**40**	1.0 U	1.0 U	**1.7**
	03/17/03	**1.0 J**	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**7.5**	0.65 U	**1.3 J**	**1,100**	0.57 U	**46**	0.49 U	1.1 U	1.10 U
	03/17/03	**1.0 J**	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**7.5**	0.65 U	**1.3 J**	**1,100**	0.57 U	**45**	0.49 U	1.1 U	1.10 U
	06/10/03	**0.9 J**	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	**0.5 J**	**7.4**	0.65 U	0.97 U	**1,500**	0.57 U	**53**	**0.85 JB**	1.1 U	**1.5 J**
	09/10/03	0.46 U	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	**0.5 J**	**6.0**	0.65 U	0.97 U	**1,700**	**0.75 J**	**62**	0.49 U	1.1 U	**1.6 J**
	12/05/03	**2.9**	**0.4 J**	0.29 U	0.23 U	0.25 U	**0.86 J**	0.46 U	**0.2 J**	**8.8**	0.26 U	0.39 U	**1,100**	**0.3 J**	**58**	0.2 U	0.44 U	**2.1**
	03/16/04	**0.55 J**	0.6 U	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	**0.55 J**	**5.2**	0.65 U	0.97 U	**1,500**	**0.65 J**	**47**	0.49 U	1.5 U	1.1 U
	09/22/04	**0.7 J**	0.3 U	0.36 U	0.29 U	0.31 U	0.27 U	0.57 U	**0.43 J**	**6.3**	0.33 U	0.49 U	**1,300**	**0.58 J**	**47**	0.25 U	0.55 U	**0.78 J**
	04/04/05	**0.68 J**	0.31 U	0.36 U	0.29 U	0.35 U	0.34 U	0.57 U	0.34 U	**13**	0.33 U	0.49 U	**1,300**	**0.50 J**	**48**	**0.58 J**	0.55 U	0.53 U
	09/20/05	**0.45 J**	**0.19 J**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	**0.21 J**	**29**	0.13 U	0.2 U	**1,400**	**0.61**	**52**	**0.17 J**	0.22 U	**0.35 J**
	03/14/06	**0.65 J**	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**51**	0.65 U	0.97 U	**1,000**	**0.60 J**	**50**	0.54 U	1.1 U	**0.8 J**
	09/13/06	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**28**	0.65 U	0.97 U	**1,100**	0.58 U	**50**	0.54 U	1.1 U	**0.7 J**
	04/04/07	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**50**	0.65 U	0.97 U	**1,200**	0.58 U	**38**	0.54 U	1.1 U	2.1 U
	09/26/07	0.51 U	0.61 U	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**41**	0.65 U	0.97 U	**1,200**	0.58 U	**42**	0.54 U	1.1 U	2.1 U
	05/01/08	0.11 U	0.25 U	0.093 U	0.19 U	0.11 U	0.12 U	0.33 U	**0.2 J**	**26**	0.11 U	0.58 U	**910**	**0.28 J**	**35**	**0.13 JB**	0.2 U	0.18 U
	09/30/08	0.21 U	0.5 U	0.19 U	0.37 U	0.21 U	0.23 U	0.65 U	0.21 U	**27**	0.21 U	1.2 U	**1,000**	**0.25 J**	**41**	**0.25 JB**	0.39 U	0.36 U
	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**16**	0.5 U	0.5 U	**290**	0.5 U	**44**	0.5 U	0.5 U	0.2 U
	04/09/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	**850**	10 U	**35**	10 U	10 U	4.0 U
	04/16/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	**22**	10 U	10 U	**500**	10 U	**66**	10 U	10 U	**4.0**
	05/06/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	**24**	10 U	10 U	**530**	10 U	**43**	10 U	10 U	**1.0 J**
	06/09/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**11**	0.5 U	0.5 U	**680**	0.5 U	**33**	0.5 U	0.5 U	**0.28**
	06/09/10 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**9.3**	0.5 U	0.5 U	**580**	0.5 U	**31**	0.5 U	0.5 U	**0.21**
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**19**	0.5 U	0.5 U	**470**	0.5 U	**34**	0.5 U	0.5 U	0.2 U
MW-12	07/12/01	2.3 U	3 U	NA	2.9 U	3.1 U	NA	4.4 U	2.4 U	**170**	NA	4.9 U	**6,100**	2.8 U	**200**	NA U	NA	5.3 U
	08/27/01	25 U	25 U	NA	25 U	25 U	25 U	25 U	25 U	**150**	25 U	25 U	**6,000**	25 U	**160**	25 U	25 U	25 U
	09/24/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**52**	5 U	0.5 U	**2,400**	5 U	**86**	5 U	5 U	5 U
	10/15/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**23**	5 U	10 U	**1,500**	5 U	**43**	5 U	5 U	5 U
	10/15/01 (DUP)	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**22**	5 U	10 U	**1,600**	5 U	**40**	5 U	5 U	5 U
	10/22/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**48**	5 U	10 U	**2,600**	5 U	**66**	5 U	5 U	5 U
	10/22/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**39**	5 U	10 U	**2,400**	5 U	**62**	5 U	5 U	5 U
	10/29/01	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**61**	5 U	10 U	**2,300**	5 U	**76**	5 U	5 U	5 U
	10/29/01 (DUP)	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	**60**	5 U	10 U	**2,100**	5 U	**70**	5 U	5 U	5 U
	11/19/01	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	**190**	10 U	20 U	**3,300**	10 U	**210**	10 U	10 U	10 U
	01/03/02	**0.52 J**	**1.1**	0.29 U	0.23 U	0.25 U	0.21 U	**2.6**	**0.22 J**	**340**	0.2 U	0.39 U	**440**	0.23 U	**72**	**0.4 JB**	**0.62 J**	0.43 U
	03/27/02	0.91 U	**7.7**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,700**	1.3 U	2 U	**2,100**	1.2 U	**640**	0.98 U	2.2 U	2.2 U
	3/27/02 (DUP)	0.91 U	**8.5**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,800**	1.3 U	2 U	**2,300**	1.2 U	**660**	0.98 U	2.2 U	2.2 U
	06/11/02	0.91 U	**5.5**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,000**	1.3 U	2 U	**2,400**	1.2 U	**600**	0.98 U	2.2 U	2.2 U
	06/11/02 (DUP)	0.91 U	**5.6**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,000**	1.3 U	2 U	**2,400**	1.2 U	**580**	0.98 U	2.2 U	2.2 U
	09/17/02	0.91 U	**9.4**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**3,500**	1.3 U	2 U	**1,300**	1.2 U	**720**	0.98 U	2.2 U	2.2 U
	12/16/02	5 U	**9.3**	20 U	5 U	5 U	5 U	5 U	5 U	**3,600**	5 U	20 U	**430**	5 U	**1,300**	5 U	5 U	5 U
MW-12 (continued)	03/17/03	0.46 U	**5.5**	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**2,500**	0.65 U	**1.5 J**	**460**	0.57 U	**1,200**	0.49 U	1.1 U	1.1 U
	06/10/03	0.91 U	**4.8 J**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,200**	1.3 U	2 U	**2,100**	1.2 U	**1,500**	0.98 U	2.2 U	2.2 U
	09/10/03	0.91 U	**4.5 J**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,400**	1.3 U	2 U	**900**	1.2 U	**3,500**	**1.0 JB**	2.2 U	**12**
	12/05/03	0.46 U	**4.7**	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**2,000**	0.65 U	**1.3 J**	**1,500**	0.57 U	**2,100**	0.49 U	1.1 U	**37**
	03/16/04	0.37 U	**4.8**	0.57 U	0.46 U	0.5 U	0.42 U	0.91 U	0.39 U	**2,500**	0.52 U	0.78 U	**2,100**	0.46 U	**1,200**	0.39 U	1.2 U	**57**
	09/22/04	0.46 U	**4.1**	0.71 U	0.57 U	0.62 U	0.53 U	1.2 U	0.48 U	**2,300**	0.65 U	0.97 U	**880**	0.57 U	**1,700**	0.49 U	1.1 U	**60**
	04/04/05	0.51 U	**3.2**	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**2,200**	0.65 U	0.97 U	**760**	0.58 U	**1,000**	0.54 U	1.1 U	**18**
	09/20/05	1.1 U	**4.4 J**	1.5 U	1.2 U	1.4 U	1.4 U	2.3 U	1.4 U	**2,800**	1.3 U	2 U	**390**	1.2 U	**1,500**	1.1 U	2.2 U	**38**
	03/14/06	0.51 U	**2.4 J**	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**1,700**	0.65 U	0.97 U	**1,100**	0.58 U	**500**	0.54 U	1.1 U	**15**
	09/13/06	**0.15 J**	**4.2**	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**2,600**	0.13 U	0.2 U	**400**	0.12 U	**1,400**	0.11 U	0.22 U	**54**
	04/04/07	0.51 U	**1.5 J**	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**1,200**	0.65 U	0.97 U	**1,200**	0.58 U	**450**	0.54 U	1.1 U	**3.8**
	09/26/07	0.51 U	**3.0**	0.71 U	0.57 U	0.7 U	0.68 U	1.2 U	0.68 U	**1,700**	0.65 U	0.97 U	**470**	0.58 U	**1,100**	0.54 U	1.1 U	**39**
	05/01/08	0.11 U	**1.4**	0.093 U	0.19 U	0.11 U	**0.15 J**	0.33 U	**0.15 J**	**1,000**	0.11 U	0.58 U	**850**	0.13 U	**390**	**0.18 JB**	0.2 U	**5.9**
	09/30/08	0.42 U	**2.7 J**	0.37 U	0.73 U	0.42 U	0.45 U	1.3 U	0.42 U	**1,500**	0.42 U	2.3 U	**580**	0.5 U	**780**	0.48 U	0.78 U	**54**
	03/26/09	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U	**843**	25 U	25 U	**710**	25 U	**600**	25 U	25 U	**93**
	09/29/09	5.0 U	**4.5 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	**2,200**	5.0 U	5.0 U	**320**	5.0 U	**1,400**	5.0 U	5.0 U	**150**
	04/01/10	0.5 U	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**260**	0.5 U	0.5 U	**400**	0.5 U	**170**	0.5 U	0.5 U	**9.4**
	09/28/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**334**	0.5 U	0.5 U	**377**	0.5 U	**232**	0.5 U	0.5 U	**17.2**

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
MW-23	09/13/06	**0.36 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.96**	0.13 U	0.2 U	**0.28 J**	0.12 U	0.14 U	0.11 U	0.22 U	**0.09 J**
	04/04/07	**0.14 J**	0.13 U	0.15 U	0.12 U	**0.21 J**	0.14 U	0.23 U	0.14 U	**3.2**	0.13 U	0.2 U	**1.8**	0.12 U	**0.22 J**	0.11 U	0.22 U	**0.09 J**
	09/25/07	**0.25 J**	0.13 U	0.15 U	0.12 U	**0.14 J**	0.14 U	0.23 U	0.14 U	**2.4**	0.13 U	0.2 U	**1.7**	0.12 U	**0.17 J**	0.11 U	0.22 U	**0.13 J**
	09/25/07 (DUP)	**0.26 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**2.1**	0.13 U	0.2 U	**1.9**	0.12 U	**0.17 J**	0.11 U	0.22 U	**0.12 J**
	05/01/08	**0.18 J**	**0.18 J**	0.037 U	0.073 U	**0.12 J**	0.045 U	0.13 U	0.042 U	**3.2**	0.042 U	0.23 U	**2.9**	0.05 U	**0.25 J**	**0.07 JB**	0.078 U	**0.08 J**
	10/01/08	**0.26 J**	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	**1.7**	0.042 U	0.23 U	**3.3**	0.05 U	**0.23 J**	**0.17 JB**	0.078 U	**0.10 J**
	03/24/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.9**	0.5 U	0.5 U	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**
	09/29/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**1.1**	0.5 U	0.5 U	**2.2**	0.5 U	0.5 U	0.5 U	0.5 U	**0.20 J**
	04/01/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.5**	0.5 U	0.5 U	**2.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/28/10	**0.31 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	**0.63**	0.5 U	0.5 U	**1.17**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
Shallow On-Site Injection Wells																		
INJ-1	07/09/01	**9.3**	**0.65 J**	NA	0.58 U	0.62 U	0.5 U	**25**	0.48 U	**29**	NA	U	**620**	0.56 U	**97**	NA	NA	**2.9**
	11/20/01	**1.2**	0.5 U	NA	0.5 U	0.5 U	0.21 U	**2.8**	0.5 U	**8.1**	0.5 U	1 U	**17**	0.5 U	**30**	0.5 U	0.5 U	0.50 U
	06/11/02	**0.60 J**	**1.9**	0.29 U	0.23 U	0.26 U	NA	0.46 U	0.2 U	**520**	0.26 U	0.39 U	**8.5**	0.23 U	**3.7**	0.2 U	0.6 U	**0.44 J**
INJ-2	07/09/01	< 2.3 U	3 U	NA	2.9 U	3.1 U	0.5 U	4.4 U	2.4 U	**200**	NA	4.9 U	**6,300**	2.8 U	**240**	NA	NA	**5.5 J**
	10/15/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	**1.1**	**1.6**	1 U	**33**	0.5 U	**1.8**	0.5 U	**6**	0.5 U
	10/22/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	**2**	**2.9**	1 U	**57**	0.5 U	**2.8**	**0.53**	**11.3**	0.5 U
	10/29/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U	**2.9**	**1.4**	1 U	**68**	0.5 U	**4.3**	**0.65**	**6.8**	0.5 U
	11/19/01	<0.5 U	0.5 U	NA	0.5 U	0.5 U	1.1 U	0.50 U	0.5 U	**7.3**	**0.89**	1 U	**230**	0.5 U	**9.2**	0.5 U	**4.4**	0.5 U
	06/11/02	< 0.91 U	**5.4**	1.5 U	1.2 U	1.3 U	1.1 U	2.3 U	0.96 U	**2,100**	1.3 U	2 U	**1,000**	1.2 U	**600**	0.98 U	2.9 U	2.2 U
	06/10/03	< 0.91 U	**5.3**	1.5 U	1.2 U	1.3 U	NA	2.3 U	0.96 U	**2,100**	1.3 U	2 U	**2,700**	1.2 U	**610**	**1.1 JB**	2.9 U	2.2 U
INJ-3	07/09/01	**3.4**	**0.95 J**	NA	0.58 U	0.62 U	1 U	**5.9**	0.48 U	**39**	NA	0.97 U	**520**	0.56 U	**250**	NA	NA	**7.3**
	11/20/01	1.0 U	1.0 U	NA	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	**49**	1.0 U	2 U	**670**	1.0 U	**130**	1.0 U	1.0 U	**1.8**
	06/11/02	**1.2 J**	**3.4**	0.71 U	0.57 U	0.62 U	**1.3**	1.2 U	0.48 U	**1,200**	0.65 U	0.97 U	**530**	0.57 U	**240**	0.49 U	1.5 U	**180**
	12/17/02	**2.0**	**0.53**	2 U	0.5 U	0.5 U	**1.2**	0.50 U	0.5 U	**250**	0.5 U	2 U	**150**	0.5 U	**100**	0.5 U	0.5 U	**90**
	12/17/02 (DUP)	**1.9**	**0.6**	2 U	0.5 U	0.5 U	0.21 U	0.50 U	0.5 U	**270**	0.5 U	2 U	**180**	0.5 U	**120**	0.5 U	0.5 U	**91**
	06/10/03	**0.40 J**	**0.98 J**	0.29 U	0.23 U	0.25 U	0.11 U	**2.2**	0.2 U	**350**	0.26 U	0.39 U	**390**	0.23 U	**140**	**0.8 B**	0.44 U	**78**
Deep On-Site Monitoring Wells and Piezometer																		
MW-13	03/31/03	**2,700**	**320**	**260**	25 U	25 U	25 U	**260**	25 U	**23,000**	**1,600**	100 U	25 U	**2,900**	25 U	**21,000**	**6,900**	**1,100**
	05/14/03	**3,600**	**440**	**320**	12 U	13 U	11 U	**440**	9.6 U	**25,000**	**1,900**	**23 J**	11 U	**3,700**	12 U	**21,000**	**8,100**	**1,200**
	06/11/03	**3,900**	**440**	**370**	12 U	13 U	11 U	**490**	9.6 U	**26,000**	**2,300**	**25 J**	11 U	**3,600**	12 U	**20,000**	**9,800**	**1,200**
	06/11/03 (DUP)	**4,000**	**450**	**410**	12 U	13 U	11 U	**470**	9.6 U	**29,000**	**2,500**	**30 J**	11 U	**3,800**	12 U	**22,000**	**10,600**	**1,300**
	09/11/03	**4,400**	**460**	**400**	5.7 U	6.2 U	**5.5 J**	**490**	4.8 U	**30,000**	**2,400**	**25 J**	5.5 U	**4,100**	5.9 U	**25,000**	**10,200**	**1,400**
	12/04/03	**5,600**	**490**	**510**	5.7 U	6.2 U	**6.5 J**	**380**	4.8 U	**33,000**	**2,900**	**25 J**	5.5 U	**3,300**	5.9 U	**29,000**	**12,300**	**1,800**
	03/15/04	**6,200**	**490**	**540**	5.7 U	6.2 U	**7 J**	**310**	4.8 U	**38,000**	**2,900**	**26 J**	5.5 U	**2,900**	5.9 U	**32,000**	**14,000**	**1,700**
	06/10/04	**5,300**	**470**	**310**	12 U	13 U	11 U	**260**	9.6 U	**31,000**	**2,300**	**58 J**	11 U	**2,800**	12 U	**25,000**	**10,300**	**2,200**
	09/23/04	**4,500**	**370**	**320**	12 U	13 U	11 U	**380**	9.6 U	**22,000**	**2,000**	**25 J**	11 U	**2,600**	12 U	**17,000**	**8,900**	**2,100**
	04/05/05	**100**	**7.4**	**5.7**	0.12 U	0.14 U	0.14 U	**5.3**	0.14 U	**470**	**34**	**0.39 J**	**0.23 J**	**26**	0.14 U	**210**	**120**	**86**
	09/21/05	**930**	**44**	**70**	**0.5 J**	0.28 U	**1.4**	**340**	0.28 U	**2,900**	**620**	**3.2 J**	**0.48 J**	**280**	**0.28 J**	**2,900**	**2,570**	**740**
	03/15/06	**1,100**	**13**	**79**	2.3 U	2.8 U	2.8 U	**450**	54 U	**1,100**	**580**	**12 J**	2.6 U	**220**	2.7 U	**3,400**	**2,830**	**1,900**
	09/14/06	**1,300**	**65**	**130**	5.7 U	7 U	6.8 U	**860**	6.8 U	**5,400**	**990**	**10 J**	6.3 U	**150**	6.7 U	**7,100**	**4,900**	**1,900**
	04/04/07	**2,800**	**130**	**300**	5.7 U	7 U	6.8 U	**350**	6.8 U	**11,000**	**1,800**	**18 J**	6.3 U	**73**	6.7 U	**13,000**	**8,000**	**1,800**
	09/25/07	**1,600**	**89**	**250**	2.9 U	3.5 U	3.4 U	**480**	3.4 U	**6,700**	**1,400**	**8.3 J**	3.2 U	**100**	3.4 U	**9,800**	**6,200**	**1,500**
	05/02/08	**1,300**	**71**	**290**	1.5 U	0.84 U	**2.4 J**	**680**	0.84 U	**5,600**	**1,600**	**8.2 J**	**1.8 J**	**50**	1.3 U	**9,300**	**6,800**	**2,900**
	09/30/08	**1,100**	**72**	**230**	1.9 U	1.1 U	**1.3 J**	**550**	1.1 U	**6,800**	**1,500**	5.8 U	2 U	**60**	1.6 U	**7,800**	**6,300**	**1,600**
	03/25/09	**1,050**	**46**	**280**	25 U	25 U	25 U	**800**	50 U	**3,900**	**1,700**	25 U	25 U	25 U	25 U	**8,600**	**6,650**	**2,300**
	09/30/09	**240**	25 U	**110**	25 U	25 U	25 U	**1,200**	50 U	**86**	**1,100**	25 U	25 U	25 U	25 U	**5,000**	**5,000**	**300**
MW-13 (continued)	03/29/10	**180**	10 U	**86**	10 U	10 U	10 U	**280**	20 U	**500**	**710**	10 U	10 U	10 U	10 U	**2,200**	**1,700**	**900**
	03/29/10 (LAB DUP)	**200**	10 U	**110**	10 U	10 U	10 U	**310**	20 U	**580**	**810**	10 U	10 U	10 U	10 U	**2,400**	**1,900**	**890**
	04/07/10	**480**	10 U	**540**	10 U	10 U	10 U	**480**	20 U	**1,800**	**2,100**	10 U	10 U	10 U	10 U	**4,600**	**4,200**	**2,700**
	04/16/10	**1,100**	**20**	**640**	10 U	10 U	10 U	**840**	20 U	**3,300**	**2,800**	10 U	10 U	10 U	10 U	**5,400**	**5,800**	**4,000**
	05/06/10	**820**	**11**	**340**	10 U	10 U	10 U	**640**	20 U	**1,900**	**2,000**	10 U	5.0 U	10 U	5.0 U	**6,200**	**4,900**	**3,100**
	06/09/10	**720**	**11**	**280**	10 U	10 U	10 U	**1,200**	20 U	**1,500**	**1,800**	10 U	**20**	10 U	5.0 U	**5,600**	**3,900**	**4,700**
	07/06/10	**510**	**9.5**	**280**	10 U	10 U	10 U	**1,400**	20 U	**1,300**	**1,700**	10 U	5.0 U	10 U	5.0 U	**8,300**	**3,500**	**6,500**
	09/30/10	**71.0**	10 U	**130**	10 U	10 U	10 U	**820**	20 U	**56.8**	**1,010**	**10.8**	5.0 U	10 U	5.0 U	**4,180**	**2,560**	**221**
MW-14	10/30/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	12/04/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	03/16/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.21 J**	0.22 U	0.22 U
	06/10/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.10 J**	**0.31 J**	0.22 U
	09/24/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	04/05/05	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.28 J**	0.22 U	0.22 U
	09/21/05	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.14 J**	0.22 U	0.042 U
	03/14/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.12 J**	0.22 U	0.042 U
	09/13/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**1.3**	0.22 U	0.042 U
	04/04/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	09/26/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	0.042 U
	05/02/08	**0.07 J**	0.1 U	**0.05 J**	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	0.042 U	0.23 U	0.077 U	0.05 U	0.061 U	**0.14 JB**	**0.18 J**	0.071 U
	09/30/08	**0.05 J**	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	**0.06 J**	0.23 U	0.077 U	0.05 U	**0.12 J**	**0.26 JB**	**0.31 J**	0.071 U
	03/23/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/23/09 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/29/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	09/30/10 (LAB DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-15	10/30/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	**0.14 J**	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	**0.29 J**
	12/04/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	**0.14 J**	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	**0.35 J**
	03/16/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	**0.14 J**	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.17 J**	0.22 U	**0.24 J**
	06/10/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	**0.22 J**	**0.23 J**
	09/24/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	**3.8**	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.15 J**	0.22 U	0.22 U
	04/05/05	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.27 J**	0.22 U	0.22 U
	09/21/05	0.11 U	0.13 U	0.12 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.19 J**	0.22 U	**0.14 J**
	03/14/06	0.11 U	0.13 U	0.12 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.11 J**	0.22 U	0.042 U
	09/13/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.20 J**
	04/04/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.12 J**
	09/26/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.1 J**
	05/02/08	**0.06 J**	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	0.042 U	0.23 U	0.077 U	0.05 U	0.061 U	**0.07 JB**	0.078 U	**0.11 J**
	09/29/08	**0.06 J**	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	0.042 U	0.23 U	0.077 U	0.05 U	**0.09 J**	**0.18 JB**	**0.10 J**	**0.13 J**
	03/26/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**
	09/29/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	03/30/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U
	09/30/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
MW-16	10/30/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	**0.27 J**	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	12/05/03	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	03/16/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.12 J**	0.22 U	0.22 U
	06/10/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	0.096 U	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	**0.15 J**	0.22 U	0.22 U
	09/23/04	0.091 U	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	0.23 U	**0.1 J**	0.12 U	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
	04/05/05	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.34 J**	0.22 U	0.22 U
	09/21/05	0.11 U	0.13 U	**0.16 J**	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	**0.21 J**	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	**0.33 J**	**0.12 J**
	03/15/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.18 J**	0.22 U	**0.28 J**
	09/13/06	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	**0.45 J**	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.28 J**
	04/05/07	**0.14 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.26 J**
	09/26/07	0.11 U	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	**0.41 J**	0.12 U	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	0.22 U	**0.26 J**
	05/02/08	**0.16 J**	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	0.042 U	0.23 U	0.077 U	0.5 U	0.06 U	**0.10 JB**	0.078 U	**0.55**
	10/01/08	**0.18 J**	0.1 U	0.037 U	0.073 U	0.042 U	0.045 U	0.13 U	0.042 U	0.045 U	**0.05 J**	0.23 U	0.077 U	0.5 U	**0.10 J**	**0.24 JB**	**0.14 J**	**0.61**
	03/25/09	0.5 U	**1.2**	0.5 U	0.5 U	0.5 U	**1.3**	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.1**	**1.2**	0.5 U	**1.2**
	09/30/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**
	09/30/09 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**
	04/02/10	0.5 U	0.5 U	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	**2.6**	0.5 U	0.5 U	0.5 U	0.5 U	**6.6**	**7.9**	**0.9**
	10/01/10	**0.42 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 UJ
	10/01/10 (DUP)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.66 J**
MW-17	10/30/03	**4.3**	0.24 U	**22**	**2.1**	0.25 U	**15**	**190**	**0.34 J**	**2.8**	**260**	**1.5 J**	0.22 U	0.23 U	0.24 U	**5.8**	**1,616**	**9.1**
	12/04/03	**4.1**	0.24 U	**17**	**1.4**	0.25 U	**11**	**140**	0.2 U	0.24 U	**180**	**0.68 J**	0.22 U	0.23 U	0.24 U	**5.8**	**1,412**	**0.54 J**
	03/15/04	**5.3**	0.12 U	**29**	**2.5**	0.13 U	**21**	**230**	**0.34 J**	**13**	**170**	**2.7**	0.11 U	0.12 U	0.12 U	**9.6**	**1,428**	**57**
	06/10/04	**4.1**	0.12 U	**22**	**1.9**	0.13 U	**14**	**180**	0.096 U	**0.32 J**	**190**	**1.4 J**	0.11 U	0.12 U	0.12 U	**5.4**	**2,114**	**0.93**
	09/23/04	**3.6**	0.6 U	**21**	**1.8 J**	0.62 U	**12**	**170**	0.48 U	0.58 U	**220**	**1.8 J**	0.55 U	0.57 U	0.59 U	**4.1**	**1,616**	1.1 U
	09/23/04 (DUP)	**3.7**	0.6 U	**22**	**2.0 J**	0.62 U	**13**	**180**	0.48 U	0.58 U	**230**	**1.8 J**	0.55 U	0.57 U	0.59 U	**4.2**	**1,617**	1.1 U
	04/05/05	**2.9**	0.31 U	**16**	**1.4**	0.35 U	**11**	**140**	0.34 U	0.29 U	**120**	**0.95 J**	0.32 U	0.29 U	0.34 U	**4.6**	**1,200**	0.53 U
	09/21/05	**3.4**	0.13 U	**26**	**1.5**	0.14 U	**13**	**180**	0.14 U	**0.12 J**	**150**	**0.84 J**	0.13 U	0.12 U	0.14 U	**4.9**	**1,413**	**0.24 J**
	03/15/06	**4.1**	0.61 U	**22 J**	**2.6**	0.70 U	**19**	**280**	2.5 U	0.58 U	**200 J**	**1.7 J**	0.63 U	0.58 U	0.67 U	**3.1**	**1,614 J**	**0.55 J**
	09/12/06	**3.2**	0.13 U	**9.6**	**1.4**	0.14 U	**12**	**170**	0.14 U	**2.1**	**63**	**0.78 J**	0.13 U	0.12 U	0.14 U	**1.4**	**448**	**10**
	04/04/07	**2.9**	0.31 U	**23**	**2.6**	0.35 U	**20**	**230**	0.34 U	**0.7 J**	**75**	**1.4 J**	0.32 U	0.29 U	0.34 U	**2.1**	**1,013**	**2.3**
	09/24/07	**2.7**	0.31 U	**19**	**2.2**	0.14 U	**14**	**150**	0.14 U	0.12 U	**8.1**	**0.99 J**	0.13 U	0.12 U	0.14 U	**0.93**	**377**	**0.13 J**
	05/01/08	**2.7**	0.1 U	**12**	1.1 U	0.042 U	**7.9**	**77**	0.042 U	**0.05 J**	**50**	**0.33 J**	0.077 U	0.05 U	**0.08 J**	**1.4**	**206**	**0.10 J**
	09/29/08	**2.6**	0.1 U	**18**	**2.0**	0.042 U	**16**	**170**	0.042 U	**0.07 J**	**0.91**	**1 J**	0.077 U	0.05 U	**0.08 J**	**1.0**	**337**	**0.11 J**
	03/24/09	**2.8**	0.5 U	**20**	0.5 U	0.5 U	**14**	**140**	1.0 U	0.5 U	**270**	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**	**350**	**1.0**
	09/30/09	**9.6 J**	10 U	**24**	10 U	10 U	**54**	**990**	20 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.8 J**	**580**	**20**
	03/30/10	**1.7**	0.5 U	**7.7**	**1.3**	0.5 U	**9.0**	**110**	1.0 U	0.5 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	**75**	**0.2**
	10/01/10	**1.79**	0.5 U	**8.82**	0.5 U	0.5 U	**5.84**	**54.6**	1.0 U	0.5 U	**0.55**	**0.57 J**	0.5 U	0.5 U	0.5 U	**0.76**	**68.7**	0.2 UJ
MW-18	10/30/03	**12**	**6.2 J**	2.9 U	2.3 U	2.5 U	2.1 U	**14**	2 U	**5,400**	**14**	3.9 U	2.2 U	2.3 U	2.4 U	**120**	**93**	**7,900**
	12/04/03	**15**	**3.7 J**	1.5 U	1.2 U	1.3 U	**1.6 J**	**23**	0.96 U	**3,500**	**9**	2 U	1.1 U	1.2 U	1.2 U	**71**	**50**	**4,700**
	12/04/03 (DUP)	**14**	**3.7 J**	1.5 U	1.2 U	1.3 U	**1.6 J**	**20**	0.96 U	**3,700**	**8.5**	2 U	1.1 U	1.2 U	1.2 U	**68**	**48**	**5,400**
	03/16/04	**4.9**	0.12 U	**0.28 J**	0.12 U	0.13 U	**0.17 J**	**1.8**	0.096 U	**16**	**1.7**	0.2 U	0.11 U	0.12 U	0.12 U	**1.4**	**6.4**	**23**
	06/10/04	**2.7**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	**0.91**	0.096 U	**5**	**0.83**	0.2 U	0.11 U	0.12 U	0.12 U	**0.42 J**	**3.6**	**6.6**
	09/23/04	**2.4**	0.12 U	0.15 U	0.12 U	0.13 U	0.11 U	**1.2**	0.096 U	**4.5**	**0.86**	0.2 U	**0.16 J**	0.12 U	**0.13 J**	**0.24 J**	**3.6**	**4.4**
	04/05/05	**1.8**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	**1.4**	0.14 U	**7.2**	**0.49 J**	0.2 U	0.13 U	0.12 U	**0.44 J**	**0.33 J**	**1.4**	**5.1**
	04/05/05 (DUP)	**1.7**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	**1.3**	0.14 U	**6**	**0.46 J**	0.2 U	0.13 U	0.12 U	**0.37 J**	**0.65**	**1.3**	**4.3**
	09/20/05	**0.37 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	**0.36 J**	**62**	0.13 U	0.2 U	**2.2**	0.12 U	**2.1**	**0.35 J**	0.22 U	**5.3**
	03/15/06	**0.92**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	**0.66**	0.14 U	**0.6**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.18 J**	**1.12**	**0.85**
	09/12/06	**0.48 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	**1.0**	0.14 U	**0.77**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	**0.8 J**	**1.3**
	04/03/07	**0.31 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	0.23 U	0.14 U	**0.36 J**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	**0.15 J**	**0.71 J**	**0.36 J**
	09/24/07	**0.21 J**	0.13 U	0.15 U	0.12 U	0.14 U	0.14 U	**0.46 J**	0.14 U	**0.52**	0.13 U	0.2 U	0.13 U	0.12 U	0.14 U	0.11 U	**0.93 J**	**0.55**
	05/01/08	**0.27 J**	0.1 U	**0.10 J**	0.073 U	0.042 U	**0.07 J**	**0.25 J**	0.042 U	**0.36 J**	0.042 U	0.23 U	0.077 U	0.05 U	0.061 U	**0.25 J**	**0.79 J**	**0.34 J**
	10/01/08	**0.26 J**	0.1 U	**0.04 J**	0.073 U	0.042 U	**0.06**	**0.85**	0.042 U	**0.49 J**	**0.06 J**	0.23 U	**0.09 J**	0.05 U	**0.14 J**	**0.61 B**	**1.03 J**	**0.42 J**
	03/24/09	**2.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.0**	1.0 U	0.5 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2**	**1.1**
	09/30/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**
	03/30/10	**1.1**	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**4.5**	1.0 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**0.09 J**

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloropropane	Benzene	Chloroethane	Chloroform	cis-1,2-DCE	Ethylbenzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	09/28/10	0.34 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.39	1.0 U	4.40	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.26 J	0.62	5.33
MW-19	02/20/04	11	0.12 U	1.3 J	0.12 U	0.13 U	3.1 J	11	0.096 U	0.51	13	0.23 J	0.11 U	0.12 U	0.12 U	180	73	3
	03/16/04	9.2	0.12 U	0.9 J	0.12 U	0.13 U	3.0	5.8	0.096 U	0.32 J	9.5	0.2 U	0.11 U	0.12 U	0.12 U	110	42	12
	03/16/04 (DUP)	9.6	0.12 U	1.0 J	0.12 U	0.13 U	3.0	6.1	0.096 U	0.39 J	10	0.2 U	0.11 U	0.12 U	0.12 U	99	44	12
	06/10/04	1.4	0.12 U	0.15 U	0.12 U	0.13 U	1.6	0.23 U	0.096 U	2.7	0.47 J	0.2 U	0.11 U	0.12 U	0.12 U	1.3	2.06	42
	09/23/04	3.4	0.12 U	0.19 J	0.12 U	0.13 U	1.2	2.7	0.096 U	4.1	2.4	0.2 U	0.11 U	0.12 U	0.12 U	17	10.4	38
	04/05/05	1.9	0.13 U	0.15 U	0.12 U	0.14 U	1.2	0.28 J	0.14 U	11	0.27 J	0.2 U	0.13 U	0.12 U	0.14 U	1.2	0.49 J	44
	09/21/05	2.2	0.79	0.47 J	0.12 U	0.14 U	1.4	1.2	0.14 U	74	2.4	0.2 U	0.13 U	0.12 U	1.3	1.1	6.9	47
	03/15/06	1.6	0.13 U	0.15 U	0.12 U	0.14 U	1.1	0.34 J	0.14 U	9.7	0.39 J	0.2 U	0.13 U	0.12 U	1.1	0.55	1.92	30
	09/12/06	2.6	0.13 U	1.1 J	0.12 U	0.14 U	1.4	4.5	0.14 U	18	7.9	0.2 U	0.13 U	0.12 U	0.14 U	1.1	18.2	20
	04/03/07	2.0	0.13 U	0.71 J	0.12 U	0.14 U	1.1	0.90	0.14 U	39	1.4	0.2 U	0.13 U	0.12 U	0.14 U	0.58	12.6	72
	09/24/07	1.1	0.13 U	0.84 J	0.12 U	0.14 U	0.9	0.92	0.14 U	3.9	0.97	0.2 U	0.13 U	0.12 U	0.14 U	0.62 J	11.5	37
	05/02/08	1.9	0.1 U	1.8 J	0.073 U	0.042 U	1.0	1.6	0.042 U	0.18 J	0.58	0.23 U	0.077 U	0.05 U	0.061 U	0.59 B	21.4	1.6
	10/01/08	0.84	0.1 U	0.49 J	0.073 U	0.042 U	0.77	0.96	0.042 U	30	0.1 J	0.23 U	0.077 U	0.05 U	0.10 J	0.44 JB	4.17	75
	03/23/09	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.50 U	1.0 U	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5	2.3
	09/29/09	2.4	0.5 U	0.5 U	0.5 U	0.5 U	0.9	3.2	1.0 U	2.3	3.0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.1	18
	03/30/10	0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.7	2.4	1.0 U	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.2	5.0
	03/30/10 (LAB DUP)	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.7	2.4	1.0 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.6	4.4
	09/28/10	1.06	0.5 U	2.00	0.5 U	0.5 U	0.93	10.4	1.0 U	24.0	2.08	0.5 U	0.5 U	0.5 U	0.5 U	6.43	8.11	97.2
MW-21	09/14/06	1,700	71	210	5.7 U	7 U	6.8 U	210	6.8 U	8,400	1,700	15 J	160	1,200	190	9,300	8,100	1,500
	09/14/06 (DUP)	1,600	63	200	5.7 U	7 U	6.8 U	210	6.8 U	8,500	1,600	15 J	140	1,000	160	9,300	7,400	1,400
	04/04/07	2,200	57	260	0.5 J	0.35 U	1.3 J	140	0.8 J	8,400	1,900	12	2.5	470	16	11,000	7,600	1,500
	09/25/07	2,400	42	220	2.9 U	3.5 U	3.4 U	230	3.4 U	5,900	1,500	15 J	3 U	100	3.4 U	7,400	6,300	3,100
	05/02/08	2,200	32	190	1.5 U	0.84 U	1.6 J	440	0.84 U	4,000	1,400	9 J	2 U	59	1.3 U	7,000	6,100	3,800
	09/30/08	780	15	220	1.9 U	1.1 U	1.2 U	1,000	1.1 U	2,500	1,700	10 J	2 U	9 J	1.6 U	6,100	7,200	2,600
	03/25/09	700	9.5	240	25 U	25 U	12	1,600	50 U	1,200	1,800	25 U	25 U	8.5 J	7.5	5,800	7,500	1,900
	09/30/09	10 U	25	280	10 U	10 U	10 U	2,600	20 U	4,100	2,100	10 U	10 U	37	10 U	6,200	8,100	8,200
	03/26/10	10 U	10 U	58	0.5 U	0.5 U	18	400	1.0 U	280	740	0.5 U	0.5 U	8.8 J	0.5 U	2,400	1,800	350
	04/16/10	810	19	190	10 U	10 U	10 U	1,400	20 U	3,800	1,600	10 U	10 U	70	10 U	4,700	3,800	2,100
	05/06/10	220	5.0 U	190	10 U	10 U	10 U	1,200	20 U	370	1,900	10 U	5.0 U	34	5.0 U	5,400	4,600	490
	05/06/10 (DUP)	210	5.0 U	180	10 U	10 U	10 U	1,200	20 U	380	1,800	10 U	5.0 U	34	5.0 U	5,400	4,600	520
	06/09/10	110	5.0 U	49	10 U	10 U	10 U	1,000	20 U	67	540	10 U	5.0 U	16	5.0 U	3,200	1,400	150
	07/06/10	90	5.0 U	98	10 U	10 U	10 U	1,600	20 U	42	640	10 U	5.0 U	13	5.0 U	5,500	1,600	210
	07/06/10 (LAB DUP)	80	5.0 U	76	10 U	10 U	10 U	1,500	20 U	34	670	10 U	5.0 U	11	5.0 U	5,000	1,500	170
	09/30/10	90.6	5.0 U	142	10 U	10 U	10 U	1,120	20 U	131	1,120	11.0	5.0 U	10 U	5.0 U	4,890	2,880	243
MW-22	09/14/06	1,500	14 J	130	5.7 U	7 U	6.8 U	1,700	6.8 U	1,900	1,300	9.7 U	6.3 U	5.8 U	6.7 U	7,700	5,900	2,600
	04/04/07	3,700	22 J	330	5.7 U	7 U	6.8 U	610	6.8 U	3,300	2,300	9.7 U	6.3 U	5.8 U	6.7 U	17,000	9,900	4,800
	04/04/07 (DUP)	3,600	22 J	330	5.7 U	7 U	6.8 U	610	6.8 U	3,100	2,300	9.7 U	6.3 U	5.8 U	6.7 U	17,000	9,900	4,600
	09/26/07	370	18	130	1.2 U	5 U	3 J	1,800	1.4 U	1,600	920	2.2 J	1.3 U	8.2	1.4 U	4,000	3,650	1,100
	05/02/08	780	7.2 J	200	1.5 U	0.84 U	3.6 J	2,100	0.84 U	540	1,400	7.6 J	1.6 U	1 U	1.3 U	7,000	5,800	1,400
	10/01/08	12	0.5 U	52	0.85 J	0.21 U	1.6 J	1,100	0.21 U	7.9	610	1.5 J	0.39 U	0.25 U	0.31 U	38	2,170	30
	10/01/08 (DUP)	12	1 U	61	1.0 J	0.42 U	1.7	1,100	0.42 U	6.9	650	2.3 U	0.77 U	0.5 U	0.61 U	34	2,290	27
	03/25/09	72	0.5 U	140	0.5 U	0.5 U	19	1,400	1.0 U	11	960	0.5 U	0.5 U	0.5 U	0.5 U	1,600	3,700	160
	09/30/09	17 J	25 U	39	25 U	25 U	25 U	1,100	50 U	17 J	730	25 U	25 U	25 U	25 U	170	3,100	960
	03/29/10	24	0.5 U	44	0.5 U	0.5 U	0.5 U	480	1.0 U	0.5 U	650	10 U	25 U	0.5 U	0.5 U	840	1,500	7.4
	09/30/10	10 U	0.5 U	45.2	10 U	10 U	10 U	611	20 U	2.6 J	296	10.8	5.0 U	10 U	5.0 U	24.4	751	2.0 UJ
MW-24	03/26/10	540	17	230	0.5 U	0.5 U	0.9	160	4.5	4,100	1,900	0.5 U	0.5 U	680	160	4,800	3,600	1,200
	04/16/10	260	10 U	18	10 U	10 U	10 U	1,100	20 U	80	1,300	10 U	10 U	10 U	5.0 U	3,800	3,300	320
	05/06/10	820	5.0 U	72	10 U	10 U	10 U	900	20 U	930	1,800	10 U	5.0 U	10 U	5.0 U	6,200	4,000	1,900
	05/06/10 (LAB DUP)	850	5.0 U	71	10 U	10 U	10 U	970	20 U	980	1,800	10 U	5.0 U	10 U	5.0 U	6,800	4,400	2,000
	06/09/10	1,300	22	130	10 U	10 U	10 U	89	20 U	2,200	1,600	10 U	2.2 J	97	5.2	5,900	3,600	3,400
	07/06/10	940	14	180	10 U	10 U	10 U	1,200	20 U	2,100	1,200 J	10 U	5.0 U	120	5.0 U	7,300	2,900	4,200
	7/6/10 (DUP)	1,100	14	140	10 U	10 U	10 U	1,100	20 U	2,400	830 J	10 U	5.0 U	130	5.0 U	6,600	2,300	3,400
MW-25	03/29/10	25	0.5 U	160	0.9	0.5 U	1.9	410	1.1	2.2	940	0.5 U	0.5 U	0.5 U	0.4	1,200	1,600	2.7
	04/07/10	48	10 U	180	10 U	10 U	10 U	730	20 U	10 U	1,700	10 U	10 U	10 U	10 U	3,100	2,900	12
	04/16/10	74	10 U	310	10 U	10 U	10 U	1,900	20 U	10 U	2,200	10 U	10 U	10 U	10 U	4,100	5,100	10
	4/16/10 (LAB DUP)	70	10 U	290	10 U	10 U	10 U	1,800	20 U	10 U	2,100	10 U	10 U	10 U	10 U	4,000	5,000	9.2
	05/06/10	32	5.0 U	130	10 U	10 U	10 U	1,100	20 U	5.0 U	1,200	10 U	5.0 U	10 U	5.0 U	2,900	3,200	2.0
	06/09/10	29	5.0 U	110	10 U	10 U	10 U	820	20 U	5.0 U	680	10 U	21	10 U	5.0 U	1,200	1,700	2.0 U
	07/06/10	25	0.5 U	79	0.5 U	0.5 U	0.5 U	640	1.0 U	0.5 U	480	0.5 U	2.9	0.5 U	0.5 U	800	980	4.0
MW-26	04/01/10	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	20	0.5 U	0.5 U	380	0.5 U	37	0.5 U	0.5 U	0.2 U
	04/09/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10	10 U	10 U	570	10 U	28	10 U	10 U	6.4
	4/9/10 (LAB DUP)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10	10 U	10 U	550	10 U	27	10 U	10 U	6.2
	04/16/10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	16	10 U	10 U	320	10 U	32	10 U	10 U	8.8
	05/06/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	11	10 U	10 U	300	10 U	28	10 U	10 U	5.2
	06/09/10	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	20 U	14	10 U	10 U	350	10 U	31	10 U	10 U	12
	07/06/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.0 U	12	0.5 U	0.5 U	300	0.5 U	29	0.5 U	0.5 U	9.0
P-1	09/24/04	0.28 J	0.12 U	0.15 U	0.12 U	0.13 U	NA	0.23 U	0.096 U	1.2	0.13 U	0.2 U	0.11 U	0.12 U	0.12 U	0.098 U	0.22 U	0.22 U
Deep Off-Site Monitoring Well																		
MW-20	07/28/05	1.6	0.5 U	2 U	0.5 U	0.5 U	18	140	0.5 U	0.5	4.3	2 U	0.5 U	0.5 U	0.5 U	1.7	124	0.5 U
	09/20/05	0.39 J	0.13 U	1.1 J	0.12 U	0.14 U	16	130	0.14 U	0.14 U	1.4	0.57 J	0.13 U	0.12 U	0.14 U	1.5	92	0.14 J
	9/20/05 (DUP)	0.35 J	0.13 U	1.0 J	0.12 U	0.14 U	16	130	0.14 U	0.15 J	1.5	0.57 J	0.13 U	0.12 U	0.14 U	1.4	91.9	0.16 J
	03/15/06	1.7 J	0.13 U	0.87 J	0.12 U	0.14 U	16	140	0.14 U	0.12 J	3.0	0.86 J	0.13 U	0.12 U	0.14 U	1.5	144	0.23 J
	09/12/06	0.12 J	0.13 U	0.44 J	0.12 U	0.14 U	15	140	0.14 U	0.15 J	0.17 J	0.56 J	0.13 U	0.12 U	0.14 U	0.86	35	0.22 J

Table D2
Indicator Hazardous Substances in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	1,1-DCA	1,1-DCE	1,2,4-TMB	1,2-DCA	1,2-Dichloro-propane	Benzene	Chloro-ethane	Chloro-form	cis-1,2-DCE	Ethyl-benzene	Methylene Chloride	PCE	1,1,1-TCA	TCE	Toluene	Total Xylenes	Vinyl Chloride
	Solubility in Water:	5,100,000	3,350,000	LNAPL	8,690,000		0.8	LNAPL	8,200,000	3,500,000	LNAPL	20,000,000	200,000	720,000	1,100,000	1,000	LNAPL	LNAPL
	Final Cleanup Levels	800	7.0	400	0.5	0.64	0.8	-	7.2	70	700	5.0	0.86	200	4.0	1,000	1,600	0.5
	04/05/07	**0.93 J**	0.13 U	**1.2 J**	0.12 U	0.14 U	**15**	**88**	0.14 U	**0.15 J**	**0.57**	**0.74 J**	0.13 U	0.12 U	0.14 U	**1.6**	**114**	**0.21 J**
	09/26/07	0.11 U	0.13 U	**0.96 J**	0.12 U	0.14 U	**13**	**85**	0.14 U	**0.12 J**	**0.22 J**	**0.46 J**	0.13 U	0.12 U	0.14 U	**1.2**	**22.7**	**0.13 J**
	05/02/08	**0.19 J**	0.1 U	**0.81 J**	0.34 U	0.042 U	**11**	**76**	0.042 U	**0.16 J**	**0.26 J**	**0.46 J**	0.077 U	0.05 U	**0.07 J**	**0.93**	**71**	**0.14 J**
	5/2/08 (DUP)	**0.18 J**	0.1 U	**0.85 J**	0.34 U	0.042 U	**12**	**72**	0.042 U	**0.11 J**	**0.29 J**	**0.46 J**	0.077 U	0.05 U	0.061 U	**1.0**	**75.2**	**0.15 J**
	09/29/08	0.04 U	0.1 U	**0.47**	0.073 U	0.042 U	**15**	**110**	0.042 U	**0.13 J**	**0.17 J**	**0.53 J**	0.077 U	0.05 U	0.061 U	**1.2**	**8.9**	**0.13 J**
	03/23/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**13**	**89**	1.0 U	0.5 U	**65**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	**86**	**1.0**
	09/30/09	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**14**	**190**	1.0 U	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**4.0**	**0.31 J**
	03/29/10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**18 J**	**140**	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**	**7.1**	**0.2**
	10/01/10	0.5 U	0.5 U	**1.27**	0.5 U	0.5 U	**15.2**	**195**	1.0 U	0.5 U	0.5 U	**0.73 J**	0.5 U	0.5 U	0.5 U	**0.94**	**4.26**	**0.12 J**

Notes:
All results in ug/L.
1995 analyses performed using EPA Method 8240A.
Analyses since 1996 performed using EPA Method 8260A.
Only indicator hazardous substances shown.
Detections shown in bold.
Shaded results above their respective cleanup level.
U = not detected above associated method reporting limit.
NA = not analyzed or not quantitated
DUP = duplicate sample collected in the field and blind labeled.
LAB DUP = laboratory duplicate sample.
B = the analyte was also detected in an associated blank.
J = the associated numerical value is an estimated quantity based on data review or laboratory estimate above the MDL but below the MRL.

E = laboratory estimated concentration.
Results from June 2000 and from December 2000 to September 2008 are reported relative to the method detection limits (MDLs).
1,2,4-TMB = 1,2,4-trimethylbenzene.
1,1-DCA = 1,1-dichlorethane.
1,2-DCA = 1,2-dichlorethane.
1,1-DCE = 1,1-dichlorethene.
cis-1,2-DCE = cis-1,2-dichloroethene.
TCA = 1,1,1-trichloroethane.
TCE = trichloroethene.
PCE = tetrachloroethene.

Table D3
General Chemistry Parameters in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	Anions (EPA Method 300.0)				Sulfide	Total Alkalinity		Total Organic Carbon	Total Manganese	Total Iron		Ferrous Iron	TDS
		Chloride	Bromide	Nitrate as Nitrogen	Sulfate	Hach Method 8131 or SM 4500-S2-F	Hach Method AL AP MG-L	SM 2320B	EPA Method 415.1 or SM 5310B	EPA Method 6010A/6010B	EPA Method 6010A/6010B	Hach Method 8008	Hach Method 8146	EPA Method 160.1
Shallow On-Site Monitoring Wells														
MW-1	09/04/96	130	NA	NA	88.0	NA	NA	NA	NA	2.1	29.6	NA	NA	990
	12/15/98	68.5	NA	< 0.2	4.3	0.070	500	NA	47.0	NA	NA	23.4	24.6	NA
	03/02/99	64.5	NA	0.2	5.8	0.266	540	NA	37.0	NA	NA	29.4	18.2	NA
	06/17/99	49	NA	0.3	6.7	0.110	460	NA	40.5	NA	NA	24.0	20.8	NA
	09/16/99	59.8	NA	< 0.2	7.2	0.249	400	NA	42.1	NA	NA	11.0	18.8	NA
	09/18/02	NA	NA	NA	NA	NA	NA	NA	37	NA	NA	NA	NA	NA
MW-2	09/04/96	18.0	NA	NA	0.3	NA	NA	NA	NA	3.21	112	NA	NA	576
	12/15/98	13.6	NA	0.3	5.3	0.017	260	NA	26.4	NA	NA	23.9	30.4	NA
	03/02/99	14.3	NA	0.9	13.1	0.037	360	NA	22.8	NA	NA	46.4	23.0	NA
	06/16/99	13	NA	1.0	7.5	0.054	420	NA	24.2	NA	NA	86.5	66.7	NA
	06/16/99 (DUP)	12.2	NA	1.3	12.8	NA	NA	NA	25.1	NA	NA	NA	NA	NA
	09/16/99	14.6	NA	< 0.2	< 0.2	0.037	400	NA	27.2	NA	NA	94.6	61.9	NA
	09/18/02	NA	NA	NA	NA	NA	NA	NA	33	NA	NA	NA	NA	NA
MW-3	09/04/96	26.0	NA	NA	0.9	NA	NA	NA	NA	3.17	36.3	NA	NA	952
	09/04/96 (DUP)	26.0	NA	NA	1.1	NA	NA	NA	NA	3.13	38.5	NA	NA	976
	12/14/98	29.8	NA	< 0.2	< 0.2	< 0.001	660	NA	44.5	NA	NA	34.4	34.2	NA
	03/03/99	25.6	NA	< 0.2	0.3	0.013	640	NA	52.8	NA	NA	33.0	31.7	NA
	06/17/99	17.1	NA	< 0.2	< 0.2	0.013	640	NA	57.9	NA	NA	59.7	38.0	NA
	09/17/99	14.5	NA	< 0.2	< 0.2	0.047	520	NA	62.4	NA	NA	100.1	47.7	NA
MW-4	09/04/96	110	NA	NA	37.0	NA	NA	NA	NA	9.89	83.9	NA	NA	796
	12/14/98	89.7	NA	< 0.2	15.6	0.026	840	NA	23.4	NA	NA	59.8	59.1	NA
	03/03/99	45.0	NA	< 0.2	183	0.880	900	NA	12.8	NA	NA	12.9	7.5	NA
	06/17/99	60.9	NA	0.3	61.7	0.159	840	NA	18.2	NA	NA	6.99	4.75	NA
	09/17/99	77.3	NA	< 0.2	2.0	0.071	870	NA	18.4	NA	NA	24.3	13.4	NA
	09/18/02	NA	NA	NA	NA	NA	NA	NA	19	NA	NA	NA	NA	NA
MW-5	09/04/96	17.0	NA	NA	32	NA	NA	NA	NA	0.34	0.107	NA	NA	332
	12/15/98	17.5	NA	< 0.2	17.3	0	200	NA	7.8	NA	NA	0.090	0.024	NA
	03/02/99	6.9	NA	2.4	22.0	0.002	145	NA	4.8	NA	NA	0.137	0.060	NA
	06/16/99	6.2	NA	2.5	20.5	0.002	180	NA	6.0	NA	NA	0.125	0.042	NA
	09/16/99	6.8	NA	1.5	20.7	0.001	160	NA	5.9	NA	NA	0.052	0.008	NA
	09/16/99 (DUP)	6.2	NA	1.5	20.4	NA	NA	NA	5.9	NA	NA	NA	NA	NA
	09/18/02	NA	NA	NA	NA	NA	NA	NA	7.2	NA	NA	NA	NA	NA
	09/13/06	NA	NA	0.6	34.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/01/10	NA	< 0.1	NA	NA	NA	NA	NA	6.3	NA	NA	NA	NA	NA
	04/09/10	NA	< 0.1	NA	NA	NA	NA	NA	5.7	NA	NA	NA	NA	NA
	04/16/10	NA	< 0.1	NA	NA	NA	NA	NA	6.0	NA	NA	NA	NA	NA
	04/16/10 (LAB DUP)	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	05/06/10	NA	< 2.0	NA	NA	NA	NA	NA	5.9	NA	NA	NA	NA	NA
	06/09/10	NA	< 0.1	NA	NA	NA	NA	NA	5.0	NA	NA	NA	NA	NA
	07/06/10	NA	< 0.1	NA	NA	NA	NA	NA	4.8	NA	NA	NA	NA	NA
	07/06/10	NA	NA	NA	NA	NA	NA	NA	5.6	NA	NA	NA	NA	NA
MW-6	09/04/96	340	NA	NA	0.6	NA	NA	NA	NA	9.28	222	NA	NA	1,260
	12/15/98	199	NA	< 0.2	11.7	0.014	460	NA	22.6	NA	NA	114	125	NA
	03/02/99	213	NA	0.6	19.8	0.015	500	NA	15.8	NA	NA	170	63	NA
	03/02/99 (DUP)	208	NA	0.6	46.6	NA	NA	NA	15.9	NA	NA	NA	NA	NA
MW-6 (continued)	06/16/99	232	NA	0.3	11.6	0.009	520	NA	21	NA	NA	192	120	NA
	09/16/99	130	NA	< 0.5	27.3	0.047	480	NA	18.5	NA	NA	169	95	NA

Table D3
General Chemistry Parameters in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

Sample Location	Date Collected	Anions (EPA Method 300.0) Chloride	Anions (EPA Method 300.0) Bromide	Anions (EPA Method 300.0) Nitrate as Nitrogen	Anions (EPA Method 300.0) Sulfate	Sulfide Hach Method 8131 or SM 4500-S2-F	Total Alkalinity Hach Method AL AP MG-L	Total Alkalinity SM 2320B	Total Organic Carbon EPA Method 415.1 or SM 5310B	Total Manganese EPA Method 6010A/6010B	Total Iron EPA Method 6010A/6010B	Total Iron Hach Method 8008	Ferrous Iron Hach Method 8146	TDS EPA Method 160.1
	09/18/02	NA	NA	NA	NA	NA	NA	NA	20	NA	NA	NA	NA	NA
MW-7	12/14/98	5.4	NA	< 0.2	1.6	0.003	260	NA	9.4	NA	NA	3.36	3.17	NA
	03/03/99	5.7	NA	1.3	12.7	0.010	180	NA	6.5	NA	NA	1.79	1.72	NA
	06/17/99	6.8	NA	2.3	25.1	0.005	200	NA	9.2	NA	NA	2.21	1.86	NA
	09/17/99	8.1	NA	0.3	21.4	0.004	240	NA	10.6	NA	NA	3.58	2.98	NA
MW-8	12/14/98	9.2	NA	< 0.2	20.4	NA	260	NA	10.0	NA	NA	1.13	0.98	NA
	12/14/98 (DUP)	9.3	NA	< 0.2	20.4	NA	NA	NA	10.1	NA	NA	NA	NA	NA
	03/02/99	12.7	NA	0.3	29.7	0.023	260	NA	8.9	NA	NA	2.03	0.77	NA
	06/16/99	12.8	NA	< 0.2	29.1	0.009	240	NA	9.6	NA	NA	0.70	0.50	NA
	09/16/99	10.5	NA	< 0.2	21.1	0.007	260	NA	10.5	NA	NA	1.02	0.45	NA
	09/18/02	NA	NA	NA	NA	NA	NA	NA	11.4	NA	NA	NA	NA	NA
MW-11	04/01/10	NA	< 0.1	NA	NA	NA	NA	NA	5.8	NA	NA	NA	NA	NA
	04/09/10	NA	0.35	NA	NA	NA	NA	NA	4.9	NA	NA	NA	NA	NA
	04/16/10	NA	0.35	NA	NA	NA	NA	NA	5.7	NA	NA	NA	NA	NA
	05/06/10	NA	2.6	NA	NA	NA	NA	NA	5.4	NA	NA	NA	NA	NA
	05/06/10 (LAB DUP)	NA	2.6	NA	NA	NA	NA	NA	6.4	NA	NA	NA	NA	NA
	06/09/10	NA	3.9	NA	NA	NA	NA	NA	5.2	NA	NA	NA	NA	NA
	06/09/10 (LAB DUP)	NA	3.9	NA	NA	NA	NA	NA	5.0	NA	NA	NA	NA	NA
	07/06/10	NA	8.1	NA	NA	NA	NA	NA	5.6	NA	NA	NA	NA	NA
MW-23	09/13/06	NA	NA	< 0.1	29.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Deep On-Site Monitoring Wells and Piezometer														
MW-13	09/24/04	56.1	NA	< 0.2	0.6	0.05	260	NA	40.3	1.40	37.1	NA	1.5	NA
	04/05/05	4.3	NA	< 0.1	6.1	< 0.01	50	NA	5.8	0.145	3.3	NA	2.4	NA
	09/14/06	NA	NA	< 0.1	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/29/10	NA	0.45	NA	NA	NA	NA	NA	29	NA	NA	NA	NA	NA
	03/29/10 (LAB DUP)	NA	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/07/10	NA	0.44	NA	NA	NA	NA	NA	30	NA	NA	NA	NA	NA
	04/07/10 (LAB DUP)	NA	0.46	NA	NA	NA	NA	NA	30	NA	NA	NA	NA	NA
	04/16/10	NA	0.47	NA	NA	NA	NA	NA	30	NA	NA	NA	NA	NA
	05/06/10	NA	< 2.0	NA	NA	NA	NA	NA	32	NA	NA	NA	NA	NA
	06/09/10	NA	0.64	NA	NA	NA	NA	NA	34	NA	NA	NA	NA	NA
	07/06/10	NA	0.66	NA	NA	NA	NA	NA	32	NA	NA	NA	NA	NA
MW-14	09/24/04	6.2	NA	< 0.2	< 0.2	< 0.01	240	NA	11.8	1.12	32.7	NA	2.0	NA
	04/05/05	6.3	NA	< 0.1	< 0.2	< 0.01	215	NA	12.8	1.24	35.7	NA	1.8	NA
MW-15	09/24/04	6.6	NA	< 0.2	< 0.2	< 0.01	240	NA	7.9	1.33	34.8	NA	1.6	NA
	04/05/05	7.5	NA	< 0.1	< 0.2	< 0.01	190	NA	8.0	1.41	35.9	NA	2.0	NA
	09/13/06	NA	NA	< 0.1	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16	09/23/04	33.5	NA	< 0.2	8.1	< 0.01	420	NA	24.1	3.71	108	NA	2.0	NA
	04/05/05	36.2	NA	< 0.1	1.1	< 0.01	295	NA	23.6	3.92	114	NA	2.2	NA
MW-17	09/23/04	49.7	NA	< 0.2	< 0.2	< 0.01	1,320	NA	32.9	1.77	55.7	NA	2.4	NA
	09/23/04 (DUP)	46.9	NA	< 0.2	< 0.2	NA	NA	NA	32.8	1.75	54.9	NA	NA	NA
	04/05/05	50.0	NA	< 0.1	< 0.2	< 0.01	230	NA	32.7	0.92	40.1	NA	2.5	NA
MW-17	09/12/06	NA	NA	< 0.1	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18	09/23/04	8.7	NA	< 0.2	< 0.2	< 0.01	380	NA	17.1	1.64	54.4	NA	2.3	NA
	04/05/05	8.9	NA	< 0.1	< 0.2	< 0.01	295	NA	17.7	1.62	50.2	NA	2.4	NA
	04/05/05 (DUP)	8.8	NA	< 0.1	< 0.2	NA	NA	NA	17.2	1.61	50.0	NA	NA	NA
MW-19	09/23/04	23.0	NA	< 0.2	0.3	< 0.01	340	NA	19.2	1.44	64.0	NA	1.8	NA
	04/05/05	18.9	NA	< 0.100	3.7	< 0.01	250	NA	19.9	1.31	65.8	NA	2.6	NA
MW-20	09/20/05	50.7	NA	< 0.1	1.4	< 0.01	355	NA	29.1	3.60	88	NA	2.2	NA

Table D3
General Chemistry Parameters in Groundwater
Univar Solutions USA, Inc.
Kent, Washington

		Anions (EPA Method 300.0)				Sulfide	Total Alkalinity		Total Organic Carbon	Total Manganese	Total Iron		Ferrous Iron	TDS
Sample Location	Date Collected	Chloride	Bromide	Nitrate as Nitrogen	Sulfate	Hach Method 8131 or SM 4500-S2-F	Hach Method AL AP MG-L	SM 2320B	EPA Method 415.1 or SM 5310B	EPA Method 6010A/6010B	EPA Method 6010A/6010B	Hach Method 8008	Hach Method 8146	EPA Method 160.1
MW-21	09/14/06	NA	NA	< 0.1	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/14/06 (DUP)	NA	NA	< 0.1	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/26/10	NA	< 0.1	NA	NA	NA	NA	NA	32	NA	NA	NA	NA	NA
	04/07/10	NA	20	NA	NA	NA	NA	NA	2,400	NA	NA	NA	NA	NA
	04/16/10	NA	0.59	NA	NA	NA	NA	NA	33	NA	NA	NA	NA	NA
	05/06/10	NA	2.7	NA	NA	NA	NA	NA	69	NA	NA	NA	NA	NA
	05/06/10 (DUP)	NA	2.6	NA	NA	NA	NA	NA	67	NA	NA	NA	NA	NA
	06/09/10	NA	8.5	NA	NA	NA	NA	NA	82	NA	NA	NA	NA	NA
	07/06/10	NA	8.4	NA	NA	NA	NA	NA	150	NA	NA	NA	NA	NA
MW-24	03/26/10	NA	< 0.1	NA	NA	NA	NA	NA	27	NA	NA	NA	NA	NA
	04/07/10	NA	50	NA	NA	NA	NA	NA	2,200	NA	NA	NA	NA	NA
	04/16/10	NA	0.46	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA
	05/06/10	NA	< 2.0	NA	NA	NA	NA	NA	58	NA	NA	NA	NA	NA
	06/09/10	NA	6.3	NA	NA	NA	NA	NA	68	NA	NA	NA	NA	NA
	07/06/10	NA	8.6	NA	NA	NA	NA	NA	74	NA	NA	NA	NA	NA
	07/06/10 (DUP)	NA	8.9	NA	NA	NA	NA	NA	72	NA	NA	NA	NA	NA
MW-25	03/29/10	NA	0.45	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA
	04/07/10	NA	0.43	NA	NA	NA	NA	NA	24	NA	NA	NA	NA	NA
	04/16/10	NA	0.37	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA
	05/06/10	NA	< 2.0	NA	NA	NA	NA	NA	26	NA	NA	NA	NA	NA
	06/09/10	NA	1.2	NA	NA	NA	NA	NA	33	NA	NA	NA	NA	NA
	07/06/10	NA	2.5	NA	NA	NA	NA	NA	43	NA	NA	NA	NA	NA
MW-26	04/01/10	NA	< 0.1	NA	NA	NA	NA	NA	3.7	NA	NA	NA	NA	NA
	04/01/10 (LAB DUP)	NA	NA	NA	NA	NA	NA	NA	3.7	NA	NA	NA	NA	NA
	04/09/10	NA	< 0.1	NA	NA	NA	NA	NA	4.0	NA	NA	NA	NA	NA
	04/16/10	NA	0.43	NA	NA	NA	NA	NA	3.8	NA	NA	NA	NA	NA
	05/06/10	NA	< 2.0	NA	NA	NA	NA	NA	4.2	NA	NA	NA	NA	NA
	06/09/10	NA	< 0.1	NA	NA	NA	NA	NA	4.6	NA	NA	NA	NA	NA
	07/06/10	NA	< 0.1	NA	NA	NA	NA	NA	7.0	NA	NA	NA	NA	NA
	07/06/10 (LAB DUP)	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-1	09/24/04	8.8	NA	< 0.2	< 0.2	< 0.01	220	NA	20.7	1.10	38.1	NA	2.0	NA
Deep Off-Site Monitoring Well														
MW-22	09/14/06	NA	NA	0.4	49.9	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
All results in mg/L.
< = less than the method reporting limit shown.
DUP = duplicate sample collected in the field and blind labeled.
E = The result exceeded calibration curve.
J = the associated numerical value is an estimated quantity based on data review or laboratory estimate above the MDL but below the MRL.
LAB DUP = laboratory duplicate sample.
NA = not analyzed.
TDS = Total Dissolved Solids

Table D4
Dissolved Gases in Groundwater
Univar Solutuions USA, Inc.
Kent, Washington

Sample Location	Date Collected	Modified RSK Method 175 (µg/L) Methane	Ethane	Ethene
Shallow On-Site Monitoring Wells				
MW-1	12/15/98	18,000	110	310
	03/02/99	15,000	75	270
	06/17/99	8,400	44	170
	09/17/99	14,000	83	230
MW-2	12/15/98	13,000	1.1	0.5 U
	03/02/99	8,600	0.88	0.5 U
	06/16/99	13,000	1.0	0.5 U
	06/16/99 (DUP)	13,000	0.97	0.5 U
	09/16/99	17,000	1.2	0.5 U
MW-3	12/14/98	10,000	6.9	0.95
	03/03/99	5,700	9.3	1.2
	06/17/99	3,800	3.2	0.93
	09/17/99	4,300	6.8	0.88
MW-4	12/14/98	16,000	130	1,500
	03/03/99	10,000	110	730
	06/17/99	12,000	110	1,300
	09/17/99	14,000	150	1,000
MW-5	12/15/98	0.5 U	0.5 U	0.5 U
	03/02/99	66	0.5 U	0.5 U
	06/16/99	7.8	0.5 U	0.5 U
	09/16/99	28	0.5 U	0.5 U
	09/16/99 (DUP)	26	0.5 U	0.5 U
MW-6	12/15/98	14,000	130	31
	03/02/99	9,800	94	15
	03/02/99 (DUP)	12,000	120	16
	06/16/99	11,000	100	10
	09/16/99	13,000	98	8.2
MW-7	12/14/98	1.9	0.5 U	0.5 U
	03/03/99	34	0.5 U	0.5 U
	06/17/99	7.9	0.5 U	0.5 U
	09/17/99	15	0.5 U	0.5 U
MW-8	12/14/98	23	0.5 U	0.5 U
	12/14/98 (DUP)	25	0.5 U	0.5 U
	03/02/99	12	0.5 U	0.5 U
	06/16/99	5.2	0.5 U	0.5 U
	09/16/99	18	0.5 U	0.5 U
Deep On-Site Monitoring Wells and Piezometer				
MW-13	09/24/04	13,000	15	680
	04/05/05	520	1.9	27
MW-14	09/24/04	5,800	2.2	1.2
	04/05/05	5,900	0.41	0.55 U
MW-15	09/24/04	7,700	1.7	0.8 U
	04/05/05	6,500	1.5	0.55 U
MW-16	09/23/04	16,000	3.2	1.3
	04/05/05	17,000	3.7	2.0
MW-17	09/23/04	13,000	290	61
	09/23/04 (DUP)	13,000	290	60
	04/05/05	13,000	290	70
MW-18	09/23/04	4,500	25	3.2

Table D4
Dissolved Gases in Groundwater
Univar Solutuions USA, Inc.
Kent, Washington

Sample Location	Date Collected	Modified RSK Method 175 (µg/L) Methane	Ethane	Ethene
	04/05/05	4,800	16	1.5
	04/05/05 (DUP)	5,700	19	1.8
MW-19	09/23/04	5,600	32	870
	04/05/05	5,400	40	97
P-1	09/24/04	5,100	3.0	0.8 U
Deep Off-Site Monitoring Well				
MW-20	09/20/05	13,000	240	10

Notes:

Analyses prior to 2011 performed using Modified RSK Method 175.

µg/L = micrograms per liter

U = not detected, the associated value is the quantification limit.

J = estimated concentration between the method detection and reporting limits.

(DUP) = duplicate sample collected in the field and blind labeled.

APPENDIX E LABORATORY DATA AND VALIDATION MEMORANDUM

APPENDIX E – LABORATORY ANALYTICAL DATA REPORTS AND DATA VALIDATION MEMORANDA

<Provided in electronic format only>

Laboratory Analytical Data Reports

Number	Lab ID	Report Reference
01	FA64743	June 2019 Groundwater Sampling
02	FA67623	August 2019 Groundwater Sampling
03	FA67699	August 2019 Groundwater Sampling
04	FA67699R	August 2019 Groundwater Sampling

Data Validation Memoranda

16 September 2019 Data Review of Univar Kent, Washington Groundwater Samples: SGS Data Package FA64743. ERM.

03 October 2019 Data Review of Univar Kent, Washington Groundwater Samples Collected August 2019: SGS Data Package FA67623, FA67699, and FA67669R. ERM.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Univar

ERMORP: Univar; 8201 S 212th St, Kent, WA

60527139

SGS Job Number: FA64743

Sampling Dates: 05/30/19 - 06/03/19

Report to:

ERM
1050 SW 6th Ave Suite 1650
Portland, OR 97204
Dylan.Stankus@erm.com; Alison.Lunde@erm.com

ATTN: Dylan Stankus

Total number of pages in report: **92**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions

Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

SGS North America Inc.

Sample Summary

Univar

Job No: FA64743

ERMORP: Univar; 8201 S 212th St, Kent, WA
Project No: 60527139

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA64743-1	05/31/19	11:53	AL	06/04/19	AQ	Ground Water	MW-4-053119
FA64743-1D	05/31/19	11:53	AL	06/04/19	AQ	Ground Water	MW-4-053119
FA64743-1S	05/31/19	11:53	AL	06/04/19	AQ	Ground Water	MW-4-053119
FA64743-2	05/31/19	12:53	AL	06/04/19	AQ	Ground Water	MW-21-053119
FA64743-3	05/31/19	13:29	AL	06/04/19	AQ	Ground Water	MW-1-053119
FA64743-4	05/31/19	14:20	AL	06/04/19	AQ	Ground Water	MW-13-053119
FA64743-5	05/31/19	15:13	AL	06/04/19	AQ	Ground Water	MW-9-053119
FA64743-6	06/03/19	09:49	AL	06/04/19	AQ	Ground Water	MW-12-060319
FA64743-7	06/03/19	10:29	AL	06/04/19	AQ	Ground Water	MW-6-060319
FA64743-8	06/03/19	11:16	AL	06/04/19	AQ	Ground Water	MW-14-060319
FA64743-9	06/03/19	11:56	AL	06/04/19	AQ	Ground Water	MW-2-060319
FA64743-10	06/03/19	12:58	AL	06/04/19	AQ	Ground Water	MW-16-060319
FA64743-11	06/03/19	13:59	AL	06/04/19	AQ	Ground Water	MW-28-060319

SGS North America Inc.

Sample Summary
(continued)

Univar

Job No: FA64743

ERMORP: Univar; 8201 S 212th St, Kent, WA
Project No: 60527139

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA64743-12	06/03/19	13:00	AL	06/04/19	AQ	Ground Water	DUP-2-060319
FA64743-13	05/30/19	00:00	AL	06/04/19	AQ	Trip Blank Water	TB-053019-1
FA64743-14	05/30/19	12:41	AL	06/04/19	AQ	Ground Water	MW-19-053019
FA64743-15	05/30/19	13:21	AL	06/04/19	AQ	Ground Water	MW-18-053019
FA64743-16	05/30/19	14:09	AL	06/04/19	AQ	Ground Water	MW-10-053019
FA64743-17	05/30/19	15:28	AL	06/04/19	AQ	Ground Water	MW-8-053019
FA64743-18	05/30/19	16:13	AL	06/04/19	AQ	Ground Water	MW-5-053019
FA64743-19	05/31/19	07:49	AL	06/04/19	AQ	Ground Water	MW-3-053119
FA64743-20	05/31/19	08:43	AL	06/04/19	AQ	Ground Water	MW-17-053119
FA64743-21	05/31/19	09:23	AL	06/04/19	AQ	Ground Water	MW-23-053119
FA64743-22	05/31/19	10:11	AL	06/04/19	AQ	Ground Water	MW-07-053119
FA64743-23	05/31/19	10:00	AL	06/04/19	AQ	Ground Water	DUP-1-053119
FA64743-24	05/31/19	11:11	AL	06/04/19	AQ	Ground Water	MW-22-053119

Sample Summary
(continued)

Univar

Job No: FA64743

ERMORP: Univar; 8201 S 212th St, Kent, WA
Project No: 60527139

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA64743-25	06/03/19	15:00	AL	06/04/19	AQ	Ground Water	MW-20-060319
FA64743-26	06/03/19	15:42	AL	06/04/19	AQ	Ground Water	MW-27-060319

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Univar **Job No:** FA64743

Site: ERMORP: Univar; 8201 S 212th St, Kent, WA **Report Date:** 6/13/2019 4:47:42 PM

25 Samples and 1 Trip Blank were collected on between 05/30/2019 and 06/03/2019 and were received at SGS North America Inc - Orlando on 06/04/2019 properly preserved, at 3 Deg. C and intact. These Samples received an SGS Orlando job number of FA64743. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VE2142

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA64743-1MS, FA64743-1MSD were used as the QC samples indicated.

Sample(s) FA64743-2 have compounds reported from the diluted analysis.

Matrix Spike Recovery(s) for Bromoform, Dibromochloromethane, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform, Dibromochloromethane, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

FA64743-1: Confirmation run.

FA64743-2 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-2 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-2 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-3 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-3 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-3 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-5 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-5 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-5 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-5 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA64743-6 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-6 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-6 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-6 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA64743-7 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA64743-7 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-7 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-7 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-8 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-8 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-8 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA64743-8 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-9 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-9 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-9 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-9 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

FA64743-10 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-10 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-10 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-11 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-11 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VE2142

FA64743-11 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-11 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-12 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-12 for Methyl Bromide: Associated CCV outside of control limits high, sample was ND.

FA64743-12 for Dichlorodifluoromethane: Associated CCV outside of control limits high, sample was ND.

FA64743-12 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** VE2144

All samples were analyzed within the recommended method holding time.

Sample(s) FA64743-15MS, FA64743-15MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Bromoform, cis-1,3-Dichloropropene, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform, cis-1,3-Dichloropropene, Dibromochloromethane, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

Matrix: AQ **Batch ID:** VE2146

All samples were analyzed within the recommended method holding time.

Sample(s) FA64743-1MS, FA64743-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA64743-12, FA64743-18, FA64743-2, FA64743-3, FA64743-4, FA64743-6 have compounds reported from the diluted analysis.

Matrix Spike Recovery(s) for Bromoform, Dibromochloromethane, Isopropylbenzene, n-Propylbenzene, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform, Dibromochloromethane, Isopropylbenzene are outside control limits. Probable cause is due to matrix interference.

FA64743-4: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA64743-10: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA64743-18: Sample vial(s) contained significant headspace; reported results are considered minimum values.

FA64743-24: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VE2147

All samples were analyzed within the recommended method holding time.

Sample(s) FA64743-24MS, FA64743-24MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA64743-20, FA64743-24, FA64743-25 have compounds reported from the diluted analysis.

FA64743-20: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA64743-24: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA64743-25: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

____
Jenna Kravitz, Client Services *(Signature on File)*

Summary of Hits

Job Number: FA64743
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 05/30/19 thru 06/03/19

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA64743-1	**MW-4-053119**					
Benzene		2.3	0.50	0.13	ug/l	SW846 8260B
n-Butylbenzene		0.30 J	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene		1.2	0.50	0.13	ug/l	SW846 8260B
tert-Butylbenzene		0.20 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane		21.8	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.20 J	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.68	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene		0.24 J	0.50	0.13	ug/l	SW846 8260B
Hexane		0.38 J	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		26.4	0.50	0.13	ug/l	SW846 8260B
Methyl Chloride		0.21 J	0.50	0.20	ug/l	SW846 8260B
n-Propylbenzene		24.4	0.50	0.13	ug/l	SW846 8260B
Toluene		0.17 J	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.20 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.26 J	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		0.14 J	1.0	0.13	ug/l	SW846 8260B
FA64743-2	**MW-21-053119**					
Chloroethane		281	50	20	ug/l	SW846 8260B
o-Chlorotoluene		25.3	25	6.3	ug/l	SW846 8260B
1,1-Dichloroethane		23.8 J	25	6.3	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		24.2 J	25	6.3	ug/l	SW846 8260B
Ethylbenzene		1040	25	6.3	ug/l	SW846 8260B
Hexane		12.1 J	50	10	ug/l	SW846 8260B
Isopropylbenzene		77.1	25	6.3	ug/l	SW846 8260B
n-Propylbenzene		123	25	6.3	ug/l	SW846 8260B
Toluene		136	25	6.3	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		368	25	6.3	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		220	25	6.3	ug/l	SW846 8260B
Vinyl Chloride		15.4 J	25	6.3	ug/l	SW846 8260B
m,p-Xylene		6490	100	13	ug/l	SW846 8260B
o-Xylene		579	25	6.3	ug/l	SW846 8260B
FA64743-3	**MW-1-053119**					
Acetone		3.6 J	10	2.0	ug/l	SW846 8260B
Benzene		0.18 J	0.50	0.13	ug/l	SW846 8260B
n-Butylbenzene		0.40 J	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene		0.89	0.50	0.13	ug/l	SW846 8260B
Chloroethane		32.9	1.0	0.40	ug/l	SW846 8260B
Chloroform		0.31 J	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethane		35.3	0.50	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA64743
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 05/30/19 thru 06/03/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethylene		1.1	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.41 J	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene		0.78	0.50	0.13	ug/l	SW846 8260B
Hexane		0.33 J	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		14.3	0.50	0.13	ug/l	SW846 8260B
p-Isopropyltoluene		0.21 J	0.50	0.13	ug/l	SW846 8260B
Methylene Chloride		1.9 J	2.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		16.3	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene		0.34 J	0.50	0.13	ug/l	SW846 8260B
Toluene		0.17 J	0.50	0.13	ug/l	SW846 8260B
1,1,1-Trichloroethane		1.8	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		2.0	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		2.9	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.66	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		0.28 J	1.0	0.13	ug/l	SW846 8260B
o-Xylene		5.3	0.50	0.13	ug/l	SW846 8260B
FA64743-4	**MW-13-053119**					
Benzene [a]		0.40 J	1.3	0.31	ug/l	SW846 8260B
sec-Butylbenzene [a]		0.41 J	1.3	0.31	ug/l	SW846 8260B
Chloroethane [a]		32.1	1.3	0.50	ug/l	SW846 8260B
o-Chlorotoluene [a]		0.75 J	1.3	0.31	ug/l	SW846 8260B
trans-1,2-Dichloroethylene [a]		0.91 J	1.3	0.31	ug/l	SW846 8260B
Ethylbenzene [a]		9.6	1.3	0.31	ug/l	SW846 8260B
Hexane [a]		3.1	2.5	0.50	ug/l	SW846 8260B
Isopropylbenzene [a]		12.6	1.3	0.31	ug/l	SW846 8260B
n-Propylbenzene [a]		20.7	1.3	0.31	ug/l	SW846 8260B
Toluene [a]		0.53 J	1.3	0.31	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [a]		59.1	1.3	0.31	ug/l	SW846 8260B
1,3,5-Trimethylbenzene [a]		5.9	1.3	0.31	ug/l	SW846 8260B
m,p-Xylene [a]		171	2.5	0.31	ug/l	SW846 8260B
o-Xylene [a]		0.50 J	1.3	0.31	ug/l	SW846 8260B
FA64743-5	**MW-9-053119**					
Benzene		0.24 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.55	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.13 J	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		0.80	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.29 J	0.50	0.13	ug/l	SW846 8260B
FA64743-6	**MW-12-060319**					
1,1-Dichloroethylene		0.19 J	0.50	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA64743
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 05/30/19 thru 06/03/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethylene		147	2.5	0.63	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.74	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene		55.0	2.5	0.63	ug/l	SW846 8260B
Trichloroethylene		11.6	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		6.1	0.50	0.13	ug/l	SW846 8260B
FA64743-7	**MW-6-060319**					
1,1-Dichloroethane		0.31 J	0.50	0.13	ug/l	SW846 8260B
FA64743-8	**MW-14-060319**					
Toluene		2.5	0.50	0.13	ug/l	SW846 8260B
FA64743-9	**MW-2-060319**					
1,1-Dichloroethane		0.32 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.61	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		0.15 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.16 J	0.50	0.13	ug/l	SW846 8260B
FA64743-10	**MW-16-060319**					
Acetone		4.2 J	10	2.0	ug/l	SW846 8260B
Chloroethane [a]		0.63	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.42 J	0.50	0.13	ug/l	SW846 8260B
Toluene		0.22 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.72	0.50	0.13	ug/l	SW846 8260B
FA64743-11	**MW-28-060319**					
Benzene		0.14 J	0.50	0.13	ug/l	SW846 8260B
Toluene		0.62	0.50	0.13	ug/l	SW846 8260B
FA64743-12	**DUP-2-060319**					
1,1-Dichloroethylene		0.17 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		143	2.5	0.63	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.95	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene		51.8	2.5	0.63	ug/l	SW846 8260B
Trichloroethylene		11.3	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		5.5	0.50	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA64743
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 05/30/19 thru 06/03/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA64743-13	**TB-053019-1**					
No hits reported in this sample.						
FA64743-14	**MW-19-053019**					
Benzene		1.9	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene		0.36 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane		4.5	0.50	0.20	ug/l	SW846 8260B
Chloroform		0.17 J	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethane		0.16 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.30 J	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene		39.9	0.50	0.13	ug/l	SW846 8260B
Hexane		12.0	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		4.7	0.50	0.13	ug/l	SW846 8260B
n-Propylbenzene		5.0	0.50	0.13	ug/l	SW846 8260B
Toluene		1.3	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		39.8	0.50	0.13	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		0.54	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.60	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		3.7	1.0	0.13	ug/l	SW846 8260B
o-Xylene		2.5	0.50	0.13	ug/l	SW846 8260B
FA64743-15	**MW-18-053019**					
No hits reported in this sample.						
FA64743-16	**MW-10-053019**					
No hits reported in this sample.						
FA64743-17	**MW-8-053019**					
1,1-Dichloroethylene		0.17 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.40 J	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene		0.32 J	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		1.8	0.50	0.13	ug/l	SW846 8260B
FA64743-18	**MW-5-053019**					
Tetrachloroethylene [b]		76.4	2.5	0.63	ug/l	SW846 8260B
FA64743-19	**MW-3-053119**					
Benzene		0.26 J	0.50	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA64743
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 05/30/19 thru 06/03/19

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Chloroethane	1.2	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane	0.40 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.71	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene	0.28 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride	0.53	0.50	0.13	ug/l	SW846 8260B
FA64743-20 MW-17-053119					
Benzene	18.0	0.50	0.13	ug/l	SW846 8260B
Chloroethane [a]	194	5.0	2.0	ug/l	SW846 8260B
1,2-Dichloroethane	1.2	0.50	0.13	ug/l	SW846 8260B
Methylene Chloride	1.1 J	2.0	1.0	ug/l	SW846 8260B
Toluene	0.46 J	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	0.39 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride	0.17 J	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene	2.3	1.0	0.13	ug/l	SW846 8260B
o-Xylene	0.62	0.50	0.13	ug/l	SW846 8260B
FA64743-21 MW-23-053119					
cis-1,2-Dichloroethylene	0.15 J	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene	11.3	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene	1.0	0.50	0.13	ug/l	SW846 8260B
FA64743-22 MW-07-053119					
Tetrachloroethylene	4.1	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene	0.29 J	0.50	0.13	ug/l	SW846 8260B
FA64743-23 DUP-1-053119					
Benzene	0.24 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane	1.1	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane	0.37 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.74	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene	0.27 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride	0.52	0.50	0.13	ug/l	SW846 8260B
FA64743-24 MW-22-053119					
Benzene [a]	0.58	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene [a]	0.15 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane [a]	44.7	1.3	0.50	ug/l	SW846 8260B
Chloroform [a]	0.30 J	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethane [a]	0.57	0.50	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA64743
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 05/30/19 thru 06/03/19

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,2-Dichloroethane [a]	0.18 J	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethylene [a]	0.24 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene [a]	60.0	1.3	0.31	ug/l	SW846 8260B
trans-1,2-Dichloroethylene [a]	1.7	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene [a]	1.5	0.50	0.13	ug/l	SW846 8260B
Hexane [a]	2.4	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene [a]	7.4	0.50	0.13	ug/l	SW846 8260B
n-Propylbenzene [a]	8.4	0.50	0.13	ug/l	SW846 8260B
Toluene [a]	1.1	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene [a]	3.3	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [a]	22.2	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride [a]	23.5	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene [a]	16.1	1.0	0.13	ug/l	SW846 8260B
o-Xylene [a]	0.67	0.50	0.13	ug/l	SW846 8260B
FA64743-25 MW-20-060319					
Benzene	18.4	0.50	0.13	ug/l	SW846 8260B
Chloroethane [a]	187	5.0	2.0	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.13 J	0.50	0.13	ug/l	SW846 8260B
Methylene Chloride	1.1 J	2.0	1.0	ug/l	SW846 8260B
Toluene	0.89	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	0.24 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride	0.15 J	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene	1.3	1.0	0.13	ug/l	SW846 8260B
o-Xylene	1.2	0.50	0.13	ug/l	SW846 8260B
FA64743-26 MW-27-060319					
Benzene	0.17 J	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethane	0.38 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	0.39 J	0.50	0.13	ug/l	SW846 8260B
Toluene	0.63	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride	0.62	0.50	0.13	ug/l	SW846 8260B

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Sample vial(s) contained significant headspace; reported results are considered minimum values.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-053119		
Lab Sample ID:	FA64743-1	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099504.D	1	06/12/19 10:23	AB	n/a	n/a	VE2146
Run #2 [a]	E099425.D	1	06/07/19 12:32	AB	n/a	n/a	VE2142

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	2.3	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	0.30	0.50	0.13	ug/l	J
135-98-8	sec-Butylbenzene	1.2	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	0.20	0.50	0.13	ug/l	J
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	21.8	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.20	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.68	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	0.24	0.50	0.13	ug/l	J

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-053119		
Lab Sample ID:	FA64743-1	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	0.38	1.0	0.20	ug/l	J
98-82-8	Isopropylbenzene	26.4	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	0.21	0.50	0.20	ug/l	J
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	24.4	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.17	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.20	0.50	0.13	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.26	0.50	0.13	ug/l	J
	m,p-Xylene	0.14	1.0	0.13	ug/l	J
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	79-125%
2037-26-5	Toluene-D8	97%	94%	85-112%
460-00-4	4-Bromofluorobenzene	100%	95%	83-118%

(a) Confirmation run.

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-21-053119		
Lab Sample ID:	FA64743-2	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099426.D	50	06/07/19 12:56	AB	n/a	n/a	VE2142
Run #2	E099519.D	100	06/12/19 16:29	AB	n/a	n/a	VE2146

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	100	ug/l	
71-43-2	Benzene	ND	25	6.3	ug/l	
108-86-1	Bromobenzene	ND	25	6.3	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.3	ug/l	
75-25-2	Bromoform	ND	25	6.3	ug/l	
104-51-8	n-Butylbenzene	ND	25	6.3	ug/l	
135-98-8	sec-Butylbenzene	ND	25	6.3	ug/l	
98-06-6	tert-Butylbenzene	ND	25	6.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	25	6.3	ug/l	
108-90-7	Chlorobenzene	ND	25	6.3	ug/l	
75-00-3	Chloroethane	281 [a]	50	20	ug/l	
67-66-3	Chloroform	ND	25	6.3	ug/l	
95-49-8	o-Chlorotoluene	25.3	25	6.3	ug/l	
106-43-4	p-Chlorotoluene	ND	25	6.3	ug/l	
124-48-1	Dibromochloromethane	ND	25	6.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	12	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	6.3	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	25	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	6.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	6.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	6.3	ug/l	
75-34-3	1,1-Dichloroethane	23.8	25	6.3	ug/l	J
107-06-2	1,2-Dichloroethane	ND	25	6.3	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	6.3	ug/l	
156-60-5	trans-1,2-Dichloroethylene	24.2	25	6.3	ug/l	J
78-87-5	1,2-Dichloropropane	ND	25	6.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	6.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	6.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	6.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	6.3	ug/l	
100-41-4	Ethylbenzene	1040	25	6.3	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21-053119		
Lab Sample ID:	FA64743-2	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	12.1	50	10	ug/l	J
98-82-8	Isopropylbenzene	77.1	25	6.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	6.3	ug/l	
74-83-9	Methyl Bromide [b]	ND	25	10	ug/l	
74-87-3	Methyl Chloride	ND	25	10	ug/l	
74-95-3	Methylene Bromide	ND	25	6.3	ug/l	
75-09-2	Methylene Chloride	ND	100	50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	130	63	ug/l	
103-65-1	n-Propylbenzene	123	25	6.3	ug/l	
100-42-5	Styrene	ND	25	6.3	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	6.3	ug/l	
127-18-4	Tetrachloroethylene	ND	25	6.3	ug/l	
108-88-3	Toluene	136	25	6.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	6.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	6.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	6.3	ug/l	
79-01-6	Trichloroethylene	ND	25	6.3	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	25	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	6.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	368	25	6.3	ug/l	
108-67-8	1,3,5-Trimethylbenzene	220	25	6.3	ug/l	
75-01-4	Vinyl Chloride	15.4	25	6.3	ug/l	J
	m,p-Xylene	6490 [a]	100	13	ug/l	
95-47-6	o-Xylene	579	25	6.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	79-125%
2037-26-5	Toluene-D8	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	95%	101%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

4.3

4

Client Sample ID:	MW-1-053119		
Lab Sample ID:	FA64743-3	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099427.D	1	06/07/19 13:20	AB	n/a	n/a	VE2142
Run #2	E099520.D	2	06/12/19 16:53	AB	n/a	n/a	VE2146

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.6	10	2.0	ug/l	J
71-43-2	Benzene	0.18	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	0.40	0.50	0.13	ug/l	J
135-98-8	sec-Butylbenzene	0.89	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	32.9 [a]	1.0	0.40	ug/l	
67-66-3	Chloroform	0.31	0.50	0.13	ug/l	J
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	35.3	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.1	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.41	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	0.78	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1-053119		
Lab Sample ID:	FA64743-3	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	0.33	1.0	0.20	ug/l	J
98-82-8	Isopropylbenzene	14.3	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	0.21	0.50	0.13	ug/l	J
74-83-9	Methyl Bromide [b]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	1.9	2.0	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	16.3	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.34	0.50	0.13	ug/l	J
108-88-3	Toluene	0.17	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	1.8	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	2.0	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.9	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.66	0.50	0.13	ug/l	
	m,p-Xylene	0.28	1.0	0.13	ug/l	J
95-47-6	o-Xylene	5.3	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	79-125%
2037-26-5	Toluene-D8	95%	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	99%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-13-053119		
Lab Sample ID:	FA64743-4	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E099521.D	2.5	06/12/19 17:17	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	0.40	1.3	0.31	ug/l	J
108-86-1	Bromobenzene	ND	1.3	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.3	0.31	ug/l	
75-25-2	Bromoform	ND	1.3	0.31	ug/l	
104-51-8	n-Butylbenzene	ND	1.3	0.31	ug/l	
135-98-8	sec-Butylbenzene	0.41	1.3	0.31	ug/l	J
98-06-6	tert-Butylbenzene	ND	1.3	0.31	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.3	0.31	ug/l	
108-90-7	Chlorobenzene	ND	1.3	0.31	ug/l	
75-00-3	Chloroethane	32.1	1.3	0.50	ug/l	
67-66-3	Chloroform	ND	1.3	0.31	ug/l	
95-49-8	o-Chlorotoluene	0.75	1.3	0.31	ug/l	J
106-43-4	p-Chlorotoluene	ND	1.3	0.31	ug/l	
124-48-1	Dibromochloromethane	ND	1.3	0.31	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	0.62	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.3	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.3	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.31	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.3	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.3	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.3	0.31	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.3	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.91	1.3	0.31	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.3	0.31	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.3	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.3	0.31	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.31	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.31	ug/l	
100-41-4	Ethylbenzene	9.6	1.3	0.31	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13-053119			
Lab Sample ID:	FA64743-4		**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	3.1	2.5	0.50	ug/l	
98-82-8	Isopropylbenzene	12.6	1.3	0.31	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.3	0.31	ug/l	
74-83-9	Methyl Bromide	ND	1.3	0.50	ug/l	
74-87-3	Methyl Chloride	ND	1.3	0.50	ug/l	
74-95-3	Methylene Bromide	ND	1.3	0.31	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.3	3.1	ug/l	
103-65-1	n-Propylbenzene	20.7	1.3	0.31	ug/l	
100-42-5	Styrene	ND	1.3	0.31	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.3	0.31	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	0.31	ug/l	
127-18-4	Tetrachloroethylene	ND	1.3	0.31	ug/l	
108-88-3	Toluene	0.53	1.3	0.31	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.31	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.3	0.31	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.3	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.3	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.3	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.3	0.31	ug/l	
95-63-6	1,2,4-Trimethylbenzene	59.1	1.3	0.31	ug/l	
108-67-8	1,3,5-Trimethylbenzene	5.9	1.3	0.31	ug/l	
75-01-4	Vinyl Chloride	ND	1.3	0.31	ug/l	
	m,p-Xylene	171	2.5	0.31	ug/l	
95-47-6	o-Xylene	0.50	1.3	0.31	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-9-053119		
Lab Sample ID:	FA64743-5	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099433.D	1	06/07/19 15:47	AB	n/a	n/a	VE2142
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.24	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.55	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.13	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9-053119		
Lab Sample ID:	FA64743-5	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	0.80	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.29	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-12-060319		
Lab Sample ID:	FA64743-6	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099434.D	1	06/07/19 16:12	AB	n/a	n/a	VE2142
Run #2	E099522.D	5	06/12/19 17:42	AB	n/a	n/a	VE2146

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	0.19	0.50	0.13	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	147 [b]	2.5	0.63	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.74	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-12-060319		
Lab Sample ID:	FA64743-6	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	55.0 [b]	2.5	0.63	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	11.6	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	6.1	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	83-118%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-060319			
Lab Sample ID:	FA64743-7		**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099435.D	1	06/07/19 16:36	AB	n/a	n/a	VE2142
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.31	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-060319		
Lab Sample ID:	FA64743-7	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-14-060319			
Lab Sample ID:	FA64743-8		**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099436.D	1	06/07/19 17:01	AB	n/a	n/a	VE2142
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected　　MDL = Method Detection Limit　　J = Indicates an estimated value
RL = Reporting Limit　　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　　N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14-060319		
Lab Sample ID:	FA64743-8	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	2.5	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2-060319			
Lab Sample ID:	FA64743-9		**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099437.D	1	06/07/19 17:26	AB	n/a	n/a	VE2142
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.32	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.61	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2-060319		
Lab Sample ID:	FA64743-9	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	0.15	0.50	0.13	ug/l	J
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.16	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-16-060319		
Lab Sample ID:	FA64743-10	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099438.D	1	06/07/19 17:50	AB	n/a	n/a	VE2142
Run #2 [a]	E099505.D	1	06/12/19 10:47	AB	n/a	n/a	VE2146

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.2	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	0.63 [b]	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [c]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.42	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16-060319		
Lab Sample ID:	FA64743-10	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [c]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.22	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [c]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.72	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	100%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	97%	101%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2
(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-28-060319		
Lab Sample ID:	FA64743-11	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099439.D	1	06/07/19 18:14	AB	n/a	n/a	VE2142
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.14	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-28-060319		
Lab Sample ID:	FA64743-11	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.62	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-2-060319			
Lab Sample ID:	FA64743-12		**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099440.D	1	06/07/19 18:38	AB	n/a	n/a	VE2142
Run #2	E099523.D	5	06/12/19 18:06	AB	n/a	n/a	VE2146

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane [a]	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	0.17	0.50	0.13	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	143 [b]	2.5	0.63	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.95	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-2-060319			
Lab Sample ID:	FA64743-12		**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide [a]	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	51.8 [b]	2.5	0.63	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	11.3	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane [a]	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	5.5	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	102%	79-125%
2037-26-5	Toluene-D8	97%	101%	85-112%
460-00-4	4-Bromofluorobenzene	96%	102%	83-118%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TB-053019-1		
Lab Sample ID:	FA64743-13	**Date Sampled:**	05/30/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099485.D	1	06/11/19 14:40	AB	n/a	n/a	VE2144
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-053019-1			
Lab Sample ID:	FA64743-13		**Date Sampled:**	05/30/19
Matrix:	AQ - Trip Blank Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-19-053019			
Lab Sample ID:	FA64743-14		**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099491.D	1	06/11/19 17:07	AB	n/a	n/a	VE2144
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	1.9	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	0.36	0.50	0.13	ug/l	J
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	4.5	0.50	0.20	ug/l	
67-66-3	Chloroform	0.17	0.50	0.13	ug/l	J
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.16	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.30	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	39.9	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19-053019		
Lab Sample ID:	FA64743-14	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	12.0	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	4.7	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	5.0	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	1.3	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	39.8	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.54	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.60	0.50	0.13	ug/l	
	m,p-Xylene	3.7	1.0	0.13	ug/l	
95-47-6	o-Xylene	2.5	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-18-053019		
Lab Sample ID:	FA64743-15	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099486.D	1	06/11/19 15:05	AB	n/a	n/a	VE2144
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected　　MDL = Method Detection Limit　　J = Indicates an estimated value
RL = Reporting Limit　　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　　N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18-053019		
Lab Sample ID:	FA64743-15	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-10-053019		
Lab Sample ID:	FA64743-16	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099492.D	1	06/11/19 17:31	AB	n/a	n/a	VE2144
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected　　MDL = Method Detection Limit　　J = Indicates an estimated value
RL = Reporting Limit　　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　　N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10-053019		
Lab Sample ID:	FA64743-16	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-8-053019		
Lab Sample ID:	FA64743-17	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099493.D	1	06/11/19 17:56	AB	n/a	n/a	VE2144
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	0.17	0.50	0.13	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	0.40	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-8-053019			
Lab Sample ID:	FA64743-17		**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.32	0.50	0.13	ug/l	J
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	1.8	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-053019		
Lab Sample ID:	FA64743-18	**Date Sampled:**	05/30/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E099518.D	5	06/12/19 16:04	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethylene	76.4	2.5	0.63	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3-053119			
Lab Sample ID:	FA64743-19		**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099506.D	1	06/12/19 11:11	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.26	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	1.2	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.40	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.71	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.28	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3-053119		
Lab Sample ID:	FA64743-19	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.53	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-17-053119		
Lab Sample ID:	FA64743-20	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099507.D	1	06/12/19 11:36	AB	n/a	n/a	VE2146
Run #2 [a]	E099531.D	10	06/13/19 10:28	AB	n/a	n/a	VE2147

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	18.0	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	194 [b]	5.0	2.0	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	1.2	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-17-053119		
Lab Sample ID:	FA64743-20	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	1.1	2.0	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.46	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.39	0.50	0.13	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.17	0.50	0.13	ug/l	J
	m,p-Xylene	2.3	1.0	0.13	ug/l	
95-47-6	o-Xylene	0.62	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	101%	79-125%
2037-26-5	Toluene-D8	98%	102%	85-112%
460-00-4	4-Bromofluorobenzene	104%	101%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23-053119			
Lab Sample ID:	FA64743-21		**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099508.D	1	06/12/19 12:00	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.15	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-23-053119		
Lab Sample ID:	FA64743-21	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	11.3	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	1.0	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-07-053119		
Lab Sample ID:	FA64743-22	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099509.D	1	06/12/19 12:24	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-07-053119		
Lab Sample ID:	FA64743-22	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	4.1	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	0.29	0.50	0.13	ug/l	J
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-1-053119		
Lab Sample ID:	FA64743-23	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099510.D	1	06/12/19 12:49	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.24	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	1.1	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.37	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.74	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.27	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1-053119		
Lab Sample ID:	FA64743-23	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.52	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-22-053119		
Lab Sample ID:	FA64743-24	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E099511.D	1	06/12/19 13:13	AB	n/a	n/a	VE2146
Run #2 [a]	E099533.D	2.5	06/13/19 11:18	AB	n/a	n/a	VE2147

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.58	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	0.15	0.50	0.13	ug/l	J
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	44.7 [b]	1.3	0.50	ug/l	
67-66-3	Chloroform	0.30	0.50	0.13	ug/l	J
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.57	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	0.18	0.50	0.13	ug/l	J
75-35-4	1,1-Dichloroethylene	0.24	0.50	0.13	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	60.0 [b]	1.3	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.7	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	1.5	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-22-053119		
Lab Sample ID:	FA64743-24	**Date Sampled:**	05/31/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	2.4	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	7.4	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	8.4	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	1.1	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	3.3	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	22.2	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	23.5	0.50	0.13	ug/l	
	m,p-Xylene	16.1	1.0	0.13	ug/l	
95-47-6	o-Xylene	0.67	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	109%	79-125%
2037-26-5	Toluene-D8	99%	97%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20-060319		
Lab Sample ID:	FA64743-25	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099516.D	1	06/12/19 15:15	AB	n/a	n/a	VE2146
Run #2 [a]	E099532.D	10	06/13/19 10:52	AB	n/a	n/a	VE2147

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	18.4	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	187 [b]	5.0	2.0	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.13	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-20-060319		
Lab Sample ID:	FA64743-25	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	1.1	2.0	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.89	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.24	0.50	0.13	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.15	0.50	0.13	ug/l	J
	m,p-Xylene	1.3	1.0	0.13	ug/l	
95-47-6	o-Xylene	1.2	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	103%	79-125%
2037-26-5	Toluene-D8	100%	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-27-060319		
Lab Sample ID:	FA64743-26	**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water	**Date Received:**	06/04/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E099517.D	1	06/12/19 15:39	AB	n/a	n/a	VE2146
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.17	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.38	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.39	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27-060319			
Lab Sample ID:	FA64743-26		**Date Sampled:**	06/03/19
Matrix:	AQ - Ground Water		**Date Received:**	06/04/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.63	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.62	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB #: FA64743 PAGE____OF____

SGS - ORLANDO Quote #	SKIFF #

Client / Reporting Information

Company Name: ERM
Address: 1218 3rd Avenue.
City: Seattle State: WA Zip: 98101
Project Contact: Dylanstarkus Email: Dylan.Starkus@erm.com
Phone #:
Sampler(s) Name(s) (Printed) Sampler 1: AL Sampler 2:

Project Information

Project Name: Kent 212th
Street: 8201 S 212th St.
City: Kent State: WA
Project #: 0487043
Fax #:
Client Purchase Order #:

Analytical Information: VOC's, MS/MSD

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE (Collection)	TIME (Collection)	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC's	MS/MSD	LAB USE ONLY
1	MW-4-053119	05/31/19	1153	AL	W	9			9							X	X	
2	MW-21-053119		1253	AL	W	3			3							X		
3	MW-1-053119		1329	AL	W	3			3							X		
4	MW-13-053119		1420	AL	W	3			3							X		
5	MW-9-053119		1513	AL	W	3			3							X		
6	MW-12-060319	06/03/19	0949	AL	W	3			3							X		
7	MW-6-060319		1029	AL	W	3			3							X		
8	MW-14-060319		1116	AL	W	3			3							X		
9	MW-2-060319		1156	AL	W	3			3							X		
10	MW-16-060319		1258	AL	W	3			3							X		
11	MW-28-060319		1359	AL	W	3			3							X		
12	DUP-2-060319		1300	AL	W	3			3							X		

Turnaround Time (Business days)

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alison Lunde	06/03/19 515	2 FEDEX	3 FEDEX	6.4.19 9:00	4 [signature]
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected): 3.0°

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

5.1

5

FA64743: Chain of Custody
Page 1 of 4

FA64743

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE_____OF_____

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: ERM
Address: 1218 3rd Ave Ste 1412
City: Seattle State: WA Zip: 98101
Project Contact: Dylan Stankus Email: dylan.stankus@erm.com
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: MC Sampler 2:

Project Information

Project Name: Kent 212th
Street: 8201 S. 212th St.
City: Kent State: WA
Project #
Fax #
Client Purchase Order #

Analytical Information: VOCs

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOCs	LAB USE ONLY
13	TB-053019-01	5/30/19	/	/	W	2			2							X	
14	MW-19-053019		1241	MC	W	3			3							X	
15	MW-18-053019		1321	MC	W	3			3							X	
16	MW-10-053019		1409	MC	W	3			3							X	
17	MW-8-053019		1528	AL	W	3			3							X	
18	MW-5-053019		1613	AL	W	3			3							X	
19	MW-3-053119	5/31/19	0749	AL	W	3			3							X	
20	MW-17-053119		0843	AL	W	3			3							X	
21	MW-23-053119		0923	AL	W	3			3							X	
22	MW-07-053119		1011	AL	W	3			3							X	
23	DUP-1-053119		1000	AL	W	3			3							X	
24	MW-22-053119		1111	AL	W	3			3							X	

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alex Lund	6/03/19 515	2 FX	3 FX	6-4-19	4 [illegible signature]
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):______ http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FA64743: Chain of Custody
Page 2 of 4

~~FA64734~~ FA64743

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : PAGE_____OF_______

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: ERM
Address: 1218 3rd Avenue
City: Seattle State: WA Zip: 98101
Project Contact: Dylan Stankus Email: Dylan.Stankus@erm.com
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: AL Sampler 2:

Project Information

Project Name: Kent 212th
Street: 8201 S. 212th St
City: Kent State: WA
Project #: 0487093
Fax #:
Client Purchase Order #:

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH/ZNAC	DI WATER	MEOH	VOC's	LAB USE ONLY
25	MW-20-060319	06/03/19	1500	AL	W	3			3							X	
26	MW-27-060319		1542	AL	W	3			3							X	

FA64743 6/5/19

Turnaround Time (Business days)

10 Day (Business) — Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alison Lunde	6/03/19 515	2 FX	3 FX		4 Fettell 6/4/19 906
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 1.3

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FA64743: Chain of Custody
Page 3 of 4

SGS Sample Receipt Summary

Job Number: FA64743 **Client:** ERM/UNIVAR **Project:** KENT 212TH

Date / Time Received: 6/4/2019 9:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 790957621749, 790957621750

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☑	☐	☐
2. Trip Blank listed on COC	☑	☐	☐
	W	**S**	**N/A**
3. Type Of TB Received	☑	☐	☐

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☑	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram ______ 5-Gram ______ Number of 5035 Field Kits: ______ Number of Lab Filtered Metals: ______

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) ______ ______

Residual Chlorine Test Strip Lot #: ______

Comments

SM001
Rev. Date 05/24/17

Technician: TRINITYM Date: 6/4/2019 9:00:00 AM Reviewer: PH Date: 6/6/2019

FA64743: Chain of Custody
Page 4 of 4

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2142-MB	E099419.D	1	06/07/19	AB	n/a	n/a	VE2142

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-2, FA64743-3, FA64743-5, FA64743-6, FA64743-7, FA64743-8, FA64743-9, FA64743-10, FA64743-11, FA64743-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2142-MB	E099419.D	1	06/07/19	AB	n/a	n/a	VE2142

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-2, FA64743-3, FA64743-5, FA64743-6, FA64743-7, FA64743-8, FA64743-9, FA64743-10, FA64743-11, FA64743-12

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2144-MB	E099484.D	1	06/11/19	AB	n/a	n/a	VE2144

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-13, FA64743-14, FA64743-15, FA64743-16, FA64743-17, FA64743-18

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2144-MB	E099484.D	1	06/11/19	AB	n/a	n/a	VE2144

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-13, FA64743-14, FA64743-15, FA64743-16, FA64743-17, FA64743-18

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2146-MB	E099503.D	1	06/12/19	AB	n/a	n/a	VE2146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-1, FA64743-2, FA64743-3, FA64743-4, FA64743-6, FA64743-10, FA64743-12, FA64743-18, FA64743-19, FA64743-20, FA64743-21, FA64743-22, FA64743-23, FA64743-24, FA64743-25, FA64743-26

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2146-MB	E099503.D	1	06/12/19	AB	n/a	n/a	VE2146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-1, FA64743-2, FA64743-3, FA64743-4, FA64743-6, FA64743-10, FA64743-12, FA64743-18, FA64743-19, FA64743-20, FA64743-21, FA64743-22, FA64743-23, FA64743-24, FA64743-25, FA64743-26

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Method Blank Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2147-MB	E099530.D	1	06/13/19	AB	n/a	n/a	VE2147

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-20, FA64743-24, FA64743-25

CAS No.	Compound	Result	RL	MDL	Units	Q
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2142-BS	E099417.D	1	06/07/19	AB	n/a	n/a	VE2142

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-2, FA64743-3, FA64743-5, FA64743-6, FA64743-7, FA64743-8, FA64743-9, FA64743-10, FA64743-11, FA64743-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	59.9	120	50-147
71-43-2	Benzene	10	10.3	103	81-122
108-86-1	Bromobenzene	10	9.5	95	80-121
75-27-4	Bromodichloromethane	10	10.0	100	79-123
75-25-2	Bromoform	10	8.8	88	66-123
104-51-8	n-Butylbenzene	10	9.7	97	79-126
135-98-8	sec-Butylbenzene	10	10.6	106	83-133
98-06-6	tert-Butylbenzene	10	9.9	99	80-133
56-23-5	Carbon Tetrachloride	10	11.0	110	76-136
108-90-7	Chlorobenzene	10	10.1	101	82-124
75-00-3	Chloroethane	10	10.9	109	62-144
67-66-3	Chloroform	10	10.5	105	80-124
95-49-8	o-Chlorotoluene	10	9.8	98	81-127
106-43-4	p-Chlorotoluene	10	9.7	97	83-130
124-48-1	Dibromochloromethane	10	9.0	90	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.0	90	64-123
106-93-4	1,2-Dibromoethane	10	9.3	93	75-120
75-71-8	Dichlorodifluoromethane	10	8.6	86	42-167
95-50-1	1,2-Dichlorobenzene	10	9.6	96	82-124
541-73-1	1,3-Dichlorobenzene	10	10	100	84-125
106-46-7	1,4-Dichlorobenzene	10	9.7	97	78-120
75-34-3	1,1-Dichloroethane	10	10.7	107	81-122
107-06-2	1,2-Dichloroethane	10	9.7	97	75-125
75-35-4	1,1-Dichloroethylene	10	11.3	113	78-137
156-59-2	cis-1,2-Dichloroethylene	10	10.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	10	10.4	104	76-127
78-87-5	1,2-Dichloropropane	10	10.2	102	76-124
142-28-9	1,3-Dichloropropane	10	9.1	91	80-118
594-20-7	2,2-Dichloropropane	10	11.4	114	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.4	94	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.2	92	80-120
100-41-4	Ethylbenzene	10	10.3	103	81-121
110-54-3	Hexane	10	10.4	104	69-132
98-82-8	Isopropylbenzene	10	11.0	110	83-132
99-87-6	p-Isopropyltoluene	10	9.6	96	79-130
74-83-9	Methyl Bromide	10	10.5	105	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2142-BS	E099417.D	1	06/07/19	AB	n/a	n/a	VE2142

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-2, FA64743-3, FA64743-5, FA64743-6, FA64743-7, FA64743-8, FA64743-9, FA64743-10, FA64743-11, FA64743-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	10.5	105	50-159
74-95-3	Methylene Bromide	10	9.9	99	78-119
75-09-2	Methylene Chloride	10	10.3	103	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.4	99	66-122
103-65-1	n-Propylbenzene	10	10.1	101	82-133
100-42-5	Styrene	10	8.9	89	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.9	99	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	9.8	98	72-120
127-18-4	Tetrachloroethylene	10	10.6	106	76-135
108-88-3	Toluene	10	10.1	101	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.5	95	73-129
71-55-6	1,1,1-Trichloroethane	10	10.3	103	75-130
79-00-5	1,1,2-Trichloroethane	10	9.5	95	76-119
79-01-6	Trichloroethylene	10	10.2	102	81-126
75-69-4	Trichlorofluoromethane	10	11.1	111	71-156
96-18-4	1,2,3-Trichloropropane	10	8.8	88	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.7	97	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.1	101	79-120
75-01-4	Vinyl Chloride	10	10.4	104	69-159
	m,p-Xylene	20	20.7	104	79-126
95-47-6	o-Xylene	10	9.9	99	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2144-BS	E099482.D	1	06/11/19	AB	n/a	n/a	VE2144

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-13, FA64743-14, FA64743-15, FA64743-16, FA64743-17, FA64743-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	56.2	112	50-147
71-43-2	Benzene	10	9.7	97	81-122
108-86-1	Bromobenzene	10	9.2	92	80-121
75-27-4	Bromodichloromethane	10	9.2	92	79-123
75-25-2	Bromoform	10	8.4	84	66-123
104-51-8	n-Butylbenzene	10	9.6	96	79-126
135-98-8	sec-Butylbenzene	10	9.6	96	83-133
98-06-6	tert-Butylbenzene	10	9.3	93	80-133
56-23-5	Carbon Tetrachloride	10	10.1	101	76-136
108-90-7	Chlorobenzene	10	8.9	89	82-124
75-00-3	Chloroethane	10	9.9	99	62-144
67-66-3	Chloroform	10	9.3	93	80-124
95-49-8	o-Chlorotoluene	10	9.5	95	81-127
106-43-4	p-Chlorotoluene	10	9.6	96	83-130
124-48-1	Dibromochloromethane	10	9.2	92	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	8.5	85	64-123
106-93-4	1,2-Dibromoethane	10	9.2	92	75-120
75-71-8	Dichlorodifluoromethane	10	10.3	103	42-167
95-50-1	1,2-Dichlorobenzene	10	9.3	93	82-124
541-73-1	1,3-Dichlorobenzene	10	9.5	95	84-125
106-46-7	1,4-Dichlorobenzene	10	9.1	91	78-120
75-34-3	1,1-Dichloroethane	10	9.7	97	81-122
107-06-2	1,2-Dichloroethane	10	9.1	91	75-125
75-35-4	1,1-Dichloroethylene	10	10.2	102	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.5	95	78-120
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	76-127
78-87-5	1,2-Dichloropropane	10	9.4	94	76-124
142-28-9	1,3-Dichloropropane	10	8.8	88	80-118
594-20-7	2,2-Dichloropropane	10	10.6	106	74-139
10061-01-5	cis-1,3-Dichloropropene	10	8.3	83	75-118
10061-02-6	trans-1,3-Dichloropropene	10	8.8	88	80-120
100-41-4	Ethylbenzene	10	9.4	94	81-121
110-54-3	Hexane	10	9.9	99	69-132
98-82-8	Isopropylbenzene	10	9.4	94	83-132
99-87-6	p-Isopropyltoluene	10	9.5	95	79-130
74-83-9	Methyl Bromide	10	10.0	100	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2144-BS	E099482.D	1	06/11/19	AB	n/a	n/a	VE2144

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-13, FA64743-14, FA64743-15, FA64743-16, FA64743-17, FA64743-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.2	112	50-159
74-95-3	Methylene Bromide	10	9.0	90	78-119
75-09-2	Methylene Chloride	10	9.2	92	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	44.4	89	66-122
103-65-1	n-Propylbenzene	10	9.6	96	82-133
100-42-5	Styrene	10	8.5	85	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.1	91	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	9.3	93	72-120
127-18-4	Tetrachloroethylene	10	9.8	98	76-135
108-88-3	Toluene	10	9.4	94	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.4	94	73-129
71-55-6	1,1,1-Trichloroethane	10	9.7	97	75-130
79-00-5	1,1,2-Trichloroethane	10	8.8	88	76-119
79-01-6	Trichloroethylene	10	9.3	93	81-126
75-69-4	Trichlorofluoromethane	10	11.4	114	71-156
96-18-4	1,2,3-Trichloropropane	10	8.9	89	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.5	95	79-120
108-67-8	1,3,5-Trimethylbenzene	10	9.4	94	79-120
75-01-4	Vinyl Chloride	10	11.3	113	69-159
	m,p-Xylene	20	19.0	95	79-126
95-47-6	o-Xylene	10	9.5	95	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2146-BS	E099501.D	1	06/12/19	AB	n/a	n/a	VE2146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-1, FA64743-2, FA64743-3, FA64743-4, FA64743-6, FA64743-10, FA64743-12, FA64743-18, FA64743-19, FA64743-20, FA64743-21, FA64743-22, FA64743-23, FA64743-24, FA64743-25, FA64743-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	60.9	122	50-147
71-43-2	Benzene	10	9.5	95	81-122
108-86-1	Bromobenzene	10	8.8	88	80-121
75-27-4	Bromodichloromethane	10	9.0	90	79-123
75-25-2	Bromoform	10	8.1	81	66-123
104-51-8	n-Butylbenzene	10	9.2	92	79-126
135-98-8	sec-Butylbenzene	10	9.1	91	83-133
98-06-6	tert-Butylbenzene	10	8.7	87	80-133
56-23-5	Carbon Tetrachloride	10	10.3	103	76-136
108-90-7	Chlorobenzene	10	8.7	87	82-124
75-00-3	Chloroethane	10	9.2	92	62-144
67-66-3	Chloroform	10	9.2	92	80-124
95-49-8	o-Chlorotoluene	10	9.0	90	81-127
106-43-4	p-Chlorotoluene	10	9.0	90	83-130
124-48-1	Dibromochloromethane	10	8.9	89	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	8.5	85	64-123
106-93-4	1,2-Dibromoethane	10	8.8	88	75-120
75-71-8	Dichlorodifluoromethane	10	9.2	92	42-167
95-50-1	1,2-Dichlorobenzene	10	9.0	90	82-124
541-73-1	1,3-Dichlorobenzene	10	9.1	91	84-125
106-46-7	1,4-Dichlorobenzene	10	8.7	87	78-120
75-34-3	1,1-Dichloroethane	10	9.6	96	81-122
107-06-2	1,2-Dichloroethane	10	9.1	91	75-125
75-35-4	1,1-Dichloroethylene	10	10.3	103	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	76-127
78-87-5	1,2-Dichloropropane	10	9.2	92	76-124
142-28-9	1,3-Dichloropropane	10	8.5	85	80-118
594-20-7	2,2-Dichloropropane	10	10.5	105	74-139
10061-01-5	cis-1,3-Dichloropropene	10	8.4	84	75-118
10061-02-6	trans-1,3-Dichloropropene	10	8.7	87	80-120
100-41-4	Ethylbenzene	10	9.1	91	81-121
110-54-3	Hexane	10	10	100	69-132
98-82-8	Isopropylbenzene	10	9.2	92	83-132
99-87-6	p-Isopropyltoluene	10	9.0	90	79-130
74-83-9	Methyl Bromide	10	9.4	94	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2146-BS	E099501.D	1	06/12/19	AB	n/a	n/a	VE2146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-1, FA64743-2, FA64743-3, FA64743-4, FA64743-6, FA64743-10, FA64743-12, FA64743-18, FA64743-19, FA64743-20, FA64743-21, FA64743-22, FA64743-23, FA64743-24, FA64743-25, FA64743-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	10.3	103	50-159
74-95-3	Methylene Bromide	10	9.2	92	78-119
75-09-2	Methylene Chloride	10	9.3	93	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	44.9	90	66-122
103-65-1	n-Propylbenzene	10	9.2	92	82-133
100-42-5	Styrene	10	8.2	82	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	8.8	88	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	9.1	91	72-120
127-18-4	Tetrachloroethylene	10	9.5	95	76-135
108-88-3	Toluene	10	9.1	91	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93	73-129
71-55-6	1,1,1-Trichloroethane	10	9.7	97	75-130
79-00-5	1,1,2-Trichloroethane	10	8.9	89	76-119
79-01-6	Trichloroethylene	10	9.2	92	81-126
75-69-4	Trichlorofluoromethane	10	10.4	104	71-156
96-18-4	1,2,3-Trichloropropane	10	8.7	87	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.0	90	79-120
108-67-8	1,3,5-Trimethylbenzene	10	8.8	88	79-120
75-01-4	Vinyl Chloride	10	10.1	101	69-159
	m,p-Xylene	20	18.3	92	79-126
95-47-6	o-Xylene	10	9.2	92	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2147-BS	E099528.D	1	06/13/19	AB	n/a	n/a	VE2147

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-20, FA64743-24, FA64743-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-00-3	Chloroethane	10	9.8	98	62-144
156-59-2	cis-1,2-Dichloroethylene	10	9.6	96	78-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-1MS	E099429.D	1	06/07/19	AB	n/a	n/a	VE2142
FA64743-1MSD	E099430.D	1	06/07/19	AB	n/a	n/a	VE2142
FA64743-1 [a]	E099425.D	1	06/07/19	AB	n/a	n/a	VE2142

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-2, FA64743-3, FA64743-5, FA64743-6, FA64743-7, FA64743-8, FA64743-9, FA64743-10, FA64743-11, FA64743-12

CAS No.	Compound	FA64743-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	24.3		50	56.7	65	50	57.8	67	2	50-147/21
71-43-2	Benzene	2.6		10	12.6	100	10	12.9	103	2	81-122/14
108-86-1	Bromobenzene	ND		10	9.4	94	10	9.6	96	2	80-121/14
75-27-4	Bromodichloromethane	ND		10	9.2	92	10	9.5	95	3	79-123/19
75-25-2	Bromoform	ND		10	5.8	58*	10	5.9	59*	2	66-123/21
104-51-8	n-Butylbenzene	0.41	J	10	10.2	98	10	10.2	98	0	79-126/16
135-98-8	sec-Butylbenzene	1.8		10	12.6	108	10	12.6	108	0	83-133/16
98-06-6	tert-Butylbenzene	0.26	J	10	10.2	99	10	10.2	99	0	80-133/16
56-23-5	Carbon Tetrachloride	ND		10	10.3	103	10	10.4	104	1	76-136/23
108-90-7	Chlorobenzene	ND		10	9.6	96	10	9.8	98	2	82-124/14
75-00-3	Chloroethane	29.5		10	40.7	112	10	43.7	142	7	62-144/20
67-66-3	Chloroform	ND		10	10.3	103	10	10.4	104	1	80-124/15
95-49-8	o-Chlorotoluene	ND		10	9.5	95	10	9.8	98	3	81-127/15
106-43-4	p-Chlorotoluene	ND		10	9.5	95	10	9.7	97	2	83-130/15
124-48-1	Dibromochloromethane	ND		10	7.4	74*	10	7.6	76*	3	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		10	9.7	97	10	9.2	92	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		10	9.0	90	10	9.3	93	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		10	8.8	88	10	9.0	90	2	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		10	9.6	96	10	9.6	96	0	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		10	9.7	97	10	9.7	97	0	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		10	9.4	94	10	9.7	97	3	78-120/15
75-34-3	1,1-Dichloroethane	0.26	J	10	10.7	104	10	10.8	105	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		10	9.6	96	10	9.8	98	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		10	10.6	106	10	10.9	109	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		10	9.7	97	10	9.9	99	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.77		10	10.7	99	10	11.0	102	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		10	10	100	10	10.1	101	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		10	8.8	88	10	9.2	92	4	80-118/13
594-20-7	2,2-Dichloropropane	ND		10	10.5	105	10	10.5	105	0	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		10	7.5	75	10	7.5	75	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		10	7.4	74*	10	7.5	75*	1	80-120/22
100-41-4	Ethylbenzene	0.35	J	10	10.2	99	10	10.4	101	2	81-121/14
110-54-3	Hexane	0.41	J	10	10.3	99	10	10.6	102	3	69-132/20
98-82-8	Isopropylbenzene	36.0		10	47.1	111	10	46.3	103	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		10	9.3	93	10	9.4	94	1	79-130/16
74-83-9	Methyl Bromide	ND		10	12.3	123	10	12.3	123	0	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-1MS	E099429.D	1	06/07/19	AB	n/a	n/a	VE2142
FA64743-1MSD	E099430.D	1	06/07/19	AB	n/a	n/a	VE2142
FA64743-1 [a]	E099425.D	1	06/07/19	AB	n/a	n/a	VE2142

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-2, FA64743-3, FA64743-5, FA64743-6, FA64743-7, FA64743-8, FA64743-9, FA64743-10, FA64743-11, FA64743-12

CAS No.	Compound	FA64743-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	0.31	J	10	9.8	95	10	10.1	98	3	50-159/19
74-95-3	Methylene Bromide	ND		10	9.8	98	10	9.9	99	1	78-119/14
75-09-2	Methylene Chloride	ND		10	10.3	103	10	10.3	103	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	51.6	103	50	51.9	104	1	66-122/16
103-65-1	n-Propylbenzene	32.3		10	42.7	104	10	41.8	95	2	82-133/15
100-42-5	Styrene	ND		10	6.7	67*	10	6.8	68*	1	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		10	9.4	94	10	9.4	94	0	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	10.1	101	10	10.2	102	1	72-120/14
127-18-4	Tetrachloroethylene	ND		10	10	100	10	10.2	102	2	76-135/16
108-88-3	Toluene	0.22	J	10	9.7	95	10	10.0	98	3	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		10	9.7	97	10	9.6	96	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		10	10.1	101	10	10.3	103	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		10	9.8	98	10	10.1	101	3	76-119/14
79-01-6	Trichloroethylene	ND		10	9.8	98	10	10	100	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		10	11.2	112	10	11.6	116	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		10	8.9	89	10	9.1	91	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	0.21	J	10	9.5	93	10	9.5	93	0	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		10	9.4	94	10	9.7	97	3	79-120/19
75-01-4	Vinyl Chloride	0.33	J	10	10.7	104	10	11.5	112	7	69-159/18
	m,p-Xylene	0.16	J	20	19.4	96	20	20.3	101	5	79-126/15
95-47-6	o-Xylene	ND		10	9.5	95	10	9.8	98	3	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA64743-1	Limits
1868-53-7	Dibromofluoromethane	103%	102%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	106%	103%	79-125%
2037-26-5	Toluene-D8	96%	97%	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	97%	95%	83-118%

(a) Confirmation run.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-15MS	E099495.D	5	06/11/19	AB	n/a	n/a	VE2144
FA64743-15MSD	E099496.D	5	06/11/19	AB	n/a	n/a	VE2144
FA64743-15	E099486.D	1	06/11/19	AB	n/a	n/a	VE2144

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-13, FA64743-14, FA64743-15, FA64743-16, FA64743-17, FA64743-18

CAS No.	Compound	FA64743-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	259	104	250	257	103	1	50-147/21
71-43-2	Benzene	ND		50	48.5	97	50	46.9	94	3	81-122/14
108-86-1	Bromobenzene	ND		50	45.0	90	50	44.1	88	2	80-121/14
75-27-4	Bromodichloromethane	ND		50	41.7	83	50	40.0	80	4	79-123/19
75-25-2	Bromoform	ND		50	25.7	51*	50	24.9	50*	3	66-123/21
104-51-8	n-Butylbenzene	ND		50	45.3	91	50	43.4	87	4	79-126/16
135-98-8	sec-Butylbenzene	ND		50	45.6	91	50	44.0	88	4	83-133/16
98-06-6	tert-Butylbenzene	ND		50	43.8	88	50	42.3	85	3	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	52.5	105	50	49.3	99	6	76-136/23
108-90-7	Chlorobenzene	ND		50	44.6	89	50	43.1	86	3	82-124/14
75-00-3	Chloroethane	ND		50	44.8	90	50	38.3	77	16	62-144/20
67-66-3	Chloroform	ND		50	47.4	95	50	46.1	92	3	80-124/15
95-49-8	o-Chlorotoluene	ND		50	45.1	90	50	44.1	88	2	81-127/15
106-43-4	p-Chlorotoluene	ND		50	45.0	90	50	44.1	88	2	83-130/15
124-48-1	Dibromochloromethane	ND		50	34.8	70*	50	32.4	65*	7	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	40.9	82	50	40.8	82	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	44.3	89	50	43.3	87	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	44.4	89	50	38.5	77	14	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	45.0	90	50	43.5	87	3	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	45.6	91	50	44.0	88	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	43.6	87	50	43.1	86	1	78-120/15
75-34-3	1,1-Dichloroethane	ND		50	49.3	99	50	48.0	96	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		50	46.3	93	50	45.0	90	3	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	53.6	107	50	51.2	102	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		50	47.0	94	50	46.2	92	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		50	48.2	96	50	47.2	94	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	46.0	92	50	45.9	92	0	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	42.5	85	50	41.2	82	3	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	50.9	102	50	47.4	95	7	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	36.7	73*	50	35.8	72*	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	41.7	83	50	39.2	78*	6	80-120/22
100-41-4	Ethylbenzene	ND		50	45.7	91	50	44.3	89	3	81-121/14
110-54-3	Hexane	ND		50	48.2	96	50	46.5	93	4	69-132/20
98-82-8	Isopropylbenzene	ND		50	45.6	91	50	44.0	88	4	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	45.1	90	50	43.6	87	3	79-130/16
74-83-9	Methyl Bromide	ND		50	50.4	101	50	42.0	84	18	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-15MS	E099495.D	5	06/11/19	AB	n/a	n/a	VE2144
FA64743-15MSD	E099496.D	5	06/11/19	AB	n/a	n/a	VE2144
FA64743-15	E099486.D	1	06/11/19	AB	n/a	n/a	VE2144

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-13, FA64743-14, FA64743-15, FA64743-16, FA64743-17, FA64743-18

CAS No.	Compound	FA64743-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		50	49.4	99	50	44.8	90	10	50-159/19
74-95-3	Methylene Bromide	ND		50	48.2	96	50	46.2	92	4	78-119/14
75-09-2	Methylene Chloride	ND		50	51.2	102	50	49.6	99	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	228	91	250	226	90	1	66-122/16
103-65-1	n-Propylbenzene	ND		50	46.4	93	50	44.7	89	4	82-133/15
100-42-5	Styrene	ND		50	40.8	82	50	39.4	79	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	44.3	89	50	43.2	86	3	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	46.9	94	50	45.7	91	3	72-120/14
127-18-4	Tetrachloroethylene	ND		50	46.6	93	50	46.0	92	1	76-135/16
108-88-3	Toluene	ND		50	45.7	91	50	44.3	89	3	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	42.0	84	50	40.1	80	5	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	48.7	97	50	47.4	95	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	45.2	90	50	43.8	88	3	76-119/14
79-01-6	Trichloroethylene	ND		50	45.5	91	50	44.1	88	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	50.3	101	50	42.7	85	16	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	44.0	88	50	43.0	86	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		50	44.9	90	50	43.7	87	3	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		50	44.2	88	50	43.2	86	2	79-120/19
75-01-4	Vinyl Chloride	ND		50	47.5	95	50	42.1	84	12	69-159/18
	m,p-Xylene	ND		100	91.9	92	100	89.5	90	3	79-126/15
95-47-6	o-Xylene	ND		50	45.1	90	50	44.1	88	2	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA64743-15	Limits
1868-53-7	Dibromofluoromethane	101%	102%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	100%	79-125%
2037-26-5	Toluene-D8	98%	98%	92%	85-112%
460-00-4	4-Bromofluorobenzene	98%	99%	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-1MS	E099512.D	5	06/12/19	AB	n/a	n/a	VE2146
FA64743-1MSD	E099513.D	5	06/12/19	AB	n/a	n/a	VE2146
FA64743-1	E099504.D	1	06/12/19	AB	n/a	n/a	VE2146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-1, FA64743-2, FA64743-3, FA64743-4, FA64743-6, FA64743-10, FA64743-12, FA64743-18, FA64743-19, FA64743-20, FA64743-21, FA64743-22, FA64743-23, FA64743-24, FA64743-25, FA64743-26

CAS No.	Compound	FA64743-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	251	100	250	256	102	2	50-147/21
71-43-2	Benzene	2.3		50	49.7	95	50	51.1	98	3	81-122/14
108-86-1	Bromobenzene	ND		50	43.3	87	50	45.1	90	4	80-121/14
75-27-4	Bromodichloromethane	ND		50	41.0	82	50	41.4	83	1	79-123/19
75-25-2	Bromoform	ND		50	23.5	47*	50	24.9	50*	6	66-123/21
104-51-8	n-Butylbenzene	0.30	J	50	46.1	92	50	48.4	96	5	79-126/16
135-98-8	sec-Butylbenzene	1.2		50	45.8	89	50	47.6	93	4	83-133/16
98-06-6	tert-Butylbenzene	0.20	J	50	43.3	86	50	45.3	90	5	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	51.4	103	50	52.7	105	2	76-136/23
108-90-7	Chlorobenzene	ND		50	43.5	87	50	44.6	89	2	82-124/14
75-00-3	Chloroethane	21.8		50	65.5	87	50	66.0	88	1	62-144/20
67-66-3	Chloroform	ND		50	46.4	93	50	48.1	96	4	80-124/15
95-49-8	o-Chlorotoluene	ND		50	44.3	89	50	45.1	90	2	81-127/15
106-43-4	p-Chlorotoluene	ND		50	44.6	89	50	46.2	92	4	83-130/15
124-48-1	Dibromochloromethane	ND		50	32.9	66*	50	34.5	69*	5	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	42.8	86	50	43.3	87	1	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	43.9	88	50	44.5	89	1	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	48.8	98	50	47.1	94	4	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	44.1	88	50	46.5	93	5	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	45.0	90	50	47.0	94	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	43.0	86	50	43.8	88	2	78-120/15
75-34-3	1,1-Dichloroethane	0.20	J	50	49.7	99	50	50.4	100	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		50	46.3	93	50	46.5	93	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	52.5	105	50	53.0	106	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		50	47.5	95	50	49.1	98	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.68		50	48.8	96	50	50.3	99	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	46.5	93	50	47.7	95	3	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	42.2	84	50	42.9	86	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	51.3	103	50	52.7	105	3	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	38.0	76	50	38.4	77	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	39.1	78*	50	41.0	82	5	80-120/22
100-41-4	Ethylbenzene	0.24	J	50	45.3	90	50	46.9	93	3	81-121/14
110-54-3	Hexane	0.38	J	50	49.6	98	50	50.8	101	2	69-132/20
98-82-8	Isopropylbenzene	26.4		50	65.7	79*	50	67.4	82*	3	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	44.4	89	50	46.4	93	4	79-130/16
74-83-9	Methyl Bromide	ND		50	54.3	109	50	51.7	103	5	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-1MS	E099512.D	5	06/12/19	AB	n/a	n/a	VE2146
FA64743-1MSD	E099513.D	5	06/12/19	AB	n/a	n/a	VE2146
FA64743-1	E099504.D	1	06/12/19	AB	n/a	n/a	VE2146

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-1, FA64743-2, FA64743-3, FA64743-4, FA64743-6, FA64743-10, FA64743-12, FA64743-18, FA64743-19, FA64743-20, FA64743-21, FA64743-22, FA64743-23, FA64743-24, FA64743-25, FA64743-26

CAS No.	Compound	FA64743-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	0.21	J	50	51.2	102	50	51.0	102	0	50-159/19
74-95-3	Methylene Bromide	ND		50	47.4	95	50	47.6	95	0	78-119/14
75-09-2	Methylene Chloride	ND		50	49.0	98	50	50.1	100	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	218	87	250	220	88	1	66-122/16
103-65-1	n-Propylbenzene	24.4		50	63.8	79*	50	65.7	83	3	82-133/15
100-42-5	Styrene	ND		50	38.6	77*	50	39.8	80	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	43.0	86	50	44.7	89	4	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	45.3	91	50	46.5	93	3	72-120/14
127-18-4	Tetrachloroethylene	ND		50	47.3	95	50	48.6	97	3	76-135/16
108-88-3	Toluene	0.17	J	50	45.1	90	50	46.7	93	3	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	41.9	84	50	45.9	92	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	48.5	97	50	49.8	100	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	44.6	89	50	45.5	91	2	76-119/14
79-01-6	Trichloroethylene	ND		50	45.8	92	50	46.3	93	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	54.3	109	50	54.4	109	0	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	43.7	87	50	44.7	89	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	0.20	J	50	44.9	89	50	46.7	93	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		50	43.7	87	50	45.2	90	3	79-120/19
75-01-4	Vinyl Chloride	0.26	J	50	53.1	106	50	53.1	106	0	69-159/18
	m,p-Xylene	0.14	J	100	90.6	90	100	93.7	94	3	79-126/15
95-47-6	o-Xylene	ND		50	44.8	90	50	46.5	93	4	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA64743-1	Limits
1868-53-7	Dibromofluoromethane	102%	100%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	100%	79-125%
2037-26-5	Toluene-D8	97%	99%	97%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA64743
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA64743-24MS	E099534.D	10	06/13/19	AB	n/a	n/a	VE2147
FA64743-24MSD	E099535.D	10	06/13/19	AB	n/a	n/a	VE2147
FA64743-24 [a]	E099533.D	2.5	06/13/19	AB	n/a	n/a	VE2147

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA64743-20, FA64743-24, FA64743-25

CAS No.	Compound	FA64743-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-00-3	Chloroethane	44.7		100	120	75	100	135	90	12	62-144/20
156-59-2	cis-1,2-Dichloroethylene	60.0		100	154	94	100	157	97	2	78-120/15

CAS No.	Surrogate Recoveries	MS	MSD	FA64743-24	Limits
1868-53-7	Dibromofluoromethane	100%	101%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	104%	109%	79-125%
2037-26-5	Toluene-D8	99%	101%	97%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	98%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Univar

ERMORP: Univar; 8201 S 212th St, Kent, WA

SGS Job Number: FA67623

Sampling Dates: 08/26/19 - 08/28/19

Report to:

ERM
1050 SW 6th Ave Suite 1650
Portland, OR 97204
Dylan.Stankus@erm.com; Alison.Lunde@erm.com

ATTN: Dylan Stankus

Total number of pages in report: **79**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions

Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

SGS North America Inc.

Sample Summary

Univar

ERMORP: Univar; 8201 S 212th St, Kent, WA

Job No: FA67623

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
FA67623-1	08/26/19	11:01	AL	08/29/19	AQ	Ground Water	MW-19-082619
FA67623-2	08/26/19	12:18	AL	08/29/19	AQ	Ground Water	MW-03-082619
FA67623-3	08/26/19	13:35	AL	08/29/19	AQ	Ground Water	MW-07-082619
FA67623-4	08/26/19	14:55	AL	08/29/19	AQ	Ground Water	MW-23-082619
FA67623-5	08/26/19	16:02	AL	08/29/19	AQ	Ground Water	MW-10-082619
FA67623-6	08/27/19	09:04	AL	08/29/19	AQ	Ground Water	MW-08-082719
FA67623-7	08/27/19	10:05	AL	08/29/19	AQ	Ground Water	MW-09-082719
FA67623-8	08/27/19	11:21	AL	08/29/19	AQ	Ground Water	MW-05-082719
FA67623-9	08/27/19	12:24	AL	08/29/19	AQ	Ground Water	MW-12-082719
FA67623-10	08/27/19	13:44	AL	08/29/19	AQ	Ground Water	MW-04-082719
FA67623-10D	08/27/19	13:44	AL	08/29/19	AQ	Water Dup/MSD	MW-04-082719
FA67623-10S	08/27/19	13:44	AL	08/29/19	AQ	Water Matrix Spike	MW-04-082719

SGS North America Inc.

Sample Summary
(continued)

Univar

ERMORP: Univar; 8201 S 212th St, Kent, WA

Job No: FA67623

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA67623-11	08/27/19	15:35	AL	08/29/19	AQ	Ground Water	MW-01-082719
FA67623-12	08/28/19	08:11	AL	08/29/19	AQ	Ground Water	MW-20-082819
FA67623-13	08/28/19	08:58	AL	08/29/19	AQ	Ground Water	MW-27-082819
FA67623-14	08/28/19	10:00	AL	08/29/19	AQ	Ground Water	MW-28-082819
FA67623-15	08/28/19	11:12	AL	08/29/19	AQ	Ground Water	MW-14-082819
FA67623-16	08/28/19	12:25	AL	08/29/19	AQ	Ground Water	MW-13-082819
FA67623-17	08/28/19	13:47	AL	08/29/19	AQ	Ground Water	MW-17-082819
FA67623-18	08/28/19	14:50	AL	08/29/19	AQ	Ground Water	MW-18-082819
FA67623-19	08/28/19	15:42	AL	08/29/19	AQ	Ground Water	MW-22-082819
FA67623-20	08/28/19	16:30	AL	08/29/19	AQ	Ground Water	DUP-02-082819
FA67623-21	08/26/19	00:00	AL	08/29/19	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Univar **Job No:** FA67623

Site: ERMORP: Univar; 8201 S 212th St, Kent, WA **Report Date:** 9/7/2019 6:15:17 PM

20 Samples and 1 Trip Blank were collected on between 08/26/2019 and 08/28/2019 and were received at SGS North America Inc - Orlando on 08/29/2019 properly preserved, at 2.6 Deg. C and intact. These Samples received an SGS Orlando job number of FA67623. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VE2197

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA67623-10MS, FA67623-10MSD were used as the QC samples indicated.

Sample(s) FA67623-8, FA67623-9 have compounds reported from the diluted analysis.

Matrix Spike Recovery(s) for cis-1,3-Dichloropropene, Styrene, Chloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Duplicate Recovery(s) for Chloroethane, cis-1,3-Dichloropropene, Styrene, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Chloroethane are outside control limits for sample FA67623-10MSD. Probable cause is due to sample non-homogeneity.

FA67623-9 for Methylene Chloride: Suspected laboratory contaminant.

FA67623-8 for Methylene Chloride: Suspected laboratory contaminant.

Matrix: AQ **Batch ID:** VE2198

All samples were analyzed within the recommended method holding time.

Sample(s) FA67623-13MS, FA67623-13MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA67623-11, FA67623-12, FA67623-16, FA67623-17, FA67623-19, FA67623-20 have compounds reported from the diluted analysis.

Matrix Spike Recovery(s) for Bromoform are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform are outside control limits. Probable cause is due to matrix interference.

FA67623-12: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67623-16: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67623-18: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67623-20: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67623-17: Sample was not preserved to a pH < 2. Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VE2199

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA67623-16MS, FA67623-16MSD were used as the QC samples indicated.

Sample(s) FA67623-17, FA67623-20 have compounds reported from the diluted analysis.

Matrix Spike Recovery(s) for 1,2,4-Trimethylbenzene, Bromoform, Chloroethane, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform, Chloroethane are outside control limits. Probable cause is due to matrix interference.

FA67623-16: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67623-17: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67623-20: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

____

Jenna Kravitz, Client Services *(Signature on File)*

Laboratory Report Glossary

Client Sample ID: Normally refers to a point of collection – a monitoring well, discharge outfall, treatment facility intake, soil core grid location and depth, or any other identification client assigns to a sample.
Lab Sample ID: Letter prefix identifies one of the SGS laboratories and the rest is a consecutive number of the job (or SDG) received. Number after dash is a sample number and it is unequivocally linked in the LIMS to the Client Sample ID (see above).
Matrix (Matrix Code):

- **AQ- Water Samples**
- **SO- Soil/Solid Samples**
- **LIQ- Non-Water Liquid Samples**
- **OIL- Oil Samples**

Matrix Type:

- **SW for Surface Water**
- **SO for Soil/Sediment**
- **GW for Ground Water**
- **DW for Drinking Water**

All available definitions are found on Chain of Custody form.

Deg. C: Degrees Celsius, measurement of temperature.
Method: Analytical and preparation methods used for the analysis, with the version or revision identified.
Date Sampled: This information is entered from Chain of Custody at the time of login for every sample.
Date Received: When the job was received by one of the SGS Laboratories.
Percent Solids: Applicable only to SO matrix. For other matrices this field defaults to "n/a".
Run #: Provides information how many attempts were made in the analysis of the sample. LIMS can merge information from several attempts and lists all of them, including dilution, confirmation, etc. #1 designation is assigned to the analytical run with majority of analytes reported from it, not necessarily in chronological order.
File ID: Actual instrument data acquisition file that produced the result. Letter prefix identifies the instrument; the rest is a consecutive injection number for that instrument.
DF (Dilution Factor): Most common reasons are either to fit into the range of the calibration or alleviate matrix interference. DF other than 1 are accompanied with a comment at the end of the sample report.
Analyzed: Date of analysis.
By: Field Technician or Analyst uniquely identified by initials.
Prep Date: Date of sample preparation. If hold time is 72 hours or less, time of preparation is also indicated.
Prep Batch: Letter prefix OP followed by a consecutive number. For VOC analysis preparation happens at the time of analysis, therefore analytical batch and preparation batch are the same. Size of prep batch is limited to 20 field samples of similar matrix and the entire batch should be completed within 12-hour time.
Analytical Batch: Letter prefix identifies the instrument and is followed by a consecutive number. Not limited by a number of samples.
Initial Weight or Initial Volume: Raw sample size used for preparation.
Final Volume: Final volume of extract. If different from method-prescribed volume, reasons are reflected in the comments at the end of the report form.
CAS Number: *Chemical Abstracts Service* (CAS), a division of the *American Chemical Society*.
Compound: Most commonly used names of chemical compounds.
Result: Depending on project requirements, this field could be set up as text, such as ND (for Non-Detected) or a number. The number may be reported with a qualifier.
MDL (Method Detection Limit): This value is defined as 99% probability that analyte above this concentration is positively (qualitatively) identified.
RL (Reporting Limit): This value is supported by the low calibration standard and defines lowest point of quantitative identification of analyte.
DL (Detection Limit): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type I error) is 1%.
LOD (Limit of Detection): The smallest concentration of a substance that must be present in a sample to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%.

LOQ (Limit of Quantitation): The smallest concentration that produces a quantitative result with known and recorded precision and bias.

2

Units: ug/l (micrograms per liter) for aqueous samples and ug/kg (micrograms per kilogram) for solids (or ppb – parts per billion). The units could be set according to project or state-specific requirements, such as mg/l (milligrams per liter), or mg/kg (milligrams per kilogram).
Qualifiers (Q): Definitions of most often used qualifiers are found at the bottom of each result page. Applied depending on the program – state-specific (Florida A.C. 62-160), CLP-like, AFCEE, DOD QSM, etc.
Tentatively Identified Compound (TIC): Used when client requests a search for analytes that are not part of instrument calibration. Unknown peaks are compared with published spectral libraries and best match is reported as TIC.
Surrogate (S1, S2, S3 etc.): are positive controls that are used in most organics methods to ascertain preparation efficiency and matrix effect in individual samples. These chemicals mimic common method constituents but are unlikely to be found in real samples. Recoveries can be reported for every analytical run used in the analysis.
IS (Internal Standard IS1, IS2, IS3, etc): quantitative reference used to adjust for instrument performance fluctuations.
Area (of chromatographic peak): signal intensity directly related to compound concentration.
RT (Retention Time): time required for analyte to traverse the length of analytical column. Used for compound identification.
ICAL (Initial Calibration): Must pass calibration criteria established by method.
ICV (Independent Calibration Verification): Used to verify ICAL preparation and concentration of calibration points.
CCV (Continuing Calibration Verification): Used to assess calibration status of the instrument and must recover within established acceptance criteria.
MB (Method Blank): is a negative batch control. MB is an aliquot of matrix free of analyte of interest (either ASTM Type II water or appropriate solid substance) that is put through all the preparation and possible clean-up steps alongside investigative (field) samples. MB should be free of interferences above a set level.
BS (Blank Spike, Laboratory Fortified Blank - LFB, Laboratory Control Sample - LCS): is a positive control used to determine method accuracy - in clean matrix, i.e. matrix free of analytes of interest.
BSD (Blank Spike Duplicate): Used to assess recovery reproducibility - method precision – per analytical method requirement. %Recovery and Relative Percent Difference (%RPD) are compared with the established acceptance criteria.
MS and/or **MSD (Matrix Spike and Matrix Spike Duplicate):** positive batch controls which indicate matrix effect on the precision and accuracy of the method in given sample matrix. Results are expressed in %Recovery and Relative Percent Difference (%RPD) and compared with the established acceptance criteria.
DUP (Matrix Duplicate): Positive batch control, a way of assessing laboratory's precision; however, the composition of the samples is unknown and may not yield meaningful results.
REC (Recovery in Percent): expresses method accuracy.
RPD (Relative Percent Difference): expresses method precision.
Limits: Recovery limits for surrogates and spikes

Summary of Hits

Job Number: FA67623
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/26/19 thru 08/28/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA67623-1	**MW-19-082619**					
Benzene		0.38 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane		1.0	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.19 J	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene		5.3	0.50	0.13	ug/l	SW846 8260B
Hexane		1.0	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.54	0.50	0.13	ug/l	SW846 8260B
n-Propylbenzene		0.55	0.50	0.13	ug/l	SW846 8260B
Toluene		0.22 J	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		4.3	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.18 J	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		0.38 J	1.0	0.13	ug/l	SW846 8260B
o-Xylene		0.32 J	0.50	0.13	ug/l	SW846 8260B
FA67623-2	**MW-03-082619**					
Benzene		0.29 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane		1.5	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.36 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.86	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.27 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.57	0.50	0.13	ug/l	SW846 8260B
FA67623-3	**MW-07-082619**					
Tetrachloroethylene		3.1	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		0.28 J	0.50	0.13	ug/l	SW846 8260B
FA67623-4	**MW-23-082619**					
cis-1,2-Dichloroethylene		0.22 J	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene		7.9	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		0.89	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.13 J	0.50	0.13	ug/l	SW846 8260B
FA67623-5	**MW-10-082619**					
No hits reported in this sample.						
FA67623-6	**MW-08-082719**					
1,1-Dichloroethylene		1.3	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		2.9	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.34 J	0.50	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA67623
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/26/19 thru 08/28/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tetrachloroethylene		0.29 J	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		14.5	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.37 J	0.50	0.13	ug/l	SW846 8260B
FA67623-7	**MW-09-082719**					
Benzene		0.56	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.43 J	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.28 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.46 J	0.50	0.13	ug/l	SW846 8260B
FA67623-8	**MW-05-082719**					
cis-1,2-Dichloroethylene		34.2	2.5	0.63	ug/l	SW846 8260B
Methylene Chloride [a]		6.4 J	10	5.0	ug/l	SW846 8260B
Tetrachloroethylene		118	2.5	0.63	ug/l	SW846 8260B
Trichloroethylene		37.9	2.5	0.63	ug/l	SW846 8260B
FA67623-9	**MW-12-082719**					
cis-1,2-Dichloroethylene		252	5.0	1.3	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		1.3 J	5.0	1.3	ug/l	SW846 8260B
Methylene Chloride [a]		13.6 J	20	10	ug/l	SW846 8260B
Tetrachloroethylene		29.0	5.0	1.3	ug/l	SW846 8260B
Trichloroethylene		10.1	5.0	1.3	ug/l	SW846 8260B
Vinyl Chloride		10	5.0	1.3	ug/l	SW846 8260B
FA67623-10	**MW-04-082719**					
Benzene		2.4	0.50	0.13	ug/l	SW846 8260B
n-Butylbenzene		0.33 J	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene		1.2	0.50	0.13	ug/l	SW846 8260B
tert-Butylbenzene		0.18 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane		30.0	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane		0.29 J	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.78	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene		0.25 J	0.50	0.13	ug/l	SW846 8260B
Hexane		0.64 J	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		22.4	0.50	0.13	ug/l	SW846 8260B
n-Propylbenzene		17.0	0.50	0.13	ug/l	SW846 8260B
Toluene		0.26 J	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.47 J	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		0.37 J	1.0	0.13	ug/l	SW846 8260B

Summary of Hits

Job Number: FA67623
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/26/19 thru 08/28/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA67623-11	**MW-01-082719**					
Benzene		0.19 J	0.50	0.13	ug/l	SW846 8260B
n-Butylbenzene		0.30 J	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene		0.46 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane		52.7	2.5	1.0	ug/l	SW846 8260B
1,1-Dichloroethane		46.7	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		2.0	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.39 J	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene		0.31 J	0.50	0.13	ug/l	SW846 8260B
Isopropylbenzene		7.2	0.50	0.13	ug/l	SW846 8260B
p-Isopropyltoluene		0.25 J	0.50	0.13	ug/l	SW846 8260B
Methylene Chloride		1.7 J	2.0	1.0	ug/l	SW846 8260B
n-Propylbenzene		8.2	0.50	0.13	ug/l	SW846 8260B
Tetrachloroethylene		0.45 J	0.50	0.13	ug/l	SW846 8260B
Toluene		0.27 J	0.50	0.13	ug/l	SW846 8260B
1,1,1-Trichloroethane		0.71	0.50	0.13	ug/l	SW846 8260B
Trichloroethylene		2.5	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		4.4	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.79	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		0.54 J	1.0	0.13	ug/l	SW846 8260B
o-Xylene		4.3	0.50	0.13	ug/l	SW846 8260B
FA67623-12	**MW-20-082819**					
Benzene		14.5	0.50	0.13	ug/l	SW846 8260B
Chloroethane [b]		234	5.0	2.0	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.14 J	0.50	0.13	ug/l	SW846 8260B
Methylene Chloride		1.1 J	2.0	1.0	ug/l	SW846 8260B
Toluene		0.51	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.17 J	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene		0.87 J	1.0	0.13	ug/l	SW846 8260B
o-Xylene		0.82	0.50	0.13	ug/l	SW846 8260B
FA67623-13	**MW-27-082819**					
Benzene		0.20 J	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethane		0.42 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.24 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride		0.30 J	0.50	0.13	ug/l	SW846 8260B
FA67623-14	**MW-28-082819**					

No hits reported in this sample.

Summary of Hits

Job Number: FA67623
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/26/19 thru 08/28/19

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA67623-15	**MW-14-082819**					
Chloroethane		0.33 J	0.50	0.20	ug/l	SW846 8260B
FA67623-16	**MW-13-082819**					
Benzene [b]		0.52	0.50	0.13	ug/l	SW846 8260B
sec-Butylbenzene [b]		0.31 J	0.50	0.13	ug/l	SW846 8260B
Chloroethane [b]		33.7	1.3	0.50	ug/l	SW846 8260B
Chloroform [b]		0.24 J	0.50	0.13	ug/l	SW846 8260B
o-Chlorotoluene [b]		0.68	0.50	0.13	ug/l	SW846 8260B
1,1-Dichloroethane [b]		0.26 J	0.50	0.13	ug/l	SW846 8260B
1,2-Dichloroethane [b]		0.20 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene [b]		0.83	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene [b]		1.0	0.50	0.13	ug/l	SW846 8260B
Ethylbenzene [b]		4.3	0.50	0.13	ug/l	SW846 8260B
Hexane [b]		2.1	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene [b]		7.6	0.50	0.13	ug/l	SW846 8260B
n-Propylbenzene [b]		13.3	0.50	0.13	ug/l	SW846 8260B
Toluene [b]		0.82	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [b]		44.7	0.50	0.13	ug/l	SW846 8260B
1,3,5-Trimethylbenzene [b]		5.7	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride [b]		0.59	0.50	0.13	ug/l	SW846 8260B
m,p-Xylene [b]		73.5	1.0	0.13	ug/l	SW846 8260B
o-Xylene [b]		0.41 J	0.50	0.13	ug/l	SW846 8260B
FA67623-17	**MW-17-082819**					
Benzene [b]		9.3	2.5	0.63	ug/l	SW846 8260B
Chloroethane [c]		171	5.0	2.0	ug/l	SW846 8260B
Toluene [b]		0.82 J	2.5	0.63	ug/l	SW846 8260B
m,p-Xylene [b]		1.4 J	5.0	0.63	ug/l	SW846 8260B
FA67623-18	**MW-18-082819**					
Chloroethane [b]		1.0	0.50	0.20	ug/l	SW846 8260B
cis-1,2-Dichloroethylene [b]		0.21 J	0.50	0.13	ug/l	SW846 8260B
1,2,4-Trimethylbenzene [b]		0.15 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride [b]		0.21 J	0.50	0.13	ug/l	SW846 8260B
FA67623-19	**MW-22-082819**					
Benzene		0.52 J	1.3	0.31	ug/l	SW846 8260B
Chloroethane		33.0	1.3	0.50	ug/l	SW846 8260B
1,1-Dichloroethane		0.58 J	1.3	0.31	ug/l	SW846 8260B

Summary of Hits

Job Number: FA67623
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/26/19 thru 08/28/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethylene		92.3	1.3	0.31	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		2.1	1.3	0.31	ug/l	SW846 8260B
Ethylbenzene		0.59 J	1.3	0.31	ug/l	SW846 8260B
Hexane		1.6 J	2.5	0.50	ug/l	SW846 8260B
Isopropylbenzene		2.3	1.3	0.31	ug/l	SW846 8260B
n-Propylbenzene		2.7	1.3	0.31	ug/l	SW846 8260B
Toluene		1.5	1.3	0.31	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		6.6	1.3	0.31	ug/l	SW846 8260B
Vinyl Chloride		32.2	1.3	0.31	ug/l	SW846 8260B
m,p-Xylene		4.3	2.5	0.31	ug/l	SW846 8260B
o-Xylene		0.55 J	1.3	0.31	ug/l	SW846 8260B
FA67623-20	**DUP-02-082819**					
Benzene [b]		9.2	2.5	0.63	ug/l	SW846 8260B
Chloroethane [b]		203	5.0	2.0	ug/l	SW846 8260B
m,p-Xylene [b]		1.3 J	5.0	0.63	ug/l	SW846 8260B
FA67623-21	**TRIP BLANK**					
Acetone		3.1 J	10	2.0	ug/l	SW846 8260B
Toluene		0.15 J	0.50	0.13	ug/l	SW846 8260B

(a) Suspected laboratory contaminant.
(b) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(c) Sample was not preserved to a pH < 2. Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

4

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-19-082619			
Lab Sample ID:	FA67623-1		**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100648.D	1	09/03/19 12:46	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.38	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	1.0	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.19	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	5.3	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-19-082619		
Lab Sample ID:	FA67623-1	**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	1.0	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	0.54	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	0.55	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.22	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.3	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.18	0.50	0.13	ug/l	J
	m,p-Xylene	0.38	1.0	0.13	ug/l	J
95-47-6	o-Xylene	0.32	0.50	0.13	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-03-082619		
Lab Sample ID:	FA67623-2	**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100649.D	1	09/03/19 13:11	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.29	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	1.5	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.36	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.86	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.27	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-03-082619			
Lab Sample ID:	FA67623-2		**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.57	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected　MDL = Method Detection Limit　J = Indicates an estimated value
RL = Reporting Limit　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-07-082619		
Lab Sample ID:	FA67623-3	**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100650.D	1	09/03/19 13:36	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-07-082619		
Lab Sample ID:	FA67623-3	**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	3.1	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	0.28	0.50	0.13	ug/l	J
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-23-082619			
Lab Sample ID:	FA67623-4		**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100651.D	1	09/03/19 14:00	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.22	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-23-082619		
Lab Sample ID:	FA67623-4	**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	7.9	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	0.89	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.13	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10-082619			
Lab Sample ID:	FA67623-5		**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100652.D	1	09/03/19 14:25	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10-082619		
Lab Sample ID:	FA67623-5	**Date Sampled:**	08/26/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-08-082719		
Lab Sample ID:	FA67623-6	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100653.D	1	09/03/19 14:50	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	1.3	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.9	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.34	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-08-082719			
Lab Sample ID:	FA67623-6		**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.29	0.50	0.13	ug/l	J
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	14.5	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.37	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-09-082719		
Lab Sample ID:	FA67623-7	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100654.D	1	09/03/19 15:14	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.56	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.43	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	0.28	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-09-082719		
Lab Sample ID:	FA67623-7	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.46	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-05-082719		
Lab Sample ID:	FA67623-8	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100655.D	5	09/03/19 15:38	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/l	
71-43-2	Benzene	ND	2.5	0.63	ug/l	
108-86-1	Bromobenzene	ND	2.5	0.63	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.63	ug/l	
75-25-2	Bromoform	ND	2.5	0.63	ug/l	
104-51-8	n-Butylbenzene	ND	2.5	0.63	ug/l	
135-98-8	sec-Butylbenzene	ND	2.5	0.63	ug/l	
98-06-6	tert-Butylbenzene	ND	2.5	0.63	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.63	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.63	ug/l	
75-00-3	Chloroethane	ND	2.5	1.0	ug/l	
67-66-3	Chloroform	ND	2.5	0.63	ug/l	
95-49-8	o-Chlorotoluene	ND	2.5	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.5	0.63	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	1.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.5	0.63	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.5	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.63	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.63	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethylene	34.2	2.5	0.63	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.63	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	0.63	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.5	0.63	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.5	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.63	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-082719		
Lab Sample ID:	FA67623-8	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.5	0.63	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.5	0.63	ug/l	
74-83-9	Methyl Bromide	ND	2.5	1.0	ug/l	
74-87-3	Methyl Chloride	ND	2.5	1.0	ug/l	
74-95-3	Methylene Bromide	ND	2.5	0.63	ug/l	
75-09-2	Methylene Chloride [a]	6.4	10	5.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	6.3	ug/l	
103-65-1	n-Propylbenzene	ND	2.5	0.63	ug/l	
100-42-5	Styrene	ND	2.5	0.63	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
127-18-4	Tetrachloroethylene	118	2.5	0.63	ug/l	
108-88-3	Toluene	ND	2.5	0.63	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.63	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.63	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.63	ug/l	
79-01-6	Trichloroethylene	37.9	2.5	0.63	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.5	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.63	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.63	ug/l	
75-01-4	Vinyl Chloride	ND	2.5	0.63	ug/l	
	m,p-Xylene	ND	5.0	0.63	ug/l	
95-47-6	o-Xylene	ND	2.5	0.63	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-12-082719		
Lab Sample ID:	FA67623-9	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100656.D	10	09/03/19 16:03	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	20	ug/l	
71-43-2	Benzene	ND	5.0	1.3	ug/l	
108-86-1	Bromobenzene	ND	5.0	1.3	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.3	ug/l	
75-25-2	Bromoform	ND	5.0	1.3	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	1.3	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	1.3	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	1.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.3	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.3	ug/l	
75-00-3	Chloroethane	ND	5.0	2.0	ug/l	
67-66-3	Chloroform	ND	5.0	1.3	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	1.3	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.5	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.3	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.3	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	252	5.0	1.3	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.3	5.0	1.3	ug/l	J
78-87-5	1,2-Dichloropropane	ND	5.0	1.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.3	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12-082719		
Lab Sample ID:	FA67623-9	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	1.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	1.3	ug/l	
74-83-9	Methyl Bromide	ND	5.0	2.0	ug/l	
74-87-3	Methyl Chloride	ND	5.0	2.0	ug/l	
74-95-3	Methylene Bromide	ND	5.0	1.3	ug/l	
75-09-2	Methylene Chloride [a]	13.6	20	10	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	13	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	1.3	ug/l	
100-42-5	Styrene	ND	5.0	1.3	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.3	ug/l	
127-18-4	Tetrachloroethylene	29.0	5.0	1.3	ug/l	
108-88-3	Toluene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.3	ug/l	
79-01-6	Trichloroethylene	10.1	5.0	1.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.3	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.3	ug/l	
75-01-4	Vinyl Chloride	10	5.0	1.3	ug/l	
	m,p-Xylene	ND	10	1.3	ug/l	
95-47-6	o-Xylene	ND	5.0	1.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Suspected laboratory contaminant.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-04-082719		
Lab Sample ID:	FA67623-10	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100647.D	1	09/03/19 12:22	AB	n/a	n/a	VE2197
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	2.4	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	0.33	0.50	0.13	ug/l	J
135-98-8	sec-Butylbenzene	1.2	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	0.18	0.50	0.13	ug/l	J
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	30.0	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.29	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.78	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	0.25	0.50	0.13	ug/l	J

ND = Not detected　MDL = Method Detection Limit　J = Indicates an estimated value
RL = Reporting Limit　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-04-082719		
Lab Sample ID:	FA67623-10	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	0.64	1.0	0.20	ug/l	J
98-82-8	Isopropylbenzene	22.4	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	17.0	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.26	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.47	0.50	0.13	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	0.37	1.0	0.13	ug/l	J
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-01-082719		
Lab Sample ID:	FA67623-11	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100657.D	1	09/03/19 16:27	AB	n/a	n/a	VE2197
Run #2	E100672.D	5	09/05/19 12:03	AB	n/a	n/a	VE2198

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.19	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	0.30	0.50	0.13	ug/l	J
135-98-8	sec-Butylbenzene	0.46	0.50	0.13	ug/l	J
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	52.7 [a]	2.5	1.0	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	46.7	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.0	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.39	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	0.31	0.50	0.13	ug/l	J

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-01-082719			
Lab Sample ID:	FA67623-11		**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	7.2	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	0.25	0.50	0.13	ug/l	J
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	1.7	2.0	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	8.2	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	0.45	0.50	0.13	ug/l	J
108-88-3	Toluene	0.27	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	0.71	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	2.5	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	4.4	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.79	0.50	0.13	ug/l	
	m,p-Xylene	0.54	1.0	0.13	ug/l	J
95-47-6	o-Xylene	4.3	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	79-125%
2037-26-5	Toluene-D8	95%	95%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	83-118%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20-082819		
Lab Sample ID:	FA67623-12	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100658.D	1	09/03/19 16:52	AB	n/a	n/a	VE2197
Run #2 [a]	E100673.D	10	09/05/19 12:28	AB	n/a	n/a	VE2198

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	14.5	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	234 [b]	5.0	2.0	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.14	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20-082819		
Lab Sample ID:	FA67623-12	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	1.1	2.0	1.0	ug/l	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.51	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.17	0.50	0.13	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	0.87	1.0	0.13	ug/l	J
95-47-6	o-Xylene	0.82	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	109%	79-125%
2037-26-5	Toluene-D8	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	102%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27-082819			
Lab Sample ID:	FA67623-13		**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100671.D	1	09/05/19 11:39	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.20	0.50	0.13	ug/l	J
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.42	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.24	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-27-082819		
Lab Sample ID:	FA67623-13	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.30	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-28-082819			
Lab Sample ID:	FA67623-14		**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100674.D	1	09/05/19 12:52	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-28-082819		
Lab Sample ID:	FA67623-14	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-14-082819		
Lab Sample ID:	FA67623-15	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100675.D	1	09/05/19 13:17	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	0.33	0.50	0.20	ug/l	J
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-14-082819		
Lab Sample ID:	FA67623-15	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13-082819		
Lab Sample ID:	FA67623-16	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E100697.D	1	09/06/19 10:46	AB	n/a	n/a	VE2199
Run #2 [a]	E100676.D	2.5	09/05/19 13:41	AB	n/a	n/a	VE2198

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.52	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	0.31	0.50	0.13	ug/l	J
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	33.7 [b]	1.3	0.50	ug/l	
67-66-3	Chloroform	0.24	0.50	0.13	ug/l	J
95-49-8	o-Chlorotoluene	0.68	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.26	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	0.20	0.50	0.13	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.83	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.0	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	4.3	0.50	0.13	ug/l	

ND = Not detected　　MDL = Method Detection Limit　　J = Indicates an estimated value
RL = Reporting Limit　　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　　N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-13-082819		
Lab Sample ID:	FA67623-16	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	2.1	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	7.6	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	13.3	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.82	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	44.7	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	5.7	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.59	0.50	0.13	ug/l	
	m,p-Xylene	73.5	1.0	0.13	ug/l	
95-47-6	o-Xylene	0.41	0.50	0.13	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	111%	79-125%
2037-26-5	Toluene-D8	98%	95%	85-112%
460-00-4	4-Bromofluorobenzene	104%	98%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-17-082819			
Lab Sample ID:	FA67623-17		**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E100699.D	5	09/06/19 11:34	AB	n/a	n/a	VE2199
Run #2 [b]	E100677.D	10	09/05/19 14:05	AB	n/a	n/a	VE2198

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/l	
71-43-2	Benzene	9.3	2.5	0.63	ug/l	
108-86-1	Bromobenzene	ND	2.5	0.63	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.63	ug/l	
75-25-2	Bromoform	ND	2.5	0.63	ug/l	
104-51-8	n-Butylbenzene	ND	2.5	0.63	ug/l	
135-98-8	sec-Butylbenzene	ND	2.5	0.63	ug/l	
98-06-6	tert-Butylbenzene	ND	2.5	0.63	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.63	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.63	ug/l	
75-00-3	Chloroethane	171 [c]	5.0	2.0	ug/l	
67-66-3	Chloroform	ND	2.5	0.63	ug/l	
95-49-8	o-Chlorotoluene	ND	2.5	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.5	0.63	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	1.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.5	0.63	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.5	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.63	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.63	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	0.63	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.63	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	0.63	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.5	0.63	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.5	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.63	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-17-082819			
Lab Sample ID:	FA67623-17		**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.5	0.63	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.5	0.63	ug/l	
74-83-9	Methyl Bromide	ND	2.5	1.0	ug/l	
74-87-3	Methyl Chloride	ND	2.5	1.0	ug/l	
74-95-3	Methylene Bromide	ND	2.5	0.63	ug/l	
75-09-2	Methylene Chloride	ND	10	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	6.3	ug/l	
103-65-1	n-Propylbenzene	ND	2.5	0.63	ug/l	
100-42-5	Styrene	ND	2.5	0.63	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
127-18-4	Tetrachloroethylene	ND	2.5	0.63	ug/l	
108-88-3	Toluene	0.82	2.5	0.63	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.63	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.63	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.63	ug/l	
79-01-6	Trichloroethylene	ND	2.5	0.63	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.5	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.63	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.63	ug/l	
75-01-4	Vinyl Chloride	ND	2.5	0.63	ug/l	
	m,p-Xylene	1.4	5.0	0.63	ug/l	J
95-47-6	o-Xylene	ND	2.5	0.63	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	106%	79-125%
2037-26-5	Toluene-D8	97%	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	104%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Sample was not preserved to a pH < 2. Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-18-082819			
Lab Sample ID:	FA67623-18		**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E100682.D	1	09/05/19 16:06	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	1.0	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.21	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-18-082819		
Lab Sample ID:	FA67623-18	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.15	0.50	0.13	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.21	0.50	0.13	ug/l	J
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-22-082819		
Lab Sample ID:	FA67623-19	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100683.D	2.5	09/05/19 16:31	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	0.52	1.3	0.31	ug/l	J
108-86-1	Bromobenzene	ND	1.3	0.31	ug/l	
75-27-4	Bromodichloromethane	ND	1.3	0.31	ug/l	
75-25-2	Bromoform	ND	1.3	0.31	ug/l	
104-51-8	n-Butylbenzene	ND	1.3	0.31	ug/l	
135-98-8	sec-Butylbenzene	ND	1.3	0.31	ug/l	
98-06-6	tert-Butylbenzene	ND	1.3	0.31	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.3	0.31	ug/l	
108-90-7	Chlorobenzene	ND	1.3	0.31	ug/l	
75-00-3	Chloroethane	33.0	1.3	0.50	ug/l	
67-66-3	Chloroform	ND	1.3	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.3	0.31	ug/l	
106-43-4	p-Chlorotoluene	ND	1.3	0.31	ug/l	
124-48-1	Dibromochloromethane	ND	1.3	0.31	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	0.62	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.3	0.31	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.3	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.31	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.31	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.31	ug/l	
75-34-3	1,1-Dichloroethane	0.58	1.3	0.31	ug/l	J
107-06-2	1,2-Dichloroethane	ND	1.3	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.3	0.31	ug/l	
156-59-2	cis-1,2-Dichloroethylene	92.3	1.3	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.1	1.3	0.31	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.3	0.31	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.3	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.3	0.31	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.31	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.31	ug/l	
100-41-4	Ethylbenzene	0.59	1.3	0.31	ug/l	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22-082819		
Lab Sample ID:	FA67623-19	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	1.6	2.5	0.50	ug/l	J
98-82-8	Isopropylbenzene	2.3	1.3	0.31	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.3	0.31	ug/l	
74-83-9	Methyl Bromide	ND	1.3	0.50	ug/l	
74-87-3	Methyl Chloride	ND	1.3	0.50	ug/l	
74-95-3	Methylene Bromide	ND	1.3	0.31	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	6.3	3.1	ug/l	
103-65-1	n-Propylbenzene	2.7	1.3	0.31	ug/l	
100-42-5	Styrene	ND	1.3	0.31	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.3	0.31	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	0.31	ug/l	
127-18-4	Tetrachloroethylene	ND	1.3	0.31	ug/l	
108-88-3	Toluene	1.5	1.3	0.31	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	0.31	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.3	0.31	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.3	0.31	ug/l	
79-01-6	Trichloroethylene	ND	1.3	0.31	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.3	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.3	0.31	ug/l	
95-63-6	1,2,4-Trimethylbenzene	6.6	1.3	0.31	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.3	0.31	ug/l	
75-01-4	Vinyl Chloride	32.2	1.3	0.31	ug/l	
	m,p-Xylene	4.3	2.5	0.31	ug/l	
95-47-6	o-Xylene	0.55	1.3	0.31	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-02-082819			
Lab Sample ID:	FA67623-20		**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water		**Date Received:**	08/29/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E100684.D	5	09/05/19 16:55	AB	n/a	n/a	VE2198
Run #2 [a]	E100700.D	10	09/06/19 11:59	AB	n/a	n/a	VE2199

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/l	
71-43-2	Benzene	9.2	2.5	0.63	ug/l	
108-86-1	Bromobenzene	ND	2.5	0.63	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.63	ug/l	
75-25-2	Bromoform	ND	2.5	0.63	ug/l	
104-51-8	n-Butylbenzene	ND	2.5	0.63	ug/l	
135-98-8	sec-Butylbenzene	ND	2.5	0.63	ug/l	
98-06-6	tert-Butylbenzene	ND	2.5	0.63	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.63	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.63	ug/l	
75-00-3	Chloroethane	203 [b]	5.0	2.0	ug/l	
67-66-3	Chloroform	ND	2.5	0.63	ug/l	
95-49-8	o-Chlorotoluene	ND	2.5	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.5	0.63	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	1.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.5	0.63	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.5	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.63	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.63	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	0.63	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.63	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	0.63	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.5	0.63	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.5	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.63	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-02-082819		
Lab Sample ID:	FA67623-20	**Date Sampled:**	08/28/19
Matrix:	AQ - Ground Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.5	0.63	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.5	0.63	ug/l	
74-83-9	Methyl Bromide	ND	2.5	1.0	ug/l	
74-87-3	Methyl Chloride	ND	2.5	1.0	ug/l	
74-95-3	Methylene Bromide	ND	2.5	0.63	ug/l	
75-09-2	Methylene Chloride	ND	10	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	6.3	ug/l	
103-65-1	n-Propylbenzene	ND	2.5	0.63	ug/l	
100-42-5	Styrene	ND	2.5	0.63	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
127-18-4	Tetrachloroethylene	ND	2.5	0.63	ug/l	
108-88-3	Toluene	ND	2.5	0.63	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.63	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.63	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.63	ug/l	
79-01-6	Trichloroethylene	ND	2.5	0.63	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.5	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.63	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.63	ug/l	
75-01-4	Vinyl Chloride	ND	2.5	0.63	ug/l	
	m,p-Xylene	1.3	5.0	0.63	ug/l	J
95-47-6	o-Xylene	ND	2.5	0.63	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	105%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	109%	79-125%
2037-26-5	Toluene-D8	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	102%	102%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA67623-21	**Date Sampled:**	08/26/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100668.D	1	09/05/19 10:26	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.1	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA67623-21	**Date Sampled:**	08/26/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/29/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.15	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB #: FA67623 PAGE 1 OF 2

SGS - ORLANDO Quote #	SKIFF #

Client / Reporting Information

Company Name: ERM
Address: 1218 3rd Ave. St. 1412
City: Seattle State: WA Zip: 98101
Project Contact: Dylan Stankus Email: Dylanstankus@erm.com
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: AL Sampler 2:

Project Information

Project Name: Kent 212
Street: 820 S. 212th St
City: Kent State: WA
Project #: 0487043
Fax #:
Client Purchase Order #:

Analytical Information

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC's - 8260	MS/MSD	LAB USE ONLY
1	MW-19-082619	08/26	1101	AL	W	3			X							X		
2	MW-03-082619		1218	AL	W	3			X							X		
3	MW-07-082619		1335	AL	W	3			X							X		
4	MW-23-082619		1455	AL	W	2			X							X		
5	MW-10-082619		1602	AL	W	3			X							X		
6	MW-08-082719	8/27	0904	AL	W	3			X							X		
7	MW-09-082719		1009	AL	W	3			X							X		
8	MW-05-082719		1121	AL	W	3			X							X		
9	MW-12-082719		1224	AL	W	3			X							X		
10	MW-04-082719		1344	AL	W	9			X							X	X	
11	MW-01-082719		1535	AL	W	3			X							X		
12	DUP-01-082719		1535	AL	W	3			X							X		

Turnaround Time (Business days)

- 10 Day (Business) ✓
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alison Lunde/ERM	08/28 1700	2 FX	3 FX	8/29/19	4 [illegible]
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 2.6

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

5.1

5

FA67623: Chain of Custody
Page 1 of 3

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB #: FA67623 PAGE 2 OF 3

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: ERM
Address: 1218 3rd Ave. St. 1412
City: Seattle State: WA Zip: 98101
Project Contact: Dylan Stankus Email: dylan.stankus@erm.com
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: AL Sampler 2:

Project Information

Project Name: Kent 212
Street: 8201 S. 212th St
City: Kent State: WA
Project #: 0487093
Fax #
Client Purchase Order #

Analytical Information: VOC's - 8260

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC's - 8260	LAB USE ONLY
12 ~~15~~	MW-20-082819	08/28	0811	AL	W	3			X							X	
13 ~~14~~	MW-27-082819		0858	AL	W	3			X							X	
14 ~~15~~	MW-28-082819		1000	AL	W	3			X							X	
15 ~~16~~	MW-14-082819		1112	AL	W	3			X							X	
16 ~~17~~	MW-13-082819		1225	AL	W	3			X							X	
17 ~~18~~	MW-17-082819		1317	AL	W	3			X							X	
18 ~~19~~	MW-18-082819		1450	AL	W	3			X							X	
19 ~~20~~	MW-22-082819		1542	AL	W	3			X							X	
20 ~~21~~	DUP-02-082819		1620	AL	W	3			X							X	
~~22~~																	
~~23~~																	AL

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alison Lowe / ERM	08/28 1700	2 FX	3 FX	8/29/19	4
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FA67623: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: FA67623 **Client:** ERM/Univar **Project:** UNIVAR - KENT 212

Date / Time Received: 8/29/2019 9:00:00 AM **Delivery Method:** FedEx **Airbill #'s:** 790979323900

Therm ID: IR 1; **Therm CF:** 1; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information	Y	N
1. Custody Seals Present	✓	
2. Custody Seals Intact	✓	
3. Temp criteria achieved	✓	
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	✓		
2. Trip Blank listed on COC		✓	

	W	S	N/A
3. Type Of TB Received	✓		

Sample Information	Y	N	N/A
1. Sample labels present on bottles	✓		
2. Samples preserved properly	✓		
3. Sufficient volume/containers recvd for analysis:	✓		
4. Condition of sample	Intact		
5. Sample recvd within HT	✓		
6. Dates/Times/IDs on COC match Sample Label	✓		
7. VOCs have headspace		✓	
8. Bottles received for unspecified tests		✓	
9. Compositing instructions clear			✓
10. Voa Soil Kits/Jars received past 48hrs?			✓
11. % Solids Jar received?			✓
12. Residual Chlorine Present?			✓

Misc. Information

Number of Encores: 25-Gram ______ 5-Gram ______ Number of 5035 Field Kits: ______ Number of Lab Filtered Metals: ______

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) ______ ______

Residual Chlorine Test Strip Lot #: ______

Comments Sample not received: DUP-01-082719
Trip Blank received but not listed on the COC for Analysis!!

SM001
Rev. Date 05/24/17

Technician: TRINITYM Date: 8/29/2019 9:00:00 AM Reviewer: PH Date: 8/30/2019

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2197-MB	E100646.D	1	09/03/19	AB	n/a	n/a	VE2197

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-1, FA67623-2, FA67623-3, FA67623-4, FA67623-5, FA67623-6, FA67623-7, FA67623-8, FA67623-9, FA67623-10, FA67623-11, FA67623-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2197-MB	E100646.D	1	09/03/19	AB	n/a	n/a	VE2197

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-1, FA67623-2, FA67623-3, FA67623-4, FA67623-5, FA67623-6, FA67623-7, FA67623-8, FA67623-9, FA67623-10, FA67623-11, FA67623-12

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-MB	E100667.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-11, FA67623-12, FA67623-13, FA67623-14, FA67623-15, FA67623-16, FA67623-17, FA67623-18, FA67623-19, FA67623-20, FA67623-21

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-MB	E100667.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-11, FA67623-12, FA67623-13, FA67623-14, FA67623-15, FA67623-16, FA67623-17, FA67623-18, FA67623-19, FA67623-20, FA67623-21

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-MB	E100696.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-16, FA67623-17, FA67623-20

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-MB	E100696.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-16, FA67623-17, FA67623-20

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Blank Spike Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2197-BS	E100644.D	1	09/03/19	AB	n/a	n/a	VE2197

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-1, FA67623-2, FA67623-3, FA67623-4, FA67623-5, FA67623-6, FA67623-7, FA67623-8, FA67623-9, FA67623-10, FA67623-11, FA67623-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	53.7	107	50-147
71-43-2	Benzene	10	9.9	99	81-122
108-86-1	Bromobenzene	10	9.8	98	80-121
75-27-4	Bromodichloromethane	10	10.1	101	79-123
75-25-2	Bromoform	10	9.3	93	66-123
104-51-8	n-Butylbenzene	10	10.6	106	79-126
135-98-8	sec-Butylbenzene	10	10.4	104	83-133
98-06-6	tert-Butylbenzene	10	9.3	93	80-133
56-23-5	Carbon Tetrachloride	10	11.1	111	76-136
108-90-7	Chlorobenzene	10	9.6	96	82-124
75-00-3	Chloroethane	10	9.9	99	62-144
67-66-3	Chloroform	10	10.2	102	80-124
95-49-8	o-Chlorotoluene	10	10.1	101	81-127
106-43-4	p-Chlorotoluene	10	10.1	101	83-130
124-48-1	Dibromochloromethane	10	10.1	101	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.3	93	64-123
106-93-4	1,2-Dibromoethane	10	9.8	98	75-120
75-71-8	Dichlorodifluoromethane	10	9.7	97	42-167
95-50-1	1,2-Dichlorobenzene	10	9.5	95	82-124
541-73-1	1,3-Dichlorobenzene	10	10	100	84-125
106-46-7	1,4-Dichlorobenzene	10	9.5	95	78-120
75-34-3	1,1-Dichloroethane	10	10.6	106	81-122
107-06-2	1,2-Dichloroethane	10	10.0	100	75-125
75-35-4	1,1-Dichloroethylene	10	11.0	110	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.9	99	78-120
156-60-5	trans-1,2-Dichloroethylene	10	10.3	103	76-127
78-87-5	1,2-Dichloropropane	10	9.9	99	76-124
142-28-9	1,3-Dichloropropane	10	9.5	95	80-118
594-20-7	2,2-Dichloropropane	10	10.5	105	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.0	90	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.6	96	80-120
100-41-4	Ethylbenzene	10	10.1	101	81-121
110-54-3	Hexane	10	11.0	110	69-132
98-82-8	Isopropylbenzene	10	10.6	106	83-132
99-87-6	p-Isopropyltoluene	10	10.4	104	79-130
74-83-9	Methyl Bromide	10	10.7	107	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2197-BS	E100644.D	1	09/03/19	AB	n/a	n/a	VE2197

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-1, FA67623-2, FA67623-3, FA67623-4, FA67623-5, FA67623-6, FA67623-7, FA67623-8, FA67623-9, FA67623-10, FA67623-11, FA67623-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.9	119	50-159
74-95-3	Methylene Bromide	10	9.8	98	78-119
75-09-2	Methylene Chloride	10	10.8	108	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.6	101	66-122
103-65-1	n-Propylbenzene	10	10.3	103	82-133
100-42-5	Styrene	10	9.8	98	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	10.0	100	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	10.5	105	72-120
127-18-4	Tetrachloroethylene	10	10.1	101	76-135
108-88-3	Toluene	10	9.8	98	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93	73-129
71-55-6	1,1,1-Trichloroethane	10	10.3	103	75-130
79-00-5	1,1,2-Trichloroethane	10	10.1	101	76-119
79-01-6	Trichloroethylene	10	9.6	96	81-126
75-69-4	Trichlorofluoromethane	10	12.0	120	71-156
96-18-4	1,2,3-Trichloropropane	10	9.5	95	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	79-120
75-01-4	Vinyl Chloride	10	10.6	106	69-159
	m,p-Xylene	20	20.3	102	79-126
95-47-6	o-Xylene	10	9.8	98	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	106%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-BS	E100665.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-11, FA67623-12, FA67623-13, FA67623-14, FA67623-15, FA67623-16, FA67623-17, FA67623-18, FA67623-19, FA67623-20, FA67623-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.3	109	50-147
71-43-2	Benzene	10	9.8	98	81-122
108-86-1	Bromobenzene	10	10	100	80-121
75-27-4	Bromodichloromethane	10	10.1	101	79-123
75-25-2	Bromoform	10	9.0	90	66-123
104-51-8	n-Butylbenzene	10	10.5	105	79-126
135-98-8	sec-Butylbenzene	10	10.5	105	83-133
98-06-6	tert-Butylbenzene	10	9.4	94	80-133
56-23-5	Carbon Tetrachloride	10	10.8	108	76-136
108-90-7	Chlorobenzene	10	9.7	97	82-124
75-00-3	Chloroethane	10	9.3	93	62-144
67-66-3	Chloroform	10	9.8	98	80-124
95-49-8	o-Chlorotoluene	10	10	100	81-127
106-43-4	p-Chlorotoluene	10	10.1	101	83-130
124-48-1	Dibromochloromethane	10	10.1	101	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.1	91	64-123
106-93-4	1,2-Dibromoethane	10	9.9	99	75-120
75-71-8	Dichlorodifluoromethane	10	9.7	97	42-167
95-50-1	1,2-Dichlorobenzene	10	9.5	95	82-124
541-73-1	1,3-Dichlorobenzene	10	9.9	99	84-125
106-46-7	1,4-Dichlorobenzene	10	9.5	95	78-120
75-34-3	1,1-Dichloroethane	10	10.3	103	81-122
107-06-2	1,2-Dichloroethane	10	10	100	75-125
75-35-4	1,1-Dichloroethylene	10	10.7	107	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.6	96	78-120
156-60-5	trans-1,2-Dichloroethylene	10	10.0	100	76-127
78-87-5	1,2-Dichloropropane	10	10.1	101	76-124
142-28-9	1,3-Dichloropropane	10	9.6	96	80-118
594-20-7	2,2-Dichloropropane	10	10.5	105	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.3	93	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	80-120
100-41-4	Ethylbenzene	10	9.9	99	81-121
110-54-3	Hexane	10	10.8	108	69-132
98-82-8	Isopropylbenzene	10	10.3	103	83-132
99-87-6	p-Isopropyltoluene	10	10.3	103	79-130
74-83-9	Methyl Bromide	10	10.7	107	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-BS	E100665.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-11, FA67623-12, FA67623-13, FA67623-14, FA67623-15, FA67623-16, FA67623-17, FA67623-18, FA67623-19, FA67623-20, FA67623-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.9	119	50-159
74-95-3	Methylene Bromide	10	9.9	99	78-119
75-09-2	Methylene Chloride	10	10.1	101	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.9	102	66-122
103-65-1	n-Propylbenzene	10	10.3	103	82-133
100-42-5	Styrene	10	9.7	97	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.7	97	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	10.3	103	72-120
127-18-4	Tetrachloroethylene	10	10.1	101	76-135
108-88-3	Toluene	10	9.7	97	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	73-129
71-55-6	1,1,1-Trichloroethane	10	10.1	101	75-130
79-00-5	1,1,2-Trichloroethane	10	9.8	98	76-119
79-01-6	Trichloroethylene	10	9.4	94	81-126
75-69-4	Trichlorofluoromethane	10	12.2	122	71-156
96-18-4	1,2,3-Trichloropropane	10	9.4	94	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.2	102	79-120
75-01-4	Vinyl Chloride	10	10.6	106	69-159
	m,p-Xylene	20	20.0	100	79-126
95-47-6	o-Xylene	10	9.5	95	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-BS	E100694.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-16, FA67623-17, FA67623-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	55.1	110	50-147
71-43-2	Benzene	10	9.8	98	81-122
108-86-1	Bromobenzene	10	10	100	80-121
75-27-4	Bromodichloromethane	10	10.3	103	79-123
75-25-2	Bromoform	10	9.0	90	66-123
104-51-8	n-Butylbenzene	10	10.5	105	79-126
135-98-8	sec-Butylbenzene	10	10.5	105	83-133
98-06-6	tert-Butylbenzene	10	9.6	96	80-133
56-23-5	Carbon Tetrachloride	10	10.7	107	76-136
108-90-7	Chlorobenzene	10	9.6	96	82-124
75-00-3	Chloroethane	10	9.1	91	62-144
67-66-3	Chloroform	10	9.8	98	80-124
95-49-8	o-Chlorotoluene	10	10.1	101	81-127
106-43-4	p-Chlorotoluene	10	10.3	103	83-130
124-48-1	Dibromochloromethane	10	10.1	101	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.3	93	64-123
106-93-4	1,2-Dibromoethane	10	10	100	75-120
75-71-8	Dichlorodifluoromethane	10	9.1	91	42-167
95-50-1	1,2-Dichlorobenzene	10	9.4	94	82-124
541-73-1	1,3-Dichlorobenzene	10	10	100	84-125
106-46-7	1,4-Dichlorobenzene	10	9.6	96	78-120
75-34-3	1,1-Dichloroethane	10	10.3	103	81-122
107-06-2	1,2-Dichloroethane	10	10.3	103	75-125
75-35-4	1,1-Dichloroethylene	10	10.7	107	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	10	9.8	98	76-127
78-87-5	1,2-Dichloropropane	10	10.1	101	76-124
142-28-9	1,3-Dichloropropane	10	9.7	97	80-118
594-20-7	2,2-Dichloropropane	10	9.7	97	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.4	94	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	80-120
100-41-4	Ethylbenzene	10	9.8	98	81-121
110-54-3	Hexane	10	10.5	105	69-132
98-82-8	Isopropylbenzene	10	9.9	99	83-132
99-87-6	p-Isopropyltoluene	10	10.2	102	79-130
74-83-9	Methyl Bromide	10	9.9	99	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-BS	E100694.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-16, FA67623-17, FA67623-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.8	118	50-159
74-95-3	Methylene Bromide	10	10.1	101	78-119
75-09-2	Methylene Chloride	10	10.4	104	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.6	101	66-122
103-65-1	n-Propylbenzene	10	10.4	104	82-133
100-42-5	Styrene	10	9.4	94	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.6	96	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	10.8	108	72-120
127-18-4	Tetrachloroethylene	10	10.0	100	76-135
108-88-3	Toluene	10	9.7	97	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	73-129
71-55-6	1,1,1-Trichloroethane	10	9.7	97	75-130
79-00-5	1,1,2-Trichloroethane	10	10.3	103	76-119
79-01-6	Trichloroethylene	10	9.6	96	81-126
75-69-4	Trichlorofluoromethane	10	11.8	118	71-156
96-18-4	1,2,3-Trichloropropane	10	10.0	100	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	79-120
75-01-4	Vinyl Chloride	10	10.1	101	69-159
	m,p-Xylene	20	19.7	99	79-126
95-47-6	o-Xylene	10	9.3	93	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-10MS	E100659.D	1	09/03/19	AB	n/a	n/a	VE2197
FA67623-10MSD	E100660.D	1	09/03/19	AB	n/a	n/a	VE2197
FA67623-10	E100647.D	1	09/03/19	AB	n/a	n/a	VE2197

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-1, FA67623-2, FA67623-3, FA67623-4, FA67623-5, FA67623-6, FA67623-7, FA67623-8, FA67623-9, FA67623-10, FA67623-11, FA67623-12

CAS No.	Compound	FA67623-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	50.7	101	50	51.3	103	1	50-147/21
71-43-2	Benzene	2.4		10	11.9	95	10	12.0	96	1	81-122/14
108-86-1	Bromobenzene	ND		10	9.4	94	10	9.2	92	2	80-121/14
75-27-4	Bromodichloromethane	ND		10	9.1	91	10	9.1	91	0	79-123/19
75-25-2	Bromoform	ND		10	6.7	67	10	6.9	69	3	66-123/21
104-51-8	n-Butylbenzene	0.33	J	10	10.8	105	10	10.8	105	0	79-126/16
135-98-8	sec-Butylbenzene	1.2		10	11.7	105	10	11.9	107	2	83-133/16
98-06-6	tert-Butylbenzene	0.18	J	10	9.4	92	10	9.5	93	1	80-133/16
56-23-5	Carbon Tetrachloride	ND		10	9.8	98	10	10.1	101	3	76-136/23
108-90-7	Chlorobenzene	ND		10	9.3	93	10	9.3	93	0	82-124/14
75-00-3	Chloroethane	30.0		10	33.9	39* [a]	10	45.9	159* [a]	30*	62-144/20
67-66-3	Chloroform	ND		10	9.9	99	10	10.0	100	1	80-124/15
95-49-8	o-Chlorotoluene	ND		10	9.6	96	10	9.6	96	0	81-127/15
106-43-4	p-Chlorotoluene	ND		10	9.4	94	10	9.3	93	1	83-130/15
124-48-1	Dibromochloromethane	ND		10	8.4	84	10	8.3	83	1	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		10	9.9	99	10	10.2	102	3	64-123/18
106-93-4	1,2-Dibromoethane	ND		10	9.0	90	10	9.0	90	0	75-120/13
75-71-8	Dichlorodifluoromethane	ND		10	9.1	91	10	9.8	98	7	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		10	9.4	94	10	9.3	93	1	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		10	9.5	95	10	9.5	95	0	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		10	9.1	91	10	9.2	92	1	78-120/15
75-34-3	1,1-Dichloroethane	0.29	J	10	10.4	101	10	10.7	104	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		10	9.7	97	10	9.7	97	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		10	10.7	107	10	10.9	109	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		10	9.3	93	10	9.6	96	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.78		10	10.4	96	10	10.8	100	4	76-127/17
78-87-5	1,2-Dichloropropane	ND		10	9.4	94	10	9.4	94	0	76-124/14
142-28-9	1,3-Dichloropropane	ND		10	8.9	89	10	8.9	89	0	80-118/13
594-20-7	2,2-Dichloropropane	ND		10	9.5	95	10	9.7	97	2	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		10	7.2	72*	10	7.1	71*	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		10	8.0	80	10	7.9	79*	1	80-120/22
100-41-4	Ethylbenzene	0.25	J	10	9.9	97	10	10	98	1	81-121/14
110-54-3	Hexane	0.64	J	10	10.4	98	10	10.8	102	4	69-132/20
98-82-8	Isopropylbenzene	22.4		10	33.7	113	10	34.1	117	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		10	9.9	99	10	10.0	100	1	79-130/16
74-83-9	Methyl Bromide	ND		10	9.6	96	10	11.1	111	14	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-10MS	E100659.D	1	09/03/19	AB	n/a	n/a	VE2197
FA67623-10MSD	E100660.D	1	09/03/19	AB	n/a	n/a	VE2197
FA67623-10	E100647.D	1	09/03/19	AB	n/a	n/a	VE2197

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-1, FA67623-2, FA67623-3, FA67623-4, FA67623-5, FA67623-6, FA67623-7, FA67623-8, FA67623-9, FA67623-10, FA67623-11, FA67623-12

CAS No.	Compound	FA67623-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		10	10.0	100	10	11.0	110	10	50-159/19
74-95-3	Methylene Bromide	ND		10	9.5	95	10	9.5	95	0	78-119/14
75-09-2	Methylene Chloride	ND		10	10.1	101	10	10.4	104	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	52.8	106	50	51.9	104	2	66-122/16
103-65-1	n-Propylbenzene	17.0		10	27.2	102	10	27.2	102	0	82-133/15
100-42-5	Styrene	ND		10	7.0	70*	10	7.3	73*	4	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		10	9.6	96	10	9.7	97	1	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	10.1	101	10	10.2	102	1	72-120/14
127-18-4	Tetrachloroethylene	ND		10	9.7	97	10	9.6	96	1	76-135/16
108-88-3	Toluene	0.26	J	10	9.6	93	10	9.6	93	0	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		10	9.4	94	10	9.6	96	2	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		10	9.8	98	10	10.1	101	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		10	10.1	101	10	10	100	1	76-119/14
79-01-6	Trichloroethylene	ND		10	9.3	93	10	9.1	91	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		10	11.8	118	10	12.2	122	3	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		10	9.2	92	10	9.4	94	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	0.47	J	10	9.6	91	10	9.6	91	0	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		10	9.4	94	10	9.5	95	1	79-120/19
75-01-4	Vinyl Chloride	ND		10	10.1	101	10	11.0	110	9	69-159/18
	m,p-Xylene	0.37	J	20	19.5	96	20	19.6	96	1	79-126/15
95-47-6	o-Xylene	ND		10	9.5	95	10	9.6	96	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA67623-10	Limits
1868-53-7	Dibromofluoromethane	103%	105%	106%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	109%	106%	79-125%
2037-26-5	Toluene-D8	99%	98%	96%	85-112%
460-00-4	4-Bromofluorobenzene	100%	100%	103%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-13MS	E100678.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13MSD	E100679.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13	E100671.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-11, FA67623-12, FA67623-13, FA67623-14, FA67623-15, FA67623-16, FA67623-17, FA67623-18, FA67623-19, FA67623-20, FA67623-21

CAS No.	Compound	FA67623-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	232	93	250	231	92	0	50-147/21
71-43-2	Benzene	0.20	J	50	48.8	97	50	47.6	95	2	81-122/14
108-86-1	Bromobenzene	ND		50	48.2	96	50	48.5	97	1	80-121/14
75-27-4	Bromodichloromethane	ND		50	45.9	92	50	45.8	92	0	79-123/19
75-25-2	Bromoform	ND		50	31.5	63*	50	29.3	59*	7	66-123/21
104-51-8	n-Butylbenzene	ND		50	50.9	102	50	50.3	101	1	79-126/16
135-98-8	sec-Butylbenzene	ND		50	51.5	103	50	51.0	102	1	83-133/16
98-06-6	tert-Butylbenzene	ND		50	46.1	92	50	46.3	93	0	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	52.7	105	50	49.7	99	6	76-136/23
108-90-7	Chlorobenzene	ND		50	47.4	95	50	46.9	94	1	82-124/14
75-00-3	Chloroethane	ND		50	45.0	90	50	41.9	84	7	62-144/20
67-66-3	Chloroform	ND		50	49.4	99	50	47.2	94	5	80-124/15
95-49-8	o-Chlorotoluene	ND		50	49.2	98	50	49.5	99	1	81-127/15
106-43-4	p-Chlorotoluene	ND		50	49.4	99	50	49.8	100	1	83-130/15
124-48-1	Dibromochloromethane	ND		50	39.3	79	50	38.8	78	1	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.3	91	50	42.9	86	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	47.6	95	50	47.9	96	1	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	46.4	93	50	46.0	92	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	46.1	92	50	45.3	91	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	48.6	97	50	48.0	96	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	47.4	95	50	46.7	93	1	78-120/15
75-34-3	1,1-Dichloroethane	0.42	J	50	51.4	102	50	49.0	97	5	81-122/15
107-06-2	1,2-Dichloroethane	ND		50	51.0	102	50	49.9	100	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	53.3	107	50	51.2	102	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.24	J	50	46.5	93	50	44.8	89	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		50	48.4	97	50	47.0	94	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	49.1	98	50	49.0	98	0	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	46.2	92	50	47.1	94	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	48.5	97	50	45.4	91	7	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	40.8	82	50	42.1	84	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.0	92	50	46.8	94	2	80-120/22
100-41-4	Ethylbenzene	ND		50	48.4	97	50	47.2	94	3	81-121/14
110-54-3	Hexane	ND		50	51.0	102	50	49.4	99	3	69-132/20
98-82-8	Isopropylbenzene	ND		50	49.1	98	50	48.0	96	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	50.1	100	50	49.5	99	1	79-130/16
74-83-9	Methyl Bromide	ND		50	53.3	107	50	51.1	102	4	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-13MS	E100678.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13MSD	E100679.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13	E100671.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-11, FA67623-12, FA67623-13, FA67623-14, FA67623-15, FA67623-16, FA67623-17, FA67623-18, FA67623-19, FA67623-20, FA67623-21

CAS No.	Compound	FA67623-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		50	58.5	117	50	58.5	117	0	50-159/19
74-95-3	Methylene Bromide	ND		50	49.6	99	50	49.7	99	0	78-119/14
75-09-2	Methylene Chloride	ND		50	53.4	107	50	50.2	100	6	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	246	98	250	248	99	1	66-122/16
103-65-1	n-Propylbenzene	ND		50	50.6	101	50	51.0	102	1	82-133/15
100-42-5	Styrene	ND		50	45.1	90	50	44.4	89	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.0	94	50	45.8	92	3	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.8	108	50	51.6	103	4	72-120/14
127-18-4	Tetrachloroethylene	ND		50	48.8	98	50	48.5	97	1	76-135/16
108-88-3	Toluene	ND		50	47.3	95	50	47.3	95	0	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	42.6	85	50	43.0	86	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	49.7	99	50	47.9	96	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.9	98	50	49.2	98	1	76-119/14
79-01-6	Trichloroethylene	ND		50	47.9	96	50	46.7	93	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	62.6	125	50	60.1	120	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	48.2	96	50	47.8	96	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		50	47.8	96	50	47.7	95	0	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		50	50.4	101	50	49.9	100	1	79-120/19
75-01-4	Vinyl Chloride	0.30	J	50	51.1	102	50	50.9	101	0	69-159/18
	m,p-Xylene	ND		100	96.9	97	100	94.9	95	2	79-126/15
95-47-6	o-Xylene	ND		50	45.4	91	50	44.3	89	2	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA67623-13	Limits
1868-53-7	Dibromofluoromethane	102%	100%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	109%	107%	79-125%
2037-26-5	Toluene-D8	97%	98%	94%	85-112%
460-00-4	4-Bromofluorobenzene	100%	104%	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-16MS	E100704.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16MSD	E100705.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16 [a]	E100697.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-16, FA67623-17, FA67623-20

CAS No.	Compound	FA67623-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	247	99	250	250	100	1	50-147/21
71-43-2	Benzene	0.52		50	48.0	95	50	50.2	99	4	81-122/14
108-86-1	Bromobenzene	ND		50	47.1	94	50	48.6	97	3	80-121/14
75-27-4	Bromodichloromethane	ND		50	44.9	90	50	46.6	93	4	79-123/19
75-25-2	Bromoform	ND		50	30.1	60*	50	31.5	63*	5	66-123/21
104-51-8	n-Butylbenzene	ND		50	50.4	101	50	52.9	106	5	79-126/16
135-98-8	sec-Butylbenzene	0.31	J	50	50.7	101	50	53.0	105	4	83-133/16
98-06-6	tert-Butylbenzene	ND		50	45.4	91	50	47.5	95	5	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	50.3	101	50	53.9	108	7	76-136/23
108-90-7	Chlorobenzene	ND		50	46.0	92	50	48.4	97	5	82-124/14
75-00-3	Chloroethane	ND		50	83.4	167*	50	87.4	175*	5	62-144/20
67-66-3	Chloroform	0.24	J	50	49.0	98	50	51.8	103	6	80-124/15
95-49-8	o-Chlorotoluene	0.68		50	49.3	97	50	51.5	102	4	81-127/15
106-43-4	p-Chlorotoluene	ND		50	48.0	96	50	50.4	101	5	83-130/15
124-48-1	Dibromochloromethane	ND		50	38.5	77*	50	39.9	80	4	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.8	92	50	47.6	95	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	45.6	91	50	47.1	94	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	45.8	92	50	49.9	100	9	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	45.3	91	50	47.8	96	5	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	47.3	95	50	49.3	99	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	45.9	92	50	48.0	96	4	78-120/15
75-34-3	1,1-Dichloroethane	0.26	J	50	50.8	101	50	54.4	108	7	81-122/15
107-06-2	1,2-Dichloroethane	0.20	J	50	50.9	101	50	51.8	103	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	52.6	105	50	56.7	113	8	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.83		50	45.7	90	50	49.5	97	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0		50	49.1	96	50	53.1	104	8	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	48.8	98	50	49.9	100	2	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	45.1	90	50	45.9	92	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	46.0	92	50	49.5	99	7	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	38.7	77	50	38.8	78	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	43.3	87	50	44.3	89	2	80-120/22
100-41-4	Ethylbenzene	4.3		50	50.9	93	50	54.3	100	6	81-121/14
110-54-3	Hexane	2.1		50	52.1	100	50	54.2	104	4	69-132/20
98-82-8	Isopropylbenzene	7.6		50	55.2	95	50	58.6	102	6	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	48.9	98	50	50.9	102	4	79-130/16
74-83-9	Methyl Bromide	ND		50	52.3	105	50	55.7	111	6	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67623
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-16MS	E100704.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16MSD	E100705.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16 [a]	E100697.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67623-16, FA67623-17, FA67623-20

CAS No.	Compound	FA67623-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		50	56.9	114	50	60.9	122	7	50-159/19
74-95-3	Methylene Bromide	ND		50	48.7	97	50	49.9	100	2	78-119/14
75-09-2	Methylene Chloride	ND		50	53.0	106	50	56.0	112	6	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	258	103	250	268	107	4	66-122/16
103-65-1	n-Propylbenzene	13.3		50	59.9	93	50	62.2	98	4	82-133/15
100-42-5	Styrene	ND		50	43.0	86	50	45.2	90	5	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.9	96	50	50.6	101	5	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.2	104	50	53.8	108	3	72-120/14
127-18-4	Tetrachloroethylene	ND		50	47.5	95	50	49.3	99	4	76-135/16
108-88-3	Toluene	0.82		50	46.8	92	50	49.2	97	5	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	41.4	83	50	45.1	90	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	48.6	97	50	51.9	104	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.2	96	50	50.2	100	4	76-119/14
79-01-6	Trichloroethylene	ND		50	46.7	93	50	48.2	96	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	63.1	126	50	65.6	131	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	47.4	95	50	48.1	96	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	44.7		50	82.9	76*	50	86.0	83	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	5.7		50	54.6	98	50	56.7	102	4	79-120/19
75-01-4	Vinyl Chloride	0.59		50	50.7	100	50	55.3	109	9	69-159/18
	m,p-Xylene	73.5		100	153	80	100	161	88	5	79-126/15
95-47-6	o-Xylene	0.41	J	50	44.4	88	50	47.9	95	8	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA67623-16	Limits
1868-53-7	Dibromofluoromethane	104%	105%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	107%	79-125%
2037-26-5	Toluene-D8	97%	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	104%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Univar

ERMORP: Univar; 8201 S 212th St, Kent, WA

0487093

SGS Job Number: FA67699

Sampling Dates: 08/27/19 - 08/30/19

Report to:

ERM
1050 SW 6th Ave Suite 1650
Portland, OR 97204
Dylan.Stankus@erm.com; Alison.Lunde@erm.com

ATTN: Dylan Stankus

Total number of pages in report: **36**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

SGS North America Inc.

Sample Summary

Univar

Job No: FA67699

ERMORP: Univar; 8201 S 212th St, Kent, WA
Project No: 0487093

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
FA67699-1	08/29/19	10:15	AL	08/31/19	AQ	Ground Water	MW-21-082919
FA67699-2	08/29/19	11:17	AL	08/31/19	AQ	Ground Water	MW-16-082919
FA67699-3	08/29/19	13:14	AL	08/31/19	AQ	Ground Water	MW-02-082919
FA67699-4	08/29/19	14:10	AL	08/31/19	AQ	Ground Water	MW-06-082919
FA67699-5	08/27/19	15:35	AL	08/31/19	AQ	Ground Water	DUP-01-082719
FA67699-7	08/30/19	00:00	AL	08/31/19	AQ	Trip Blank Water	TB-083019-02

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Univar **Job No:** FA67699

Site: ERMORP: Univar; 8201 S 212th St, Kent, WA **Report Date:** 9/7/2019 6:17:23 PM

5 Samples and 1 Trip Blank were collected on between 08/27/2019 and 08/30/2019 and were received at SGS North America Inc - Orlando on 08/31/2019 properly preserved, at 2.8 Deg. C and intact. These Samples received an SGS Orlando job number of FA67699. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VE2198

All samples were analyzed within the recommended method holding time.

Sample(s) FA67623-13MS, FA67623-13MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for Bromoform are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform are outside control limits. Probable cause is due to matrix interference.

FA67699-2: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

FA67699-7: Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

Matrix: AQ **Batch ID:** VE2199

All samples were analyzed within the recommended method holding time.

Sample(s) FA67623-16MS, FA67623-16MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) FA67699-1, FA67699-5 have compounds reported from the diluted analysis.

Matrix Spike Recovery(s) for 1,2,4-Trimethylbenzene, Bromoform, Chloroethane, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform, Chloroethane are outside control limits. Probable cause is due to matrix interference.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

____

Jenna Kravitz, Client Services *(Signature on File)*

Laboratory Report Glossary

Client Sample ID: Normally refers to a point of collection – a monitoring well, discharge outfall, treatment facility intake, soil core grid location and depth, or any other identification client assigns to a sample.
Lab Sample ID: Letter prefix identifies one of the SGS laboratories and the rest is a consecutive number of the job (or SDG) received. Number after dash is a sample number and it is unequivocally linked in the LIMS to the Client Sample ID (see above).
Matrix (Matrix Code):

- **AQ- Water Samples**
- **SO- Soil/Solid Samples**
- **LIQ- Non-Water Liquid Samples**
- **OIL- Oil Samples**

Matrix Type:

- **SW for Surface Water**
- **SO for Soil/Sediment**
- **GW for Ground Water**
- **DW for Drinking Water**

All available definitions are found on Chain of Custody form.

Deg. C: Degrees Celsius, measurement of temperature.
Method: Analytical and preparation methods used for the analysis, with the version or revision identified.
Date Sampled: This information is entered from Chain of Custody at the time of login for every sample.
Date Received: When the job was received by one of the SGS Laboratories.
Percent Solids: Applicable only to SO matrix. For other matrices this field defaults to "n/a".
Run #: Provides information how many attempts were made in the analysis of the sample. LIMS can merge information from several attempts and lists all of them, including dilution, confirmation, etc. #1 designation is assigned to the analytical run with majority of analytes reported from it, not necessarily in chronological order.
File ID: Actual instrument data acquisition file that produced the result. Letter prefix identifies the instrument; the rest is a consecutive injection number for that instrument.
DF (Dilution Factor): Most common reasons are either to fit into the range of the calibration or alleviate matrix interference. DF other than 1 are accompanied with a comment at the end of the sample report.
Analyzed: Date of analysis.
By: Field Technician or Analyst uniquely identified by initials.
Prep Date: Date of sample preparation. If hold time is 72 hours or less, time of preparation is also indicated.
Prep Batch: Letter prefix OP followed by a consecutive number. For VOC analysis preparation happens at the time of analysis, therefore analytical batch and preparation batch are the same. Size of prep batch is limited to 20 field samples of similar matrix and the entire batch should be completed within 12-hour time.
Analytical Batch: Letter prefix identifies the instrument and is followed by a consecutive number. Not limited by a number of samples.
Initial Weight or Initial Volume: Raw sample size used for preparation.
Final Volume: Final volume of extract. If different from method-prescribed volume, reasons are reflected in the comments at the end of the report form.
CAS Number: *Chemical Abstracts Service* (CAS), a division of the *American Chemical Society*.
Compound: Most commonly used names of chemical compounds.
Result: Depending on project requirements, this field could be set up as text, such as ND (for Non-Detected) or a number. The number may be reported with a qualifier.
MDL (Method Detection Limit): This value is defined as 99% probability that analyte above this concentration is positively (qualitatively) identified.
RL (Reporting Limit): This value is supported by the low calibration standard and defines lowest point of quantitative identification of analyte.
DL (Detection Limit): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type I error) is 1%.
LOD (Limit of Detection): The smallest concentration of a substance that must be present in a sample to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%.

LOQ (Limit of Quantitation): The smallest concentration that produces a quantitative result with known and recorded precision and bias.

Units: ug/l (micrograms per liter) for aqueous samples and ug/kg (micrograms per kilogram) for solids (or ppb – parts per billion). The units could be set according to project or state-specific requirements, such as mg/l (milligrams per liter), or mg/kg (milligrams per kilogram).
Qualifiers (Q): Definitions of most often used qualifiers are found at the bottom of each result page. Applied depending on the program – state-specific (Florida A.C. 62-160), CLP-like, AFCEE, DOD QSM, etc.
Tentatively Identified Compound (TIC): Used when client requests a search for analytes that are not part of instrument calibration. Unknown peaks are compared with published spectral libraries and best match is reported as TIC.
Surrogate (S1, S2, S3 etc.): are positive controls that are used in most organics methods to ascertain preparation efficiency and matrix effect in individual samples. These chemicals mimic common method constituents but are unlikely to be found in real samples. Recoveries can be reported for every analytical run used in the analysis.
IS (Internal Standard IS1, IS2, IS3, etc): quantitative reference used to adjust for instrument performance fluctuations.
Area (of chromatographic peak): signal intensity directly related to compound concentration.
RT (Retention Time): time required for analyte to traverse the length of analytical column. Used for compound identification.
ICAL (Initial Calibration): Must pass calibration criteria established by method.
ICV (Independent Calibration Verification): Used to verify ICAL preparation and concentration of calibration points.
CCV (Continuing Calibration Verification): Used to assess calibration status of the instrument and must recover within established acceptance criteria.
MB (Method Blank): is a negative batch control. MB is an aliquot of matrix free of analyte of interest (either ASTM Type II water or appropriate solid substance) that is put through all the preparation and possible clean-up steps alongside investigative (field) samples. MB should be free of interferences above a set level.
BS (Blank Spike, Laboratory Fortified Blank - LFB, Laboratory Control Sample - LCS): is a positive control used to determine method accuracy - in clean matrix, i.e. matrix free of analytes of interest.
BSD (Blank Spike Duplicate): Used to assess recovery reproducibility - method precision – per analytical method requirement. %Recovery and Relative Percent Difference (%RPD) are compared with the established acceptance criteria.
MS and/or **MSD (Matrix Spike and Matrix Spike Duplicate):** positive batch controls which indicate matrix effect on the precision and accuracy of the method in given sample matrix. Results are expressed in %Recovery and Relative Percent Difference (%RPD) and compared with the established acceptance criteria.
DUP (Matrix Duplicate): Positive batch control, a way of assessing laboratory's precision; however, the composition of the samples is unknown and may not yield meaningful results.
REC (Recovery in Percent): expresses method accuracy.
RPD (Relative Percent Difference): expresses method precision.
Limits: Recovery limits for surrogates and spikes

Summary of Hits

Job Number: FA67699
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/27/19 thru 08/30/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA67699-1	**MW-21-082919**					
Chloroethane		323	25	10	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		19.7 J	25	6.3	ug/l	SW846 8260B
Ethylbenzene		765	25	6.3	ug/l	SW846 8260B
Isopropylbenzene		43.0	25	6.3	ug/l	SW846 8260B
n-Propylbenzene		66.6	25	6.3	ug/l	SW846 8260B
Toluene		36.5	25	6.3	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		202	25	6.3	ug/l	SW846 8260B
1,3,5-Trimethylbenzene		124	25	6.3	ug/l	SW846 8260B
m,p-Xylene		4480	50	6.3	ug/l	SW846 8260B
o-Xylene		288	25	6.3	ug/l	SW846 8260B
FA67699-2	**MW-16-082919**					
Chloroethane [a]		0.75	0.50	0.20	ug/l	SW846 8260B
1,1-Dichloroethane [a]		0.44 J	0.50	0.13	ug/l	SW846 8260B
Vinyl Chloride [a]		0.62	0.50	0.13	ug/l	SW846 8260B
FA67699-3	**MW-02-082919**					
1,1-Dichloroethane		0.36 J	0.50	0.13	ug/l	SW846 8260B
cis-1,2-Dichloroethylene		0.40 J	0.50	0.13	ug/l	SW846 8260B
FA67699-4	**MW-06-082919**					
1,1-Dichloroethane		0.49 J	0.50	0.13	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		0.16 J	0.50	0.13	ug/l	SW846 8260B
FA67699-5	**DUP-01-082719**					
cis-1,2-Dichloroethylene		240	2.5	0.63	ug/l	SW846 8260B
trans-1,2-Dichloroethylene		1.4 J	2.5	0.63	ug/l	SW846 8260B
Tetrachloroethylene		26.6	2.5	0.63	ug/l	SW846 8260B
Trichloroethylene		9.2	2.5	0.63	ug/l	SW846 8260B
Vinyl Chloride		9.0	2.5	0.63	ug/l	SW846 8260B
FA67699-7	**TB-083019-02**					
Acetone [a]		3.4 J	10	2.0	ug/l	SW846 8260B
Toluene [a]		0.18 J	0.50	0.13	ug/l	SW846 8260B

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-21-082919		
Lab Sample ID:	FA67699-1	**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100701.D	50	09/06/19 12:23	AB	n/a	n/a	VE2199
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	100	ug/l	
71-43-2	Benzene	ND	25	6.3	ug/l	
108-86-1	Bromobenzene	ND	25	6.3	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.3	ug/l	
75-25-2	Bromoform	ND	25	6.3	ug/l	
104-51-8	n-Butylbenzene	ND	25	6.3	ug/l	
135-98-8	sec-Butylbenzene	ND	25	6.3	ug/l	
98-06-6	tert-Butylbenzene	ND	25	6.3	ug/l	
56-23-5	Carbon Tetrachloride	ND	25	6.3	ug/l	
108-90-7	Chlorobenzene	ND	25	6.3	ug/l	
75-00-3	Chloroethane	323	25	10	ug/l	
67-66-3	Chloroform	ND	25	6.3	ug/l	
95-49-8	o-Chlorotoluene	ND	25	6.3	ug/l	
106-43-4	p-Chlorotoluene	ND	25	6.3	ug/l	
124-48-1	Dibromochloromethane	ND	25	6.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	12	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	6.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	25	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	6.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	6.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	6.3	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	6.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	6.3	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	6.3	ug/l	
156-60-5	trans-1,2-Dichloroethylene	19.7	25	6.3	ug/l	J
78-87-5	1,2-Dichloropropane	ND	25	6.3	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	6.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	6.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	6.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	6.3	ug/l	
100-41-4	Ethylbenzene	765	25	6.3	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-21-082919			
Lab Sample ID:	FA67699-1		**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water		**Date Received:**	08/31/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	50	10	ug/l	
98-82-8	Isopropylbenzene	43.0	25	6.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	6.3	ug/l	
74-83-9	Methyl Bromide	ND	25	10	ug/l	
74-87-3	Methyl Chloride	ND	25	10	ug/l	
74-95-3	Methylene Bromide	ND	25	6.3	ug/l	
75-09-2	Methylene Chloride	ND	100	50	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	130	63	ug/l	
103-65-1	n-Propylbenzene	66.6	25	6.3	ug/l	
100-42-5	Styrene	ND	25	6.3	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.3	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	6.3	ug/l	
127-18-4	Tetrachloroethylene	ND	25	6.3	ug/l	
108-88-3	Toluene	36.5	25	6.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	6.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	6.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	6.3	ug/l	
79-01-6	Trichloroethylene	ND	25	6.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	25	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	6.3	ug/l	
95-63-6	1,2,4-Trimethylbenzene	202	25	6.3	ug/l	
108-67-8	1,3,5-Trimethylbenzene	124	25	6.3	ug/l	
75-01-4	Vinyl Chloride	ND	25	6.3	ug/l	
	m,p-Xylene	4480	50	6.3	ug/l	
95-47-6	o-Xylene	288	25	6.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-16-082919		
Lab Sample ID:	FA67699-2	**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E100686.D	1	09/05/19 17:43	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	0.75	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.44	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16-082919			
Lab Sample ID:	FA67699-2		**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water		**Date Received:**	08/31/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	0.62	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-02-082919			
Lab Sample ID:	FA67699-3		**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water		**Date Received:**	08/31/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100687.D	1	09/05/19 18:08	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.36	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.40	0.50	0.13	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-02-082919		
Lab Sample ID:	FA67699-3	**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected　MDL = Method Detection Limit　J = Indicates an estimated value
RL = Reporting Limit　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-06-082919		
Lab Sample ID:	FA67699-4	**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100688.D	1	09/05/19 18:32	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	0.49	0.50	0.13	ug/l	J
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.16	0.50	0.13	ug/l	J
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected　MDL = Method Detection Limit　J = Indicates an estimated value
RL = Reporting Limit　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-06-082919		
Lab Sample ID:	FA67699-4	**Date Sampled:**	08/29/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-01-082719		
Lab Sample ID:	FA67699-5	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100702.D	5	09/06/19 12:47	AB	n/a	n/a	VE2199
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/l	
71-43-2	Benzene	ND	2.5	0.63	ug/l	
108-86-1	Bromobenzene	ND	2.5	0.63	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.63	ug/l	
75-25-2	Bromoform	ND	2.5	0.63	ug/l	
104-51-8	n-Butylbenzene	ND	2.5	0.63	ug/l	
135-98-8	sec-Butylbenzene	ND	2.5	0.63	ug/l	
98-06-6	tert-Butylbenzene	ND	2.5	0.63	ug/l	
56-23-5	Carbon Tetrachloride	ND	2.5	0.63	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.63	ug/l	
75-00-3	Chloroethane	ND	2.5	1.0	ug/l	
67-66-3	Chloroform	ND	2.5	0.63	ug/l	
95-49-8	o-Chlorotoluene	ND	2.5	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.5	0.63	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.63	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	1.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.5	0.63	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.5	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.63	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.63	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.63	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.63	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	0.63	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.5	0.63	ug/l	
156-59-2	cis-1,2-Dichloroethylene	240	2.5	0.63	ug/l	
156-60-5	trans-1,2-Dichloroethylene	1.4	2.5	0.63	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.5	0.63	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.5	0.63	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.5	0.63	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.63	ug/l	
100-41-4	Ethylbenzene	ND	2.5	0.63	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-01-082719		
Lab Sample ID:	FA67699-5	**Date Sampled:**	08/27/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.5	0.63	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.5	0.63	ug/l	
74-83-9	Methyl Bromide	ND	2.5	1.0	ug/l	
74-87-3	Methyl Chloride	ND	2.5	1.0	ug/l	
74-95-3	Methylene Bromide	ND	2.5	0.63	ug/l	
75-09-2	Methylene Chloride	ND	10	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	6.3	ug/l	
103-65-1	n-Propylbenzene	ND	2.5	0.63	ug/l	
100-42-5	Styrene	ND	2.5	0.63	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.63	ug/l	
127-18-4	Tetrachloroethylene	26.6	2.5	0.63	ug/l	
108-88-3	Toluene	ND	2.5	0.63	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.63	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.63	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.63	ug/l	
79-01-6	Trichloroethylene	9.2	2.5	0.63	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.5	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.63	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.63	ug/l	
75-01-4	Vinyl Chloride	9.0	2.5	0.63	ug/l	
	m,p-Xylene	ND	5.0	0.63	ug/l	
95-47-6	o-Xylene	ND	2.5	0.63	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TB-083019-02		
Lab Sample ID:	FA67699-7	**Date Sampled:**	08/30/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	E100670.D	1	09/05/19 11:14	AB	n/a	n/a	VE2198
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.4	10	2.0	ug/l	J
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	TB-083019-02		
Lab Sample ID:	FA67699-7	**Date Sampled:**	08/30/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	0.18	0.50	0.13	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA67699

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FA67699 PAGE 1 OF 1

SGS - ORLANDO Quote # SKIFF #

Client / Reporting Information		Project Information	
Company Name:	ERM	Project Name:	Kent 212
Address:	1218 3rd Ave, St. 1412	Street	8201 S. 212th St
City: Seattle	State: WA Zip: 98101	City: Kent	State: WA
Project Contact: Dylan Stankus	Email: Dylan.Stankus@erm.com	Project #	0487093
Phone #:		Fax #	
Sampler(s) Name(s) (Printed) Sampler 1: AL	Sampler 2:	Client Purchase Order #	

Analytical Information: VOC's - 8260

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC's - 8260	LAB USE ONLY
1	MW-21-082919	08/29	1015	AL	W	3			X							X	
2	MW-16-082919		1117	AL	W	3			X							X	
3	MW-02-082919		1314	AL	W	3			X							X	
4	MW-06-082919		1410	AL	W	3			X							X	
5	DUP-01-082719	08/27	1535	AL	W	3			X							X	*Hold HS turbidity
6	MW-29D-083019	08/30	1230	AL	W	3			X							X	
7	TB-083019-02				W	4			X							X	

Turnaround Time (Business days)

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alison Leake / ERM	08/30 1400	2 [illegible] 8/31/19 930	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

http://www.sgs.com/en/terms-and-conditions

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 2.8

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FA67699: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: FA67699 **Client:** ERM/UNIVAR **Project:** Univar - 212 Kent, WA

Date / Time Received: 8/31/2019 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 790979323921

Therm ID: IR 1; **Therm CF:** 1; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑
	W	**S**	**N/A**
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram ______ 5-Gram ______ Number of 5035 Field Kits: ______ Number of Lab Filtered Metals: ______

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) ______ ______

Residual Chlorine Test Strip Lot #: ______

Comments

SM001
Rev. Date 05/24/17

Technician: PETERH Date: 8/31/2019 9:30:00 AM Reviewer: PH Date: 9/2/2019

FA67699: Chain of Custody
Page 2 of 2

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-MB	E100667.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-2, FA67699-3, FA67699-4, FA67699-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-MB	E100667.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-2, FA67699-3, FA67699-4, FA67699-7

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-MB	E100696.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-1, FA67699-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-MB	E100696.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-1, FA67699-5

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Blank Spike Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-BS	E100665.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-2, FA67699-3, FA67699-4, FA67699-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	54.3	109	50-147
71-43-2	Benzene	10	9.8	98	81-122
108-86-1	Bromobenzene	10	10	100	80-121
75-27-4	Bromodichloromethane	10	10.1	101	79-123
75-25-2	Bromoform	10	9.0	90	66-123
104-51-8	n-Butylbenzene	10	10.5	105	79-126
135-98-8	sec-Butylbenzene	10	10.5	105	83-133
98-06-6	tert-Butylbenzene	10	9.4	94	80-133
56-23-5	Carbon Tetrachloride	10	10.8	108	76-136
108-90-7	Chlorobenzene	10	9.7	97	82-124
75-00-3	Chloroethane	10	9.3	93	62-144
67-66-3	Chloroform	10	9.8	98	80-124
95-49-8	o-Chlorotoluene	10	10	100	81-127
106-43-4	p-Chlorotoluene	10	10.1	101	83-130
124-48-1	Dibromochloromethane	10	10.1	101	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.1	91	64-123
106-93-4	1,2-Dibromoethane	10	9.9	99	75-120
75-71-8	Dichlorodifluoromethane	10	9.7	97	42-167
95-50-1	1,2-Dichlorobenzene	10	9.5	95	82-124
541-73-1	1,3-Dichlorobenzene	10	9.9	99	84-125
106-46-7	1,4-Dichlorobenzene	10	9.5	95	78-120
75-34-3	1,1-Dichloroethane	10	10.3	103	81-122
107-06-2	1,2-Dichloroethane	10	10	100	75-125
75-35-4	1,1-Dichloroethylene	10	10.7	107	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.6	96	78-120
156-60-5	trans-1,2-Dichloroethylene	10	10.0	100	76-127
78-87-5	1,2-Dichloropropane	10	10.1	101	76-124
142-28-9	1,3-Dichloropropane	10	9.6	96	80-118
594-20-7	2,2-Dichloropropane	10	10.5	105	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.3	93	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	80-120
100-41-4	Ethylbenzene	10	9.9	99	81-121
110-54-3	Hexane	10	10.8	108	69-132
98-82-8	Isopropylbenzene	10	10.3	103	83-132
99-87-6	p-Isopropyltoluene	10	10.3	103	79-130
74-83-9	Methyl Bromide	10	10.7	107	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2198-BS	E100665.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-2, FA67699-3, FA67699-4, FA67699-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.9	119	50-159
74-95-3	Methylene Bromide	10	9.9	99	78-119
75-09-2	Methylene Chloride	10	10.1	101	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.9	102	66-122
103-65-1	n-Propylbenzene	10	10.3	103	82-133
100-42-5	Styrene	10	9.7	97	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.7	97	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	10.3	103	72-120
127-18-4	Tetrachloroethylene	10	10.1	101	76-135
108-88-3	Toluene	10	9.7	97	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	73-129
71-55-6	1,1,1-Trichloroethane	10	10.1	101	75-130
79-00-5	1,1,2-Trichloroethane	10	9.8	98	76-119
79-01-6	Trichloroethylene	10	9.4	94	81-126
75-69-4	Trichlorofluoromethane	10	12.2	122	71-156
96-18-4	1,2,3-Trichloropropane	10	9.4	94	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.2	102	79-120
75-01-4	Vinyl Chloride	10	10.6	106	69-159
	m,p-Xylene	20	20.0	100	79-126
95-47-6	o-Xylene	10	9.5	95	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-BS	E100694.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-1, FA67699-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	55.1	110	50-147
71-43-2	Benzene	10	9.8	98	81-122
108-86-1	Bromobenzene	10	10	100	80-121
75-27-4	Bromodichloromethane	10	10.3	103	79-123
75-25-2	Bromoform	10	9.0	90	66-123
104-51-8	n-Butylbenzene	10	10.5	105	79-126
135-98-8	sec-Butylbenzene	10	10.5	105	83-133
98-06-6	tert-Butylbenzene	10	9.6	96	80-133
56-23-5	Carbon Tetrachloride	10	10.7	107	76-136
108-90-7	Chlorobenzene	10	9.6	96	82-124
75-00-3	Chloroethane	10	9.1	91	62-144
67-66-3	Chloroform	10	9.8	98	80-124
95-49-8	o-Chlorotoluene	10	10.1	101	81-127
106-43-4	p-Chlorotoluene	10	10.3	103	83-130
124-48-1	Dibromochloromethane	10	10.1	101	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.3	93	64-123
106-93-4	1,2-Dibromoethane	10	10	100	75-120
75-71-8	Dichlorodifluoromethane	10	9.1	91	42-167
95-50-1	1,2-Dichlorobenzene	10	9.4	94	82-124
541-73-1	1,3-Dichlorobenzene	10	10	100	84-125
106-46-7	1,4-Dichlorobenzene	10	9.6	96	78-120
75-34-3	1,1-Dichloroethane	10	10.3	103	81-122
107-06-2	1,2-Dichloroethane	10	10.3	103	75-125
75-35-4	1,1-Dichloroethylene	10	10.7	107	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	10	9.8	98	76-127
78-87-5	1,2-Dichloropropane	10	10.1	101	76-124
142-28-9	1,3-Dichloropropane	10	9.7	97	80-118
594-20-7	2,2-Dichloropropane	10	9.7	97	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.4	94	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	80-120
100-41-4	Ethylbenzene	10	9.8	98	81-121
110-54-3	Hexane	10	10.5	105	69-132
98-82-8	Isopropylbenzene	10	9.9	99	83-132
99-87-6	p-Isopropyltoluene	10	10.2	102	79-130
74-83-9	Methyl Bromide	10	9.9	99	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-BS	E100694.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-1, FA67699-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.8	118	50-159
74-95-3	Methylene Bromide	10	10.1	101	78-119
75-09-2	Methylene Chloride	10	10.4	104	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.6	101	66-122
103-65-1	n-Propylbenzene	10	10.4	104	82-133
100-42-5	Styrene	10	9.4	94	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.6	96	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	10.8	108	72-120
127-18-4	Tetrachloroethylene	10	10.0	100	76-135
108-88-3	Toluene	10	9.7	97	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	73-129
71-55-6	1,1,1-Trichloroethane	10	9.7	97	75-130
79-00-5	1,1,2-Trichloroethane	10	10.3	103	76-119
79-01-6	Trichloroethylene	10	9.6	96	81-126
75-69-4	Trichlorofluoromethane	10	11.8	118	71-156
96-18-4	1,2,3-Trichloropropane	10	10.0	100	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	79-120
75-01-4	Vinyl Chloride	10	10.1	101	69-159
	m,p-Xylene	20	19.7	99	79-126
95-47-6	o-Xylene	10	9.3	93	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-13MS	E100678.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13MSD	E100679.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13	E100671.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-2, FA67699-3, FA67699-4, FA67699-7

CAS No.	Compound	FA67623-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	232	93	250	231	92	0	50-147/21
71-43-2	Benzene	0.20	J	50	48.8	97	50	47.6	95	2	81-122/14
108-86-1	Bromobenzene	ND		50	48.2	96	50	48.5	97	1	80-121/14
75-27-4	Bromodichloromethane	ND		50	45.9	92	50	45.8	92	0	79-123/19
75-25-2	Bromoform	ND		50	31.5	63*	50	29.3	59*	7	66-123/21
104-51-8	n-Butylbenzene	ND		50	50.9	102	50	50.3	101	1	79-126/16
135-98-8	sec-Butylbenzene	ND		50	51.5	103	50	51.0	102	1	83-133/16
98-06-6	tert-Butylbenzene	ND		50	46.1	92	50	46.3	93	0	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	52.7	105	50	49.7	99	6	76-136/23
108-90-7	Chlorobenzene	ND		50	47.4	95	50	46.9	94	1	82-124/14
75-00-3	Chloroethane	ND		50	45.0	90	50	41.9	84	7	62-144/20
67-66-3	Chloroform	ND		50	49.4	99	50	47.2	94	5	80-124/15
95-49-8	o-Chlorotoluene	ND		50	49.2	98	50	49.5	99	1	81-127/15
106-43-4	p-Chlorotoluene	ND		50	49.4	99	50	49.8	100	1	83-130/15
124-48-1	Dibromochloromethane	ND		50	39.3	79	50	38.8	78	1	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.3	91	50	42.9	86	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	47.6	95	50	47.9	96	1	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	46.4	93	50	46.0	92	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	46.1	92	50	45.3	91	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	48.6	97	50	48.0	96	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	47.4	95	50	46.7	93	1	78-120/15
75-34-3	1,1-Dichloroethane	0.42	J	50	51.4	102	50	49.0	97	5	81-122/15
107-06-2	1,2-Dichloroethane	ND		50	51.0	102	50	49.9	100	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	53.3	107	50	51.2	102	4	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.24	J	50	46.5	93	50	44.8	89	4	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		50	48.4	97	50	47.0	94	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	49.1	98	50	49.0	98	0	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	46.2	92	50	47.1	94	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	48.5	97	50	45.4	91	7	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	40.8	82	50	42.1	84	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	46.0	92	50	46.8	94	2	80-120/22
100-41-4	Ethylbenzene	ND		50	48.4	97	50	47.2	94	3	81-121/14
110-54-3	Hexane	ND		50	51.0	102	50	49.4	99	3	69-132/20
98-82-8	Isopropylbenzene	ND		50	49.1	98	50	48.0	96	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	50.1	100	50	49.5	99	1	79-130/16
74-83-9	Methyl Bromide	ND		50	53.3	107	50	51.1	102	4	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-13MS	E100678.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13MSD	E100679.D	5	09/05/19	AB	n/a	n/a	VE2198
FA67623-13	E100671.D	1	09/05/19	AB	n/a	n/a	VE2198

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-2, FA67699-3, FA67699-4, FA67699-7

CAS No.	Compound	FA67623-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		50	58.5	117	50	58.5	117	0	50-159/19
74-95-3	Methylene Bromide	ND		50	49.6	99	50	49.7	99	0	78-119/14
75-09-2	Methylene Chloride	ND		50	53.4	107	50	50.2	100	6	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	246	98	250	248	99	1	66-122/16
103-65-1	n-Propylbenzene	ND		50	50.6	101	50	51.0	102	1	82-133/15
100-42-5	Styrene	ND		50	45.1	90	50	44.4	89	2	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.0	94	50	45.8	92	3	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	53.8	108	50	51.6	103	4	72-120/14
127-18-4	Tetrachloroethylene	ND		50	48.8	98	50	48.5	97	1	76-135/16
108-88-3	Toluene	ND		50	47.3	95	50	47.3	95	0	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	42.6	85	50	43.0	86	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	49.7	99	50	47.9	96	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.9	98	50	49.2	98	1	76-119/14
79-01-6	Trichloroethylene	ND		50	47.9	96	50	46.7	93	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	62.6	125	50	60.1	120	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	48.2	96	50	47.8	96	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		50	47.8	96	50	47.7	95	0	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		50	50.4	101	50	49.9	100	1	79-120/19
75-01-4	Vinyl Chloride	0.30	J	50	51.1	102	50	50.9	101	0	69-159/18
	m,p-Xylene	ND		100	96.9	97	100	94.9	95	2	79-126/15
95-47-6	o-Xylene	ND		50	45.4	91	50	44.3	89	2	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA67623-13	Limits
1868-53-7	Dibromofluoromethane	102%	100%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	109%	107%	79-125%
2037-26-5	Toluene-D8	97%	98%	94%	85-112%
460-00-4	4-Bromofluorobenzene	100%	104%	102%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-16MS	E100704.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16MSD	E100705.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16 [a]	E100697.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-1, FA67699-5

CAS No.	Compound	FA67623-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	247	99	250	250	100	1	50-147/21
71-43-2	Benzene	0.52		50	48.0	95	50	50.2	99	4	81-122/14
108-86-1	Bromobenzene	ND		50	47.1	94	50	48.6	97	3	80-121/14
75-27-4	Bromodichloromethane	ND		50	44.9	90	50	46.6	93	4	79-123/19
75-25-2	Bromoform	ND		50	30.1	60*	50	31.5	63*	5	66-123/21
104-51-8	n-Butylbenzene	ND		50	50.4	101	50	52.9	106	5	79-126/16
135-98-8	sec-Butylbenzene	0.31	J	50	50.7	101	50	53.0	105	4	83-133/16
98-06-6	tert-Butylbenzene	ND		50	45.4	91	50	47.5	95	5	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	50.3	101	50	53.9	108	7	76-136/23
108-90-7	Chlorobenzene	ND		50	46.0	92	50	48.4	97	5	82-124/14
75-00-3	Chloroethane	ND		50	83.4	167*	50	87.4	175*	5	62-144/20
67-66-3	Chloroform	0.24	J	50	49.0	98	50	51.8	103	6	80-124/15
95-49-8	o-Chlorotoluene	0.68		50	49.3	97	50	51.5	102	4	81-127/15
106-43-4	p-Chlorotoluene	ND		50	48.0	96	50	50.4	101	5	83-130/15
124-48-1	Dibromochloromethane	ND		50	38.5	77*	50	39.9	80	4	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.8	92	50	47.6	95	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	45.6	91	50	47.1	94	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	45.8	92	50	49.9	100	9	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	45.3	91	50	47.8	96	5	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	47.3	95	50	49.3	99	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	45.9	92	50	48.0	96	4	78-120/15
75-34-3	1,1-Dichloroethane	0.26	J	50	50.8	101	50	54.4	108	7	81-122/15
107-06-2	1,2-Dichloroethane	0.20	J	50	50.9	101	50	51.8	103	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	52.6	105	50	56.7	113	8	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.83		50	45.7	90	50	49.5	97	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0		50	49.1	96	50	53.1	104	8	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	48.8	98	50	49.9	100	2	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	45.1	90	50	45.9	92	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	46.0	92	50	49.5	99	7	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	38.7	77	50	38.8	78	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	43.3	87	50	44.3	89	2	80-120/22
100-41-4	Ethylbenzene	4.3		50	50.9	93	50	54.3	100	6	81-121/14
110-54-3	Hexane	2.1		50	52.1	100	50	54.2	104	4	69-132/20
98-82-8	Isopropylbenzene	7.6		50	55.2	95	50	58.6	102	6	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	48.9	98	50	50.9	102	4	79-130/16
74-83-9	Methyl Bromide	ND		50	52.3	105	50	55.7	111	6	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67699
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-16MS	E100704.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16MSD	E100705.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16 [a]	E100697.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-1, FA67699-5

CAS No.	Compound	FA67623-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		50	56.9	114	50	60.9	122	7	50-159/19
74-95-3	Methylene Bromide	ND		50	48.7	97	50	49.9	100	2	78-119/14
75-09-2	Methylene Chloride	ND		50	53.0	106	50	56.0	112	6	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	258	103	250	268	107	4	66-122/16
103-65-1	n-Propylbenzene	13.3		50	59.9	93	50	62.2	98	4	82-133/15
100-42-5	Styrene	ND		50	43.0	86	50	45.2	90	5	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.9	96	50	50.6	101	5	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.2	104	50	53.8	108	3	72-120/14
127-18-4	Tetrachloroethylene	ND		50	47.5	95	50	49.3	99	4	76-135/16
108-88-3	Toluene	0.82		50	46.8	92	50	49.2	97	5	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	41.4	83	50	45.1	90	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	48.6	97	50	51.9	104	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.2	96	50	50.2	100	4	76-119/14
79-01-6	Trichloroethylene	ND		50	46.7	93	50	48.2	96	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	63.1	126	50	65.6	131	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	47.4	95	50	48.1	96	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	44.7		50	82.9	76*	50	86.0	83	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	5.7		50	54.6	98	50	56.7	102	4	79-120/19
75-01-4	Vinyl Chloride	0.59		50	50.7	100	50	55.3	109	9	69-159/18
	m,p-Xylene	73.5		100	153	80	100	161	88	5	79-126/15
95-47-6	o-Xylene	0.41	J	50	44.4	88	50	47.9	95	8	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA67623-16	Limits
1868-53-7	Dibromofluoromethane	104%	105%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	107%	79-125%
2037-26-5	Toluene-D8	97%	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	104%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

* = Outside of Control Limits.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Univar

ERMORP: Univar; 8201 S 212th St, Kent, WA

0487093

SGS Job Number: FA67699R

Sampling Date: 08/30/19

Report to:

ERM
1050 SW 6th Ave Suite 1650
Portland, OR 97204
Dylan.Stankus@erm.com; Alison.Lunde@erm.com

ATTN: Dylan Stankus

Total number of pages in report: **19**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions

Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Sections:

1
2
3
4
5
6

Table of Contents

-1-

SGS North America Inc.

Sample Summary

Univar

Job No: FA67699R

ERMORP: Univar; 8201 S 212th St, Kent, WA
Project No: 0487093

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA67699-6R	08/30/19	12:30	AL	08/31/19	AQ	Ground Water	MW-29D-083019

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Univar	**Job No:**	FA67699R
Site:	ERMORP: Univar; 8201 S 212th St, Kent, WA	**Report Date**	9/12/2019 2:19:38

1 Sample was collected on 08/30/2019 and received at SGS North America Inc - Orlando on 08/31/2019 properly preserved, at 2.8 Deg. C and intact. This Sample received an SGS Orlando job number of FA67699R. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** VE2199

All samples were analyzed within the recommended method holding time.

Sample(s) FA67623-16MS, FA67623-16MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for 1,2,4-Trimethylbenzene, Bromoform, Chloroethane, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Bromoform, Chloroethane are outside control limits. Probable cause is due to matrix interference.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

____

Ariel Hartney, Client Services *(Signature on File)*

Summary of Hits

Job Number: FA67699R
Account: Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA
Collected: 08/30/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA67699-6R	**MW-29D-083019**					
Toluene		1.8	0.50	0.13	ug/l	SW846 8260B

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-29D-083019		
Lab Sample ID:	FA67699-6R	**Date Sampled:**	08/30/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E100703.D	1	09/06/19 13:12	AB	n/a	n/a	VE2199
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-29D-083019		
Lab Sample ID:	FA67699-6R	**Date Sampled:**	08/30/19
Matrix:	AQ - Ground Water	**Date Received:**	08/31/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ERMORP: Univar; 8201 S 212th St, Kent, WA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	1.8	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA67699

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB # : FA67699 | PAGE 1 OF 1

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: ERM
Address: 1218 3rd Ave, St. 1412
City: Seattle State: WA Zip: 98101
Project Contact: Dylan Stankus Email: Dylan.Stankus@erm.com
Phone #:
Sampler(s) Name(s) (Printed)
Sampler 1: AL Sampler 2:

Project Information

Project Name: Kent 212
Street: 8201 S. 212th St
City: Kent State: WA
Project #: 0487093
Fax #:
Client Purchase Order #:

Analytical Information: VOC's - 8260

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	VOC's - 8260	LAB USE ONLY
1	MW-21-082919	08/29	1015	AL	W	3			X							X	
2	MW-16-082919		1117	AL	W	3			X							X	
3	MW-02-082919		1314	AL	W	3			X							X	
4	MW-06-082919		1410	AL	W	3			X							X	
5	Dup-01-082719	08/27	1535	AL	W	3			X							X	Hold HS, turbidity
6	MW-29D-083019	08/30	1230	AL	W	3			X							X	
7	TB-083019-02				W	4			X							X	

Comments / Remarks

Turnaround Time (Business days)

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☐ EDD'S

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Alison Lude / ERM	08/30 1400	2 [illegible] 8/31/19 930	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

http://www.sgs.com/en/terms-and-conditions

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 2.8

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

5.1 | 5

FA67699R: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: FA67699 **Client:** ERM/UNIVAR **Project:** Univar - 212 Kent, WA

Date / Time Received: 8/31/2019 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 790979323921

Therm ID: IR 1; **Therm CF:** 1; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☐	☐	☑
2. Trip Blank listed on COC	☐	☐	☑

	W	S	N/A
3. Type Of TB Received	☐	☐	☑

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☐	☑
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram ______ 5-Gram ______ Number of 5035 Field Kits: ______ Number of Lab Filtered Metals: ______

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) ______

Residual Chlorine Test Strip Lot #: ______

Comments

SM001
Rev. Date 05/24/17

Technician: PETERH Date: 8/31/2019 9:30:00 AM Reviewer: PH Date: 9/2/2019

FA67699R: Chain of Custody
Page 2 of 3

Job Change Order: FA67699

Requested Date:	9/9/2019	**Received Date:**	8/31/2019
Account Name:	Univar	**Due Date:**	9/16/2019
Project Description:	ERMORP: Univar; 8201 S 212th St, Kent, WA	**Deliverable:**	COMMBN
CSR:	EK	**TAT (Days):**	10

==

Sample #: FA67699-6

Dept:

TAT: 10

MW-29D-083019

Change:
Run sample for VOCs (VLL8260SL)

==

Above Changes Per: Dylan Stankus

Date/Time: 9/9/2019 3:37:01 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA67699R
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-MB	E100696.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-6R

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.13	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.13	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.13	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.13	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.13	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.13	ug/l	
75-00-3	Chloroethane	ND	0.50	0.20	ug/l	
67-66-3	Chloroform	ND	0.50	0.13	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.13	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.13	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.25	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.13	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.13	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.13	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.13	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.13	ug/l	
110-54-3	Hexane	ND	1.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.13	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.13	ug/l	
74-83-9	Methyl Bromide	ND	0.50	0.20	ug/l	

Method Blank Summary

Job Number: FA67699R
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-MB	E100696.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-6R

CAS No.	Compound	Result	RL	MDL	Units	Q
74-87-3	Methyl Chloride	ND	0.50	0.20	ug/l	
74-95-3	Methylene Bromide	ND	0.50	0.13	ug/l	
75-09-2	Methylene Chloride	ND	2.0	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	2.5	1.3	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.13	ug/l	
100-42-5	Styrene	ND	0.50	0.13	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.13	ug/l	
108-88-3	Toluene	ND	0.50	0.13	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.13	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.13	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.13	ug/l	
75-01-4	Vinyl Chloride	ND	0.50	0.13	ug/l	
	m,p-Xylene	ND	1.0	0.13	ug/l	
95-47-6	o-Xylene	ND	0.50	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Blank Spike Summary

Job Number: FA67699R
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-BS	E100694.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-6R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	55.1	110	50-147
71-43-2	Benzene	10	9.8	98	81-122
108-86-1	Bromobenzene	10	10	100	80-121
75-27-4	Bromodichloromethane	10	10.3	103	79-123
75-25-2	Bromoform	10	9.0	90	66-123
104-51-8	n-Butylbenzene	10	10.5	105	79-126
135-98-8	sec-Butylbenzene	10	10.5	105	83-133
98-06-6	tert-Butylbenzene	10	9.6	96	80-133
56-23-5	Carbon Tetrachloride	10	10.7	107	76-136
108-90-7	Chlorobenzene	10	9.6	96	82-124
75-00-3	Chloroethane	10	9.1	91	62-144
67-66-3	Chloroform	10	9.8	98	80-124
95-49-8	o-Chlorotoluene	10	10.1	101	81-127
106-43-4	p-Chlorotoluene	10	10.3	103	83-130
124-48-1	Dibromochloromethane	10	10.1	101	78-122
96-12-8	1,2-Dibromo-3-chloropropane	10	9.3	93	64-123
106-93-4	1,2-Dibromoethane	10	10	100	75-120
75-71-8	Dichlorodifluoromethane	10	9.1	91	42-167
95-50-1	1,2-Dichlorobenzene	10	9.4	94	82-124
541-73-1	1,3-Dichlorobenzene	10	10	100	84-125
106-46-7	1,4-Dichlorobenzene	10	9.6	96	78-120
75-34-3	1,1-Dichloroethane	10	10.3	103	81-122
107-06-2	1,2-Dichloroethane	10	10.3	103	75-125
75-35-4	1,1-Dichloroethylene	10	10.7	107	78-137
156-59-2	cis-1,2-Dichloroethylene	10	9.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	10	9.8	98	76-127
78-87-5	1,2-Dichloropropane	10	10.1	101	76-124
142-28-9	1,3-Dichloropropane	10	9.7	97	80-118
594-20-7	2,2-Dichloropropane	10	9.7	97	74-139
10061-01-5	cis-1,3-Dichloropropene	10	9.4	94	75-118
10061-02-6	trans-1,3-Dichloropropene	10	9.8	98	80-120
100-41-4	Ethylbenzene	10	9.8	98	81-121
110-54-3	Hexane	10	10.5	105	69-132
98-82-8	Isopropylbenzene	10	9.9	99	83-132
99-87-6	p-Isopropyltoluene	10	10.2	102	79-130
74-83-9	Methyl Bromide	10	9.9	99	59-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA67699R
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VE2199-BS	E100694.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-6R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-87-3	Methyl Chloride	10	11.8	118	50-159
74-95-3	Methylene Bromide	10	10.1	101	78-119
75-09-2	Methylene Chloride	10	10.4	104	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.6	101	66-122
103-65-1	n-Propylbenzene	10	10.4	104	82-133
100-42-5	Styrene	10	9.4	94	78-119
630-20-6	1,1,1,2-Tetrachloroethane	10	9.6	96	77-122
79-34-5	1,1,2,2-Tetrachloroethane	10	10.8	108	72-120
127-18-4	Tetrachloroethylene	10	10.0	100	76-135
108-88-3	Toluene	10	9.7	97	80-120
120-82-1	1,2,4-Trichlorobenzene	10	9.1	91	73-129
71-55-6	1,1,1-Trichloroethane	10	9.7	97	75-130
79-00-5	1,1,2-Trichloroethane	10	10.3	103	76-119
79-01-6	Trichloroethylene	10	9.6	96	81-126
75-69-4	Trichlorofluoromethane	10	11.8	118	71-156
96-18-4	1,2,3-Trichloropropane	10	10.0	100	77-120
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	79-120
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	79-120
75-01-4	Vinyl Chloride	10	10.1	101	69-159
	m,p-Xylene	20	19.7	99	79-126
95-47-6	o-Xylene	10	9.3	93	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67699R
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-16MS	E100704.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16MSD	E100705.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16 [a]	E100697.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-6R

CAS No.	Compound	FA67623-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	247	99	250	250	100	1	50-147/21
71-43-2	Benzene	0.52		50	48.0	95	50	50.2	99	4	81-122/14
108-86-1	Bromobenzene	ND		50	47.1	94	50	48.6	97	3	80-121/14
75-27-4	Bromodichloromethane	ND		50	44.9	90	50	46.6	93	4	79-123/19
75-25-2	Bromoform	ND		50	30.1	60*	50	31.5	63*	5	66-123/21
104-51-8	n-Butylbenzene	ND		50	50.4	101	50	52.9	106	5	79-126/16
135-98-8	sec-Butylbenzene	0.31	J	50	50.7	101	50	53.0	105	4	83-133/16
98-06-6	tert-Butylbenzene	ND		50	45.4	91	50	47.5	95	5	80-133/16
56-23-5	Carbon Tetrachloride	ND		50	50.3	101	50	53.9	108	7	76-136/23
108-90-7	Chlorobenzene	ND		50	46.0	92	50	48.4	97	5	82-124/14
75-00-3	Chloroethane	ND		50	83.4	167*	50	87.4	175*	5	62-144/20
67-66-3	Chloroform	0.24	J	50	49.0	98	50	51.8	103	6	80-124/15
95-49-8	o-Chlorotoluene	0.68		50	49.3	97	50	51.5	102	4	81-127/15
106-43-4	p-Chlorotoluene	ND		50	48.0	96	50	50.4	101	5	83-130/15
124-48-1	Dibromochloromethane	ND		50	38.5	77*	50	39.9	80	4	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	45.8	92	50	47.6	95	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		50	45.6	91	50	47.1	94	3	75-120/13
75-71-8	Dichlorodifluoromethane	ND		50	45.8	92	50	49.9	100	9	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		50	45.3	91	50	47.8	96	5	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		50	47.3	95	50	49.3	99	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		50	45.9	92	50	48.0	96	4	78-120/15
75-34-3	1,1-Dichloroethane	0.26	J	50	50.8	101	50	54.4	108	7	81-122/15
107-06-2	1,2-Dichloroethane	0.20	J	50	50.9	101	50	51.8	103	2	75-125/14
75-35-4	1,1-Dichloroethylene	ND		50	52.6	105	50	56.7	113	8	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.83		50	45.7	90	50	49.5	97	8	78-120/15
156-60-5	trans-1,2-Dichloroethylene	1.0		50	49.1	96	50	53.1	104	8	76-127/17
78-87-5	1,2-Dichloropropane	ND		50	48.8	98	50	49.9	100	2	76-124/14
142-28-9	1,3-Dichloropropane	ND		50	45.1	90	50	45.9	92	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		50	46.0	92	50	49.5	99	7	74-139/17
10061-01-5	cis-1,3-Dichloropropene	ND		50	38.7	77	50	38.8	78	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		50	43.3	87	50	44.3	89	2	80-120/22
100-41-4	Ethylbenzene	4.3		50	50.9	93	50	54.3	100	6	81-121/14
110-54-3	Hexane	2.1		50	52.1	100	50	54.2	104	4	69-132/20
98-82-8	Isopropylbenzene	7.6		50	55.2	95	50	58.6	102	6	83-132/15
99-87-6	p-Isopropyltoluene	ND		50	48.9	98	50	50.9	102	4	79-130/16
74-83-9	Methyl Bromide	ND		50	52.3	105	50	55.7	111	6	59-143/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA67699R
Account: UNIVAR Univar
Project: ERMORP: Univar; 8201 S 212th St, Kent, WA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA67623-16MS	E100704.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16MSD	E100705.D	5	09/06/19	AB	n/a	n/a	VE2199
FA67623-16 [a]	E100697.D	1	09/06/19	AB	n/a	n/a	VE2199

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA67699-6R

CAS No.	Compound	FA67623-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
74-87-3	Methyl Chloride	ND		50	56.9	114	50	60.9	122	7	50-159/19
74-95-3	Methylene Bromide	ND		50	48.7	97	50	49.9	100	2	78-119/14
75-09-2	Methylene Chloride	ND		50	53.0	106	50	56.0	112	6	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	258	103	250	268	107	4	66-122/16
103-65-1	n-Propylbenzene	13.3		50	59.9	93	50	62.2	98	4	82-133/15
100-42-5	Styrene	ND		50	43.0	86	50	45.2	90	5	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	47.9	96	50	50.6	101	5	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.2	104	50	53.8	108	3	72-120/14
127-18-4	Tetrachloroethylene	ND		50	47.5	95	50	49.3	99	4	76-135/16
108-88-3	Toluene	0.82		50	46.8	92	50	49.2	97	5	80-120/14
120-82-1	1,2,4-Trichlorobenzene	ND		50	41.4	83	50	45.1	90	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		50	48.6	97	50	51.9	104	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		50	48.2	96	50	50.2	100	4	76-119/14
79-01-6	Trichloroethylene	ND		50	46.7	93	50	48.2	96	3	81-126/15
75-69-4	Trichlorofluoromethane	ND		50	63.1	126	50	65.6	131	4	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		50	47.4	95	50	48.1	96	1	77-120/16
95-63-6	1,2,4-Trimethylbenzene	44.7		50	82.9	76*	50	86.0	83	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	5.7		50	54.6	98	50	56.7	102	4	79-120/19
75-01-4	Vinyl Chloride	0.59		50	50.7	100	50	55.3	109	9	69-159/18
	m,p-Xylene	73.5		100	153	80	100	161	88	5	79-126/15
95-47-6	o-Xylene	0.41	J	50	44.4	88	50	47.9	95	8	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA67623-16	Limits
1868-53-7	Dibromofluoromethane	104%	105%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	112%	111%	107%	79-125%
2037-26-5	Toluene-D8	97%	98%	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	100%	104%	83-118%

(a) Sample vial(s) contained bubbles greater than 6mm; reported results are considered minimum values.

* = Outside of Control Limits.

ERM

1050 SW 6th Avenue
Suite 1650
Portland, OR 97204

Telephone: (503) 488-5282
Fax: (503) 488-5124

www.erm.com

Memo

To	Dylan Stankus
From	Rachel James
Date	16 September 2019
Reference	0487093
Subject	Data Review of Univar Kent, Washington 2019 Groundwater Samples: SGS North America, Inc. Data Package FA64743.

The data quality was assessed and any necessary qualifiers were applied following the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, January 2017.

HOLDING TIME AND PRESERVATION EVALUATION

The samples were prepared and analyzed within the method-prescribed time period from the date of collection. The sample shipments were received at the laboratory within the method-prescribed temperature preservation requirements of less than 6°C.

The VOA vials used for at least one analytical run for samples MW-13-053119, MW-16-060319, MW-5-053019, MW-17-053119, MW-22-053119, and MW-20-060319 contained headspace. For samples MW-16-060319, MW-5-053019, MW-17-053119, and MW-20-060319, only one compound was affected and those results were qualified as estimates with a low bias (J-). For samples MW-13-053119 and MW-22-053119, all compounds were affected and a comparison of historical results was performed to check for consistency of detected and non-detected results.

Historical data is not readily available for comparison for 39 of the 57 reported VOCs (referred to as non-contaminants of concern [non-COCs]). The non-detected results for these analytes were rejected (R) and the detected results were qualified as estimates with a low bias (J-). For the VOC contaminants of concern (COCs), all non-detected results were comparable to historical results and were qualified as estimates (UJ), and detected results were qualified as estimates with a low bias (J-). Historical results that were consistently reported below the reporting limit did not result in rejection of current results. Additionally, for the common lab contaminant, methylene chloride, the historical data show that it has been sporadically detected in most wells and the current results were not rejected. Qualifications applied due to the headspace are displayed in Table 1.

CONTINUING CALIBRATION VERIFICATION (CCV) EVALUATION

The continuing calibration verification (CCV) recoveries were within the laboratory's limits of acceptance, with some exceptions. CCV percent recoveries were greater than the upper control limits for target analytes: trichlorofluoromethane, methyl bromide, dichlorodifluoromethane, and chloroethane. However, since associated sample results for these compounds were non-detected,

© Copyright 2018 by ERM Worldwide Group Limited and/or its affiliates ('ERM'). All Rights Reserved. No part of this work may be reproduced or transmitted in any form or by any means, without prior written permission of ERM.

no sample data were qualified. The CCV compounds that did not meet control limits are presented in Table 2.

BLANK EVALUATION

The method and trip blank sample results were nondetected for each of the target analytes. No data were qualified on the basis of the blank evaluation. The blank results indicate that no contaminants were introduced to the samples during processing or analysis in the laboratory or during shipment, handling, and storage.

BLANK SPIKE EVALUATION

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries and RPDs were within the laboratory's limits of acceptance. The LCS recoveries and RPDs indicate acceptable laboratory accuracy and precision.

MATRIX SPIKE EVALUATION

The matrix spike (MS)/matrix spike duplicate (MSD) recoveries and RPDs were within laboratory limits of acceptance with several exceptions. No data were qualified if the outlier could be verified by an in-control result. Remaining sample results associated with low MS and MSD recoveries were qualified as estimated with a low bias (J-/UJ). The outliers and associated qualifications can be found in Table 3.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits. No qualifications were required based on surrogate recoveries. The surrogate recoveries indicate minimal matrix interference in the samples.

FIELD DUPLICATE EVALUATION

Two samples were submitted in duplicate. ERM calculated the relative percent differences (RPDs) between detected results in Table 4. The USEPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision.

OVERALL ASSESSMENT

Select VOCs from samples MW-13-053119 and MW-22-053119 were rejected due to headspace and the lack of historical data for comparison. With exception of the rejected results, all of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically-defensible documents.

Table 1
Samples with Exceeded Preservation Requirements
2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Sample ID	Method	Affected Compound	Preservation Condition	Limits	ERM Qualifier
FA64743	MW-13-053119	8260B	Non-COC VOCs[1]	> 6mm headspace	No headspace	J-/R
			COC VOCs[2]			J-/UJ
	MW-16-060319		Chloroethane			J-
	MW-5-053019		Tetrachloroethene			J-
	MW-17-053119		Chloroethane			J-
	MW-22-053119		Non-COC VOCs[1]			J-/R
			COC VOCs[2]			J-/UJ
	MW-20-060319		Chloroethane			J-

Lab package reviewed: FA64743

Notes:

1 = Non-COC VOCs are 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 4-Chlorotoluene, 4-Isopropyltoluene, 4-Methyl-2-pentanone, Acetone, Bromobenzene, Bromodichloromethane, Bromoform, Carbon tetrachloride, Chlorobenzene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Ethylene dibromide, Isopropylbenzene, Methyl bromide, Methyl chloride, n-Butylbenzene, n-Hexane, n-Propylbenzene, o-Chlorotoluene, sec-Butylbenzene, Styrene, tert-Butylbenzene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, and Trichlorofluoromethane
2 = COC VOCs are 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trimethylbenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, Benzene, Chloroethane, Chloroform, cis-1,2-Dichloroethene, Ethylbenzene, m,p-Xylenes, Methylene chloride, o-Xylene, Tetrachloroethene, Toluene, Trichloroethene, and Vinyl chloride
J- = Detected results are estimated with a low bias

J-/R = Detected results are estimated, biased low; nondetected results are rejected

J-/UJ = Detected results are estimated with low bias; nondetected results are estimated at the report limit

mm = Millimeters

Table 2
Calibration Verification Recoveries Outside of Acceptable Limits
2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

<table>
<tr><th>Lab Package</th><th>CCV Sample ID</th><th>Compound</th><th>CCV Recovery (%)</th><th>CCV Limits (%)</th><th>Associated Sample</th><th>Reported Concentration</th><th>Units</th><th>ERM Qualifier</th></tr>
<tr><td rowspan="4">FA64743</td><td rowspan="4">Batch VE2142 CCV</td><td>Trichlorofluoromethane</td><td rowspan="4">High</td><td rowspan="4">NR</td><td rowspan="3">MW-21-053119
MW-1-053119
MW-9-053119
MW-12-060319
MW-6-060319
MW-14-060319
MW-2-060319
MW-16-060319
MW-28-060319
DUP-2-060319</td><td rowspan="4">ND</td><td rowspan="4">µg/L</td><td rowspan="4">--</td></tr>
<tr><td>Methyl Bromide</td></tr>
<tr><td>Dichlorodifluoromethane</td></tr>
<tr><td>Chloroethane</td><td>MW-9-053119
MW-12-060319
MW-6-060319
MW-14-060319
MW-2-060319
MW-28-060319
DUP-2-060319</td></tr>
</table>

Lab package reviewed: FA64743

Notes:
CCV = Continuing calibration verification
High = Recovery above maximum acceptable limit
ND = Not detected
NR = Not reported
µg/L = Micrograms per liter

Table 3
Spike Recoveries Outside of Acceptable Limits
2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Spike Sample ID	Associated Sample	Compound	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
MS/MSD										
FA64743	MW-4-053119 MS/MSD Batch VE2142	MW-4-053119	Bromoform	58/59	66-123	2	21	ND	µg/L	UJ
			Dibromochloromethane	74/76	78-122	3	19	ND	µg/L	UJ
			trans-1,3-Dichloropropene	74/75	80-120	1	22	ND	µg/L	UJ
			Styrene	67/68	78-119	1	23	ND	µg/L	UJ
	MW-18-053019 MS/MSD	MW-18-053019	Bromoform	51/50	66-123	3	21	ND	µg/L	UJ
			Dibromochloromethane	70/65	78-122	7	19	ND	µg/L	UJ
			cis-1,3-Dichloropropene	73/72	75-118	2	23	ND	µg/L	UJ
			trans-1,3-Dichloropropene	83/78	80-120	6	22	ND	µg/L	--
	MW-4-053119 MS/MSD Batch VE2146	MW-4-053119	Bromoform	47/50	66-123	6	21	ND	µg/L	Qualified above
			Dibromochloromethane	66/69	78-122	5	19	ND	µg/L	Qualified above
			trans-1,3-Dichloropropene	78/82	80-120	5	22	ND	µg/L	Qualified above
			Isopropylbenzene	79/82	83-132	3	15	26.4	µg/L	J-
			n-Propylbenzene	79/83	82-133	3	15	24.4	µg/L	--
			Styrene	77/80	78-119	3	23	ND	µg/L	--

Lab package reviewed: FA64743

Notes:
J- = Estimated detection with low bias
MS/MSD - Matrix spike/matrix spike duplicate
ND = Not detected
RPD = Relative percent difference
µg/L = Micrograms per liter
UJ = Nondetected, estimated report limit

Table 4
Field Duplicate Results and Calculated Relative Percent Differences
2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Primary/Duplicate Sample ID	Compound	Concentration		Report Limit		Units	RPD
			Sample	Duplicate	Sample	Duplicate		
FA64743	MW-3-053119/ DUP-1-053119	Benzene	0.26	0.24	0.50	0.50	µg/L	8.0
		Chloroethane	1.2	1.1	0.50	0.50	µg/L	8.7
		1,1-Dichloroethane	0.40	0.37	0.50	0.50	µg/L	7.8
		cis-1,2-Dichloroethylene	0.71	0.74	0.50	0.50	µg/L	4.1
		trans-1,2-Dichloroethylene	0.28	0.27	0.50	0.50	µg/L	3.6
		Vinyl Chloride	0.53	0.52	0.50	0.50	µg/L	1.9
	MW-12-060319/ DUP-2-060319	1,1-Dichloroethylene	0.19	0.17	0.50	0.50	µg/L	11
		cis-1,2-Dichloroethylene	147	143	2.5	2.5	µg/L	2.8
		trans-1,2-Dichloroethylene	0.74	0.95	0.50	0.50	µg/L	25
		Tetrachloroethylene	55.0	51.8	2.5	2.5	µg/L	6.0
		Trichloroethylene	11.6	11.3	0.50	0.50	µg/L	2.6
		Vinyl Chloride	6.1	5.5	0.50	0.50	µg/L	10

Lab package reviewed: FA64743

Notes:
RPD = Relative percent difference
µg/L = Micrograms per liter

ERM

1050 SW 6th Avenue
Suite 1650
Portland, OR 97204

Telephone: (503) 488-5282
Fax: (503) 488-5124

www.erm.com

Memorandum

To	Dylan Stankus
From	Jack James
Date	03 October 2019
Reference	0487093
Subject	Data Review of Univar Kent, Washington August 2019 Groundwater Samples: SGS North America, Inc. Data Package FA67623, FA67699, and FA67669R.

The data quality was assessed and any necessary qualifiers were applied following the *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, January 2017.

CHAIN-OF-CUSTODY DISCREPANCIES

There were some issues between the chain-of-custody (COC) and the sample delivery for report FA67623. The laboratory indicated sample DUP-01-082719 was not received with the shipment. This sample arrived later with the sample shipment for report FA67699. Additionally, the sample TRIP BLANK was received with the shipment for report FA67623 but was not listed on the COC. The laboratory logged the sample in and proceeded with analysis. No data were qualified due to the COC discrepancies.

CASE NARRATIVE COMMENTS

The laboratory case narrative for report FA67623 indicated the methylene chloride results for samples MW-12-082719 and MW-05-082719 were suspected laboratory contamination. This comment is not related to actual laboratory contamination for the sample, as shown by the method blank non-detect result for methylene chloride, but rather a general comment referring to methylene chloride defined as a common laboratory contaminant by industry. No qualifications were applied due to the case narrative comment.

HOLDING TIME AND PRESERVATION EVALUATION

The samples were prepared and analyzed within the method-prescribed time period from the date of collection, with one exception. Sample MW-17-082819 was analyzed for chloroethane from a vial with a pH of greater than two one day past the shortened hold time of seven days for nonpreserved samples. Consequently the detected result for chloroethane was qualified as estimated with a low bias (J-) due to the hold time exceedance. The qualified result is presented in Table 1.

The sample shipments were received at the laboratory within the method-prescribed temperature preservation requirements of less than 6°C.

© Copyright 2018 by ERM Worldwide Group Limited and/or its affiliates ('ERM'). All Rights Reserved. No part of this work may be reproduced or transmitted in any form or by any means, without prior written permission of ERM.

The volatile organic analysis vials used for at least one analytical run for samples MW-20-082819, MW-13-082819, MW-18-082819, DUP-02-082819, MW-17-082819, MW-16-082919, and TB-083019-02 contained headspace. For sample MW-20-082819, only the result for chloroethane was affected and the result was qualified as an estimate with a low bias (J-). For the trip blank sample TB-083019-02 the non-detected results were rejected (R) and the detected results were qualified as estimates with a low bias (J-). For samples MW-13-082819, MW-18-082819, DUP-02-082819, MW-17-082819, and MW-16-082919, all compounds were affected and a comparison of historical results was performed to check for consistency of detected and non-detected results.

Historical data is not readily available for comparison for 39 of the 57 reported volatile organic compounds (VOCs) (referred to as non-contaminants of concern [non-COCs]). The non-detected results for these analytes were rejected (R) and the detected results were qualified as estimates with a low bias (J-). For the VOC contaminants of concern (COCs), all non-detected results were comparable to historical results and were qualified as estimates (UJ), and detected results were qualified as estimates with a low bias (J-). Historical results that were consistently reported below the reporting limit did not result in rejection of current results. Additionally, for the common laboratory contaminants, methylene chloride and acetone, the historical data show that they have been sporadically detected in most wells and the current results were not rejected. Qualifications applied due to the headspace are displayed in Table 2.

BLANK EVALUATION

The method and trip blank sample results were non-detected for each of the target analytes with several exceptions. Non-detected results or results greater than five times the blank concentration were considered not affected by the blank contamination and were not qualified. Results within five times the blank concentration and less than the reporting limit were qualified as non-detect (U) at the MRL. One result within five times the blank concentration and greater than the reporting limit was qualified as estimated with a high bias (J+). The blank detections and associated data are presented in Table 3.

The non-detected trip blank results for TB-083019-02 associated with samples in reports FA67699 and FA67699R were rejected due to headspace in the vial used for analysis. Therefore, the trip blank results cannot be used to evaluate whether or not contaminants were introduced to the samples during shipment, handling, and storage.

BLANK SPIKE EVALUATION

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries and relative percent differences (RPDs) were within the laboratory’s limits of acceptance. The LCS recoveries and RPDs indicate acceptable laboratory accuracy and precision.

MATRIX SPIKE EVALUATION

The matrix spike (MS)/matrix spike duplicate (MSD) recoveries and RPDs were within laboratory limits of acceptance with several exceptions. No data were qualified if the outlier could be verified by an in-control result. The detected chloroethane result in sample MW-04-082719 was qualified as estimated with a no bias (J) due to both high and low recoveries in the MS/MSD pair. Remaining non-detected sample results associated with low MS and MSD recoveries were qualified as estimated at the reporting limit (UJ). Non-detected results for sample MW-13-082819 were qualified as estimated at the reporting limit (UJ) or rejected (R) due to additional sample preservation exceedances. The outliers and associated qualifications can be found in Table 4.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits. No qualifications were required based on surrogate recoveries. The surrogate recoveries indicate minimal matrix interference in the samples.

FIELD DUPLICATE EVALUATION

Two samples were collected and submitted in duplicate. ERM calculated the relative percent difference (RPD) between the detected results of the primary and duplicate samples. The USEPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision. A list of the field duplicate detections and the calculated RPDs are provided in Table 5.

OVERALL ASSESSMENT

Select VOCs from samples MW-13-082819, MW-18-082819, DUP-02-082819, MW-17-082819, MW-16-082919, and TB-083019-02 were rejected due to headspace and the lack of historical data for comparison. With exception of the rejected results, all of the data, including qualified data, can be used for decision-making purposes; however, the limitations indicated by the applied qualifiers should be considered when using the data. The quality of the data generated during this investigation is acceptable for the preparation of technically-defensible documents.

Table 1
Samples with Exceeded Holding Times
August 2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Sample ID	Method	Extraction Holding Time	Time Exceeded	Analysis Holding Time	Time Exceeded	ERM Qualifier
FA67623	MW-17-082819	8260B, Chloroethane only	--	--	7 days	1 day	J-

Lab packages reviewed: FA67623, FA67699, and FA67669R

Notes:
J- = Detected results are estimated with a low bias

Table 2
Samples with Exceeded Preservation Requirements
August 2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Sample ID	Method	Affected Compound	Preservation Condition	Limits	ERM Qualifier
FA67623	MW-20-082819	8260B	Chloroethane	> 6mm headspace	No headspace	J-
	MW-13-082819		Non-COC VOCs[1]			J-/R
			COC VOCs[2]			J-/UJ
	MW-18-082819		Non-COC VOCs[1]			R
			COC VOCs[2]			J-/UJ
	DUP-02-082819		Non-COC VOCs[1]			R
			COC VOCs[2]			J-/UJ
	MW-17-082819		Non-COC VOCs[1]			R
			COC VOCs[2]			J-/UJ
FA67699	MW-16-082919	8260B	Non-COC VOCs[1]	> 6mm headspace	No headspace	R
			COC VOCs[2]			J-/UJ
	TB-083019-02		All VOCs			J-/R

Lab packages reviewed: FA67623, FA67699, and FA67669R

Table 2
Samples with Exceeded Preservation Requirements
August 2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Sample ID	Method	Affected Compound	Preservation Condition	Limits	ERM Qualifier

Notes:

1 = Non-COC VOCs are 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 4-Chlorotoluene, 4-Isopropyltoluene, 4-Methyl-2-pentanone, Acetone, Bromobenzene, Bromodichloromethane, Bromoform, Carbon tetrachloride, Chlorobenzene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Ethylene dibromide, Isopropylbenzene, Methyl bromide, Methyl chloride, n-Butylbenzene, n-Hexane, n-Propylbenzene, o-Chlorotoluene, sec-Butylbenzene, Styrene, tert-Butylbenzene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, and Trichlorofluoromethane

2 = COC VOCs are 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trimethylbenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, Benzene, Chloroethane, Chloroform, cis-1,2-Dichloroethene, Ethylbenzene, m,p-Xylenes, Methylene chloride, o-Xylene, Tetrachloroethene, Toluene, Trichloroethene, and Vinyl chloride

J- = Detected results are estimated with a low bias

J-/R = Detected results are estimated, biased low; nondetected results are rejected

J-/UJ = Detected results are estimated with low bias; nondetected results are estimated at the report limit

R = Nondetected results are rejected

mm = Millimeters

Table 3
Blank and Associated Suspect Sample Detections
August 2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Blank ID	Associated Sample	Detected Compound	Reported Concentration	Report Limit	Units	ERM Qualifier
FA67623	TRIP BLANK	--	Acetone	3.1	10	µg/L	--
		See below	Toluene	0.15	0.50	µg/L	--
		MW-01-082719	Toluene	0.27	0.50	µg/L	0.50 U
		MW-04-082719	Toluene	0.26	0.50	µg/L	0.50 U
		MW-19-082619	Toluene	0.22	0.50	µg/L	0.50 U
		MW-20-082819	Toluene	0.51	0.50	µg/L	J+
FA67669	TB-083019-02	--	Acetone	3.4	10	µg/L	J-[1]
		--	Toluene	0.18	0.50	µg/L	J-[1]

Lab packages reviewed: FA67623, FA67699, and FA67669R

Notes:
1 = Result qualified for sample preservation exceedance
J- = Detected results are estimated with a low bias
J+ = Detected results are estimated with a high bias
TB = Trip blank
U = Nondetected
UJ = Nondetected, estimated report limit
µg/L = Micrograms per liter

Table 4
Spike Recoveries Outside of Acceptable Limits
August 2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

Lab Package	Spike Sample ID	Associated Sample	Compound	Recovery (%)	Limit (%)	RPD	RPD Limit	Result	Units	ERM Qualifier
MS/MSD										
FA67623	MW-04-082719 MS/MSD Batch VE2197	MW-04-082719	Chloroethane	39/159	62-144	30	20	30.0	µg/L	J
			cis-1,3-Dichloropropene	72/71	75-118	1	23	ND	µg/L	UJ
			trans-1,3-Dichloropropene	80/79	80-120	1	22	ND	µg/L	--
			Styrene	70/73	78-119	4	23	ND	µg/L	UJ
FA67623 FA67699	MW-27-082819 MS/MSD VE2198	MW-27-082819	Bromoform	63/59	66-123	7	21	ND	µg/L	UJ
FA67623 FA67699 FA67699R	MW-13-082819 MS/MSD VE2199	MW-13-082819	Bromoform	60/63	66-123	5	21	ND	µg/L	R[1]
			Chloroethane	167/175	62-144	5	20	33.7	µg/L	J[1]
			Dibromochloromethane	77/80	78-122	4	19	ND	µg/L	R[1]
			1,2,4-Trimethylbenzene	76/83	79-120	4	18	44.7	µg/L	J[1]

Lab packages reviewed: FA67623, FA67699, and FA67669R

Notes:
1 = Result qualified for sample preservation exceedance
J = Estimated detection with no bias
MS/MSD - Matrix spike/matrix spike duplicate
ND = Not detected
RPD = Relative percent difference
µg/L = Micrograms per liter
UJ = Nondetected, estimated report limit
R = Nondetected results are rejected

Table 5
Field Duplicate Results and Calculated Relative Percent Differences
August 2019 Groundwater Samples
Univar USA, Inc.
Kent, Washington

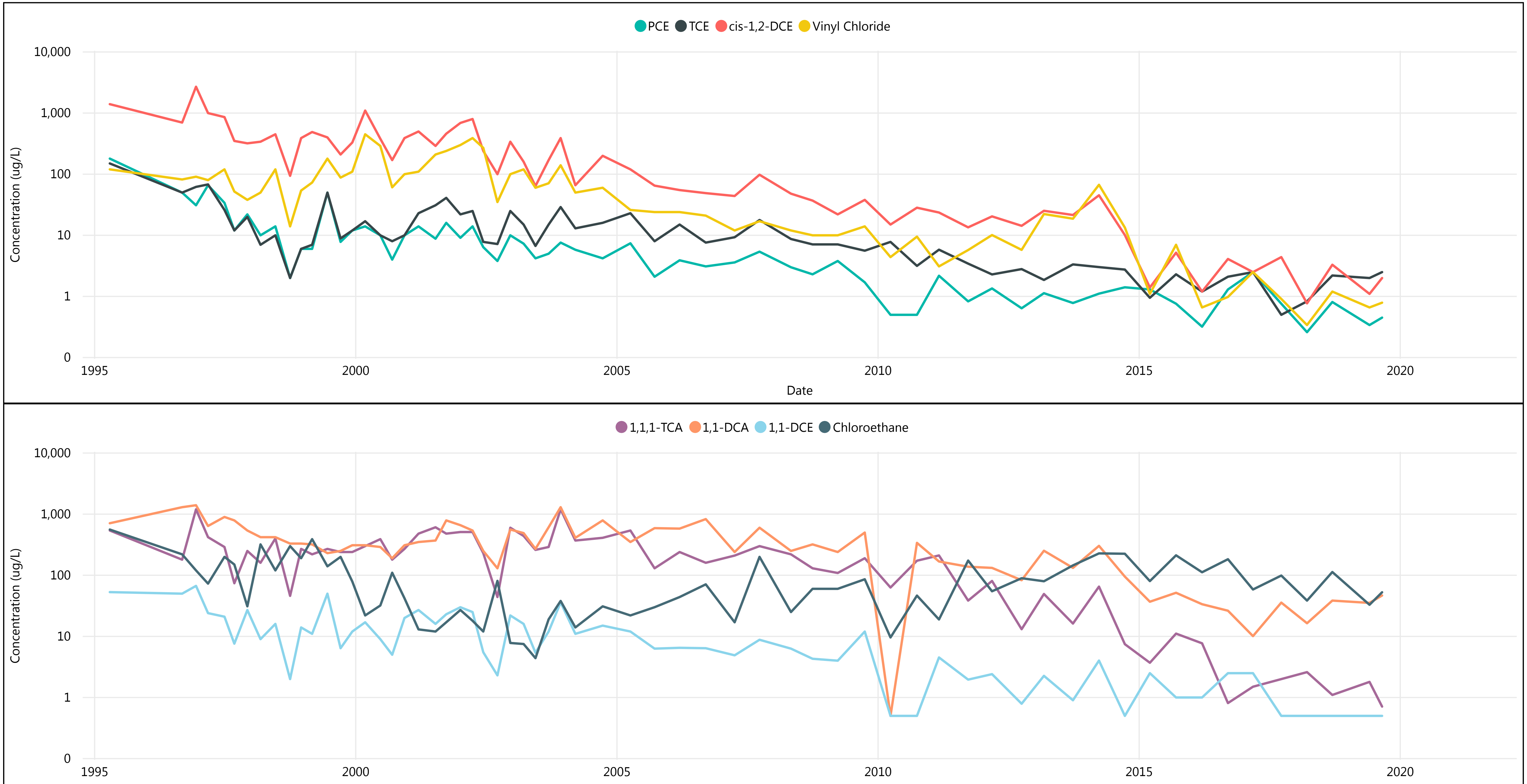
Lab Package	Primary/Duplicate Sample ID	Compound	Concentration		Report Limit		Units	RPD
			Sample	Duplicate	Sample	Duplicate		
FA67623	MW-17-082819 / DUP-02-082819	Chloroethane	171	203	5.0	5.0	µg/L	17
		Toluene	0.82	ND	2.5	2.5	µg/L	NC
		m,p-Xylenes	1.4	1.3	5.0	5.0	µg/L	7.4
		Benzene	9.3	9.2	2.5	2.5	µg/L	1.1
FA67623 FA67699	MW-12-082719 / DUP-01-082719	Tetrachloroethene	29.0	26.6	5.0	2.5	µg/L	8.6
		cis-1,2-Dichloroethene	252	240	5.0	2.5	µg/L	4.9
		trans-1,2-Dichloroethene	1.3	1.4	5.0	2.5	µg/L	7.4
		Vinyl chloride	10	9.0	5.0	2.5	µg/L	11
		Methylene chloride	13.6	ND	20	5.0	µg/L	NC
		Trichloroethene	10.1	9.2	5.0	2.5	µg/L	9.3

Lab packages reviewed: FA67623, FA67699, and FA67669R

Notes:
RPD = Relative percent difference
µg/L = Micrograms per liter
ND = Not detected
NC = Not calculated, one result not detected

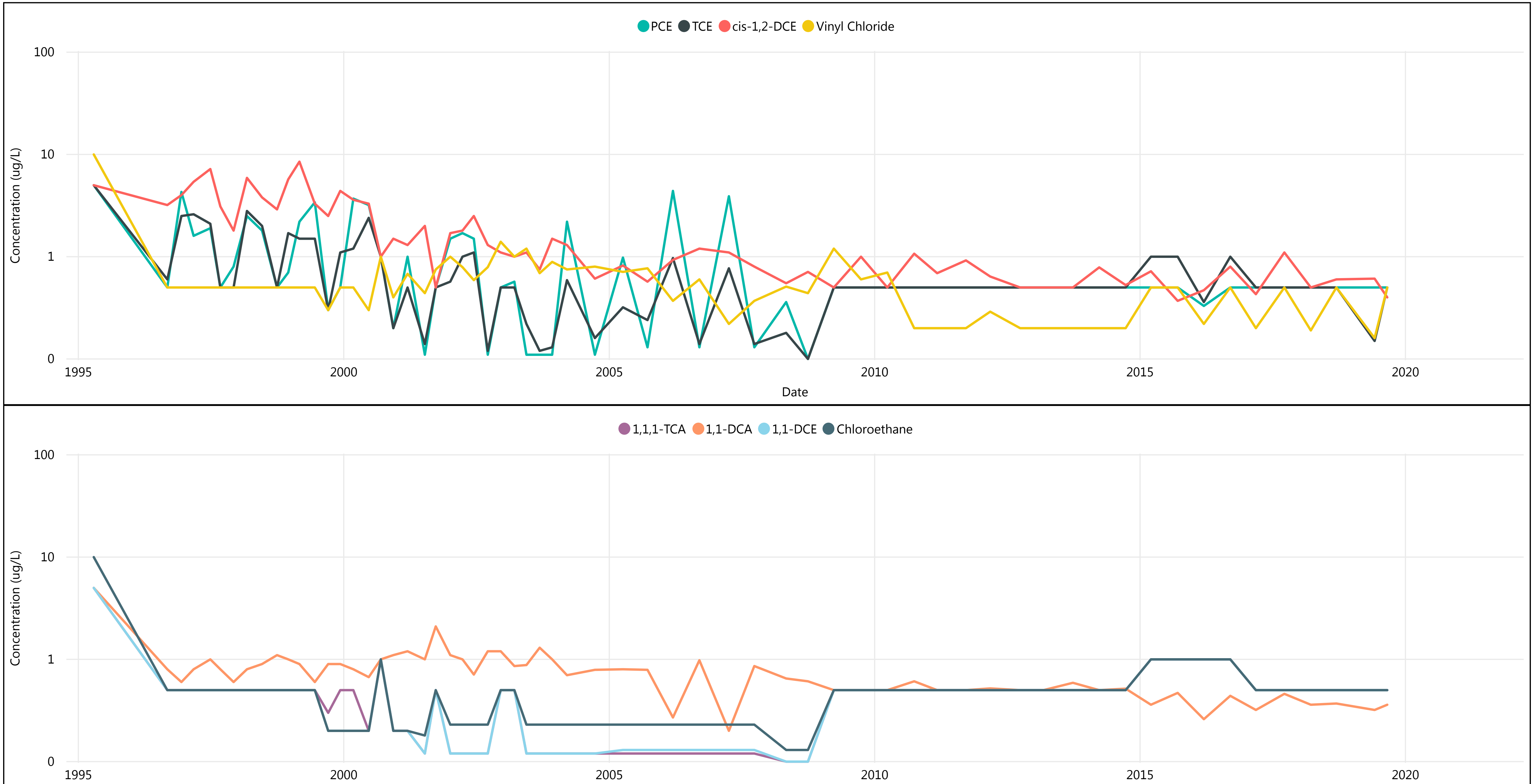
APPENDIX F TREND CHARTS

Figure F1. On-site VOC Trend Charts (MW-1)



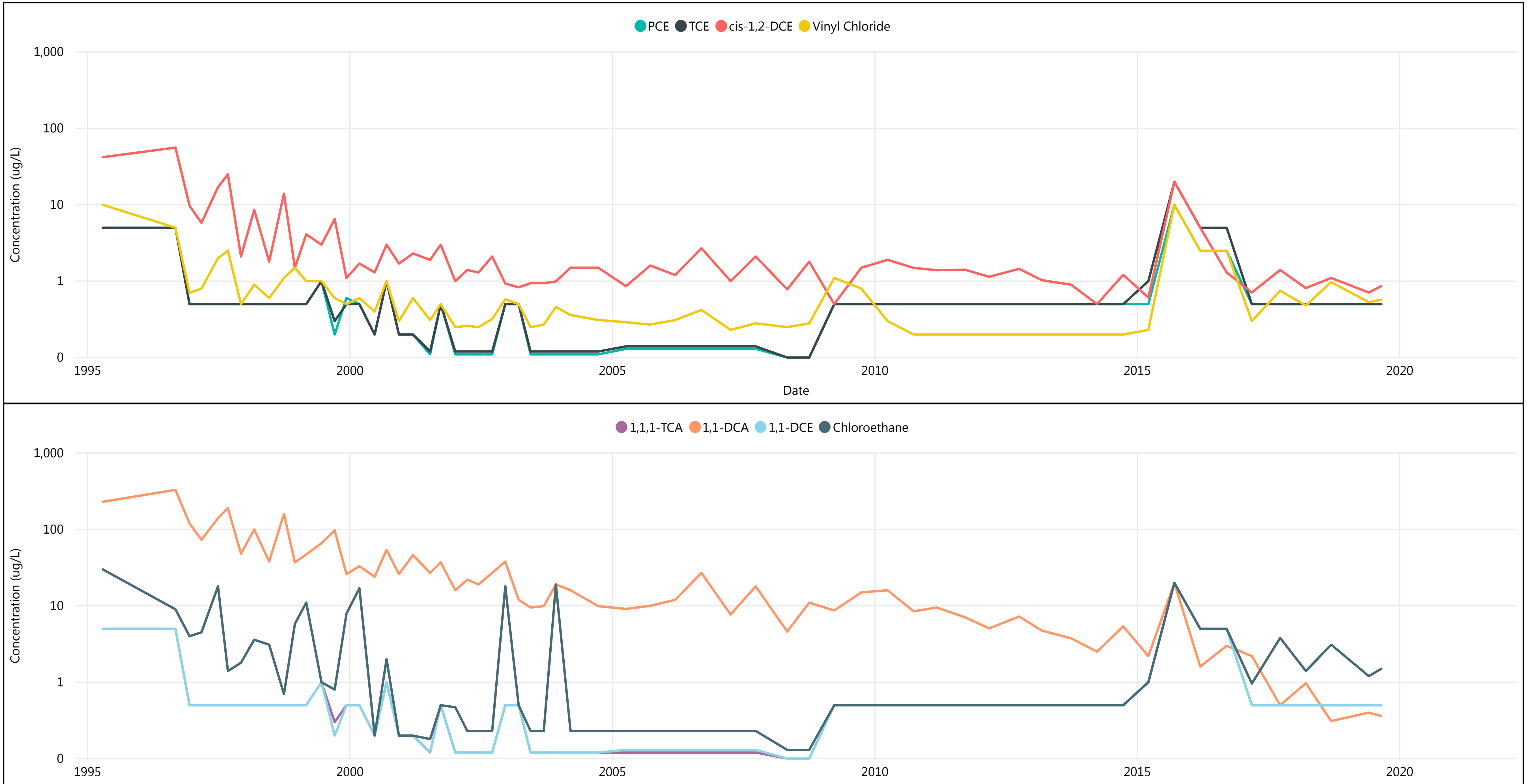
Notes: Shallow and deep injection conducted March - May 2011.

Figure F2. Boundary VOC Trend Charts (MW-2)



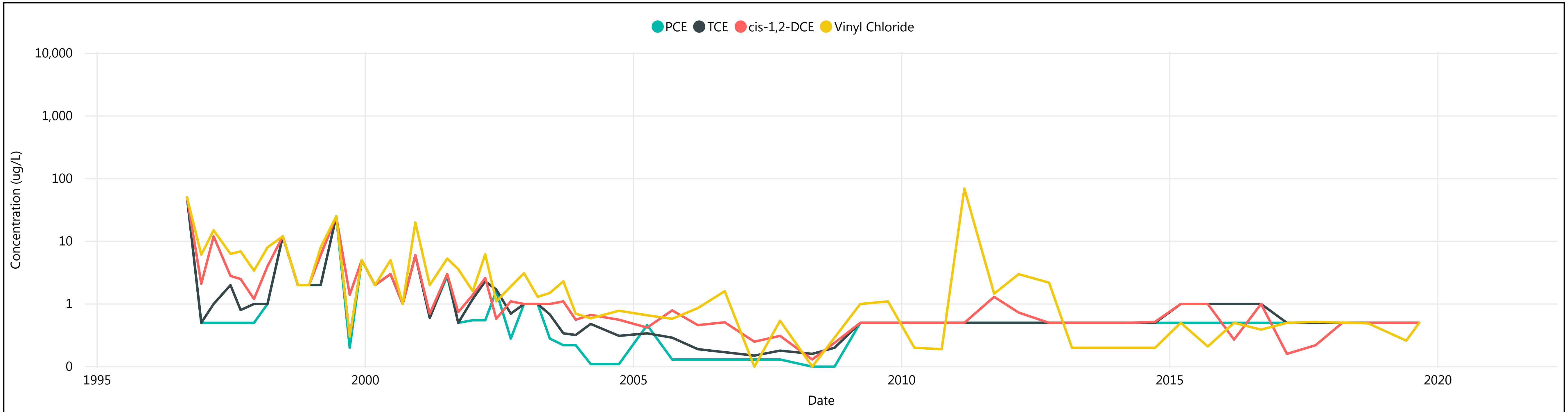
Notes: Shallow and deep injection conducted March - May 2011.

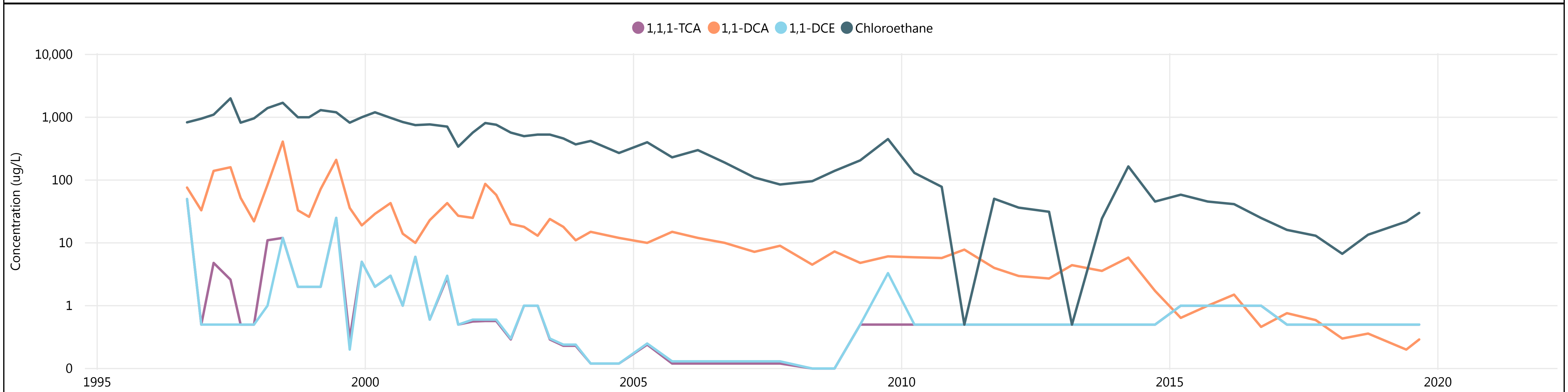
Figure F3. On-site VOC Trend Charts (MW-3)



Notes: Shallow and deep injection conducted March - May 2011.

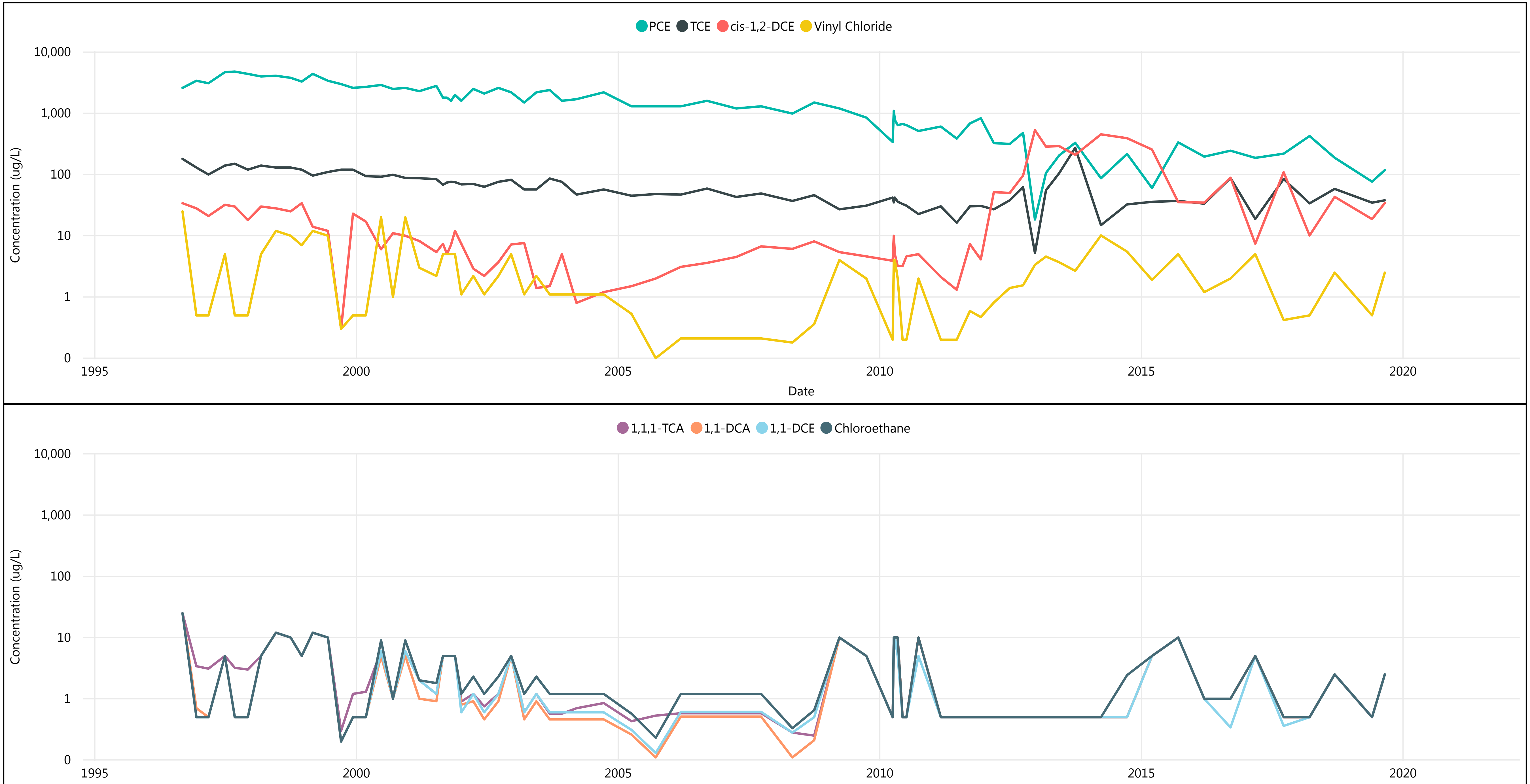
Figure F4. On-site VOC Trend Charts (MW-4)





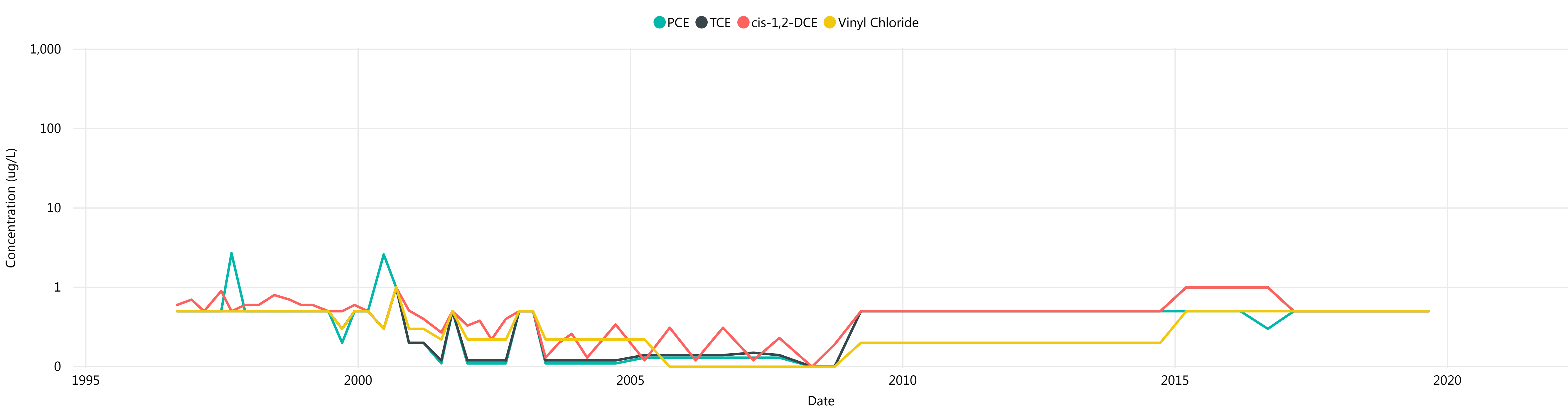
Notes: Shallow and deep injection conducted March - May 2011.

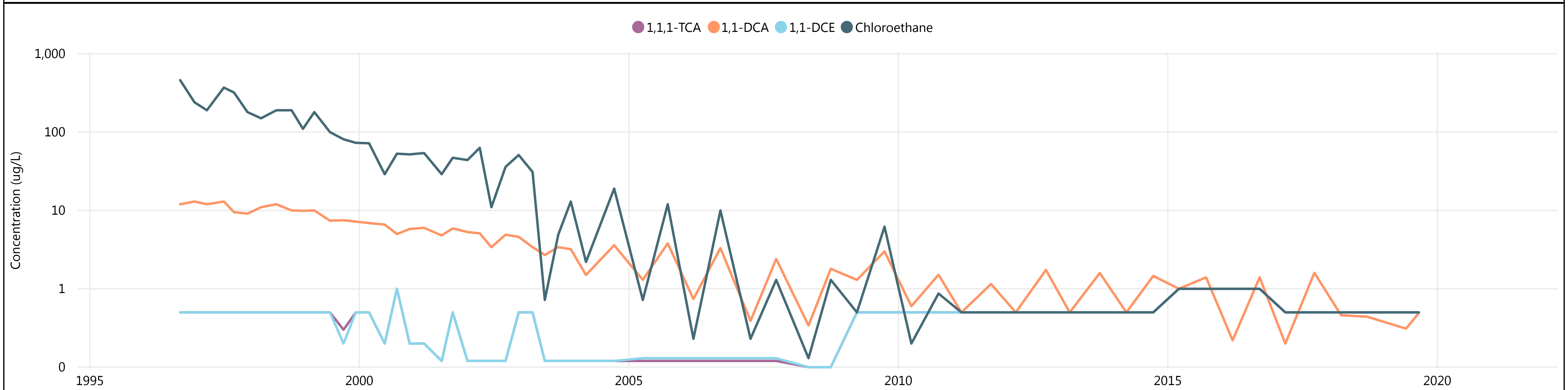
Figure F5. On-site VOC Trend Charts (MW-5)



Notes: Shallow and deep injection conducted March - May 2011.

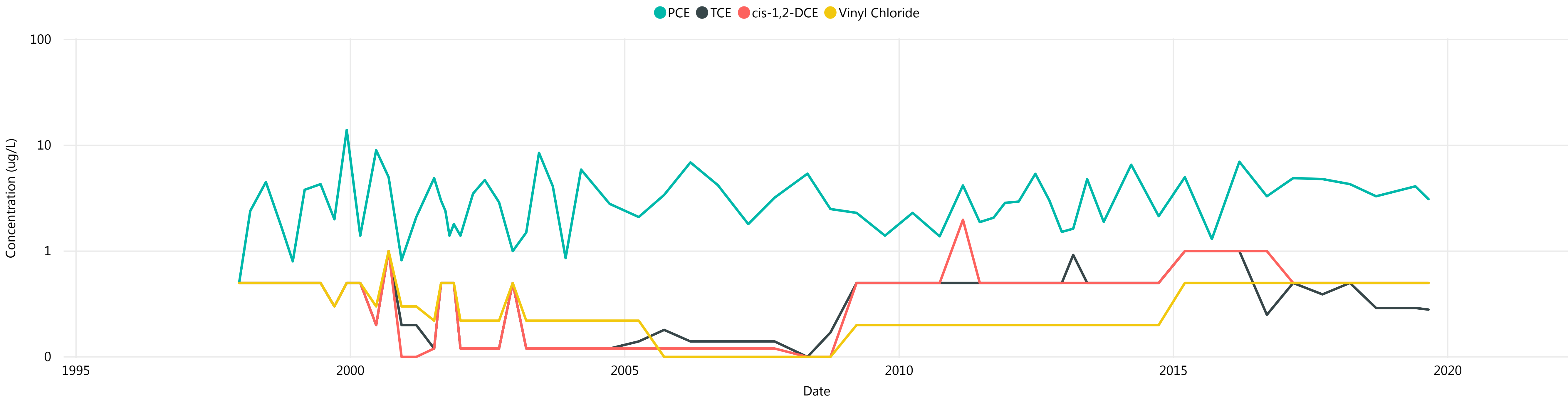
Figure F6. Boundary VOC Trend Charts (MW-6)

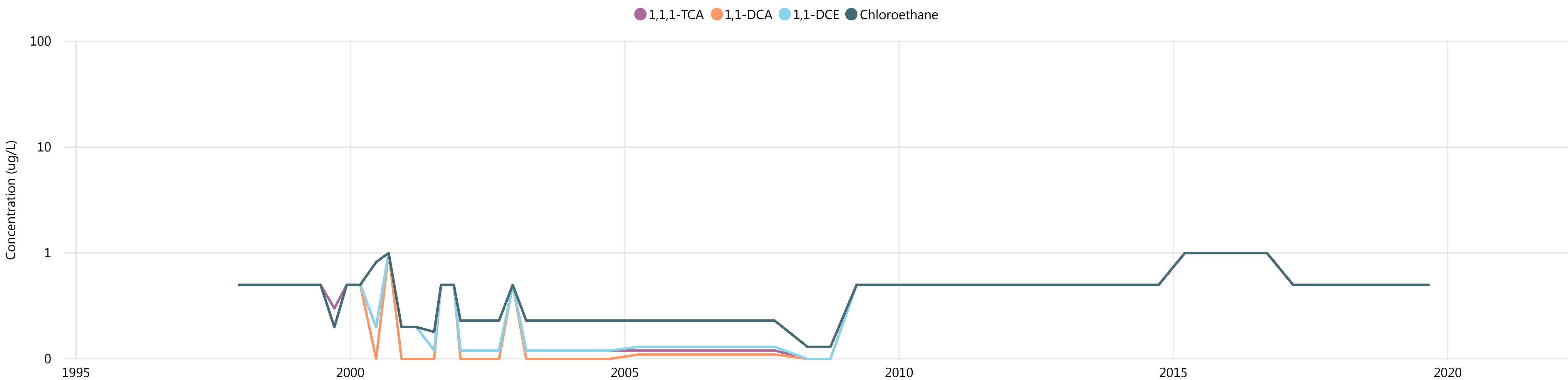




Notes: Shallow and deep injection conducted March - May 2011.

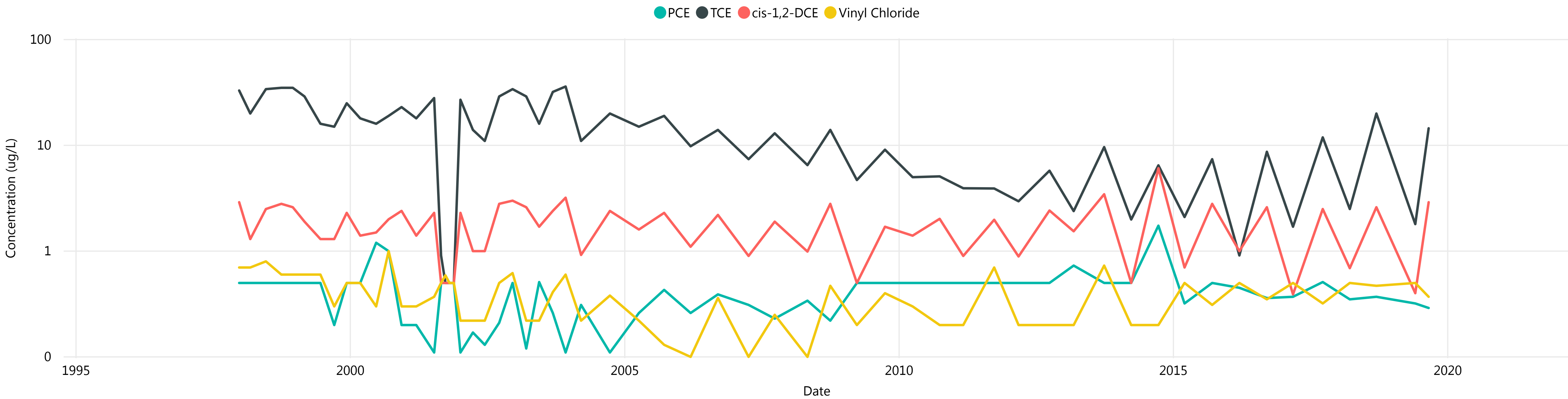
Figure F7. On-site VOC Trend Charts (MW-7)

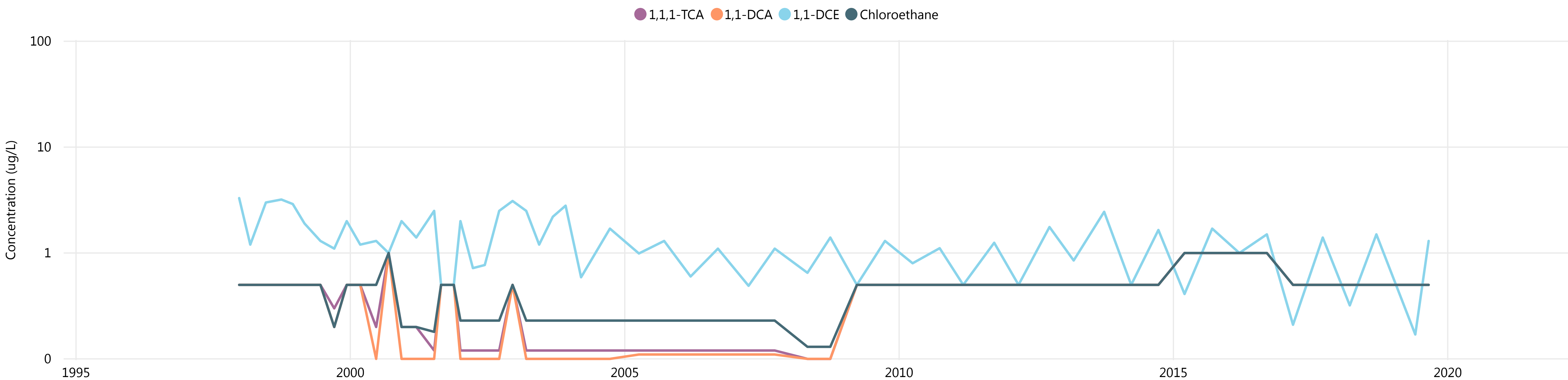




Notes: Shallow injection conducted March - May 2011.

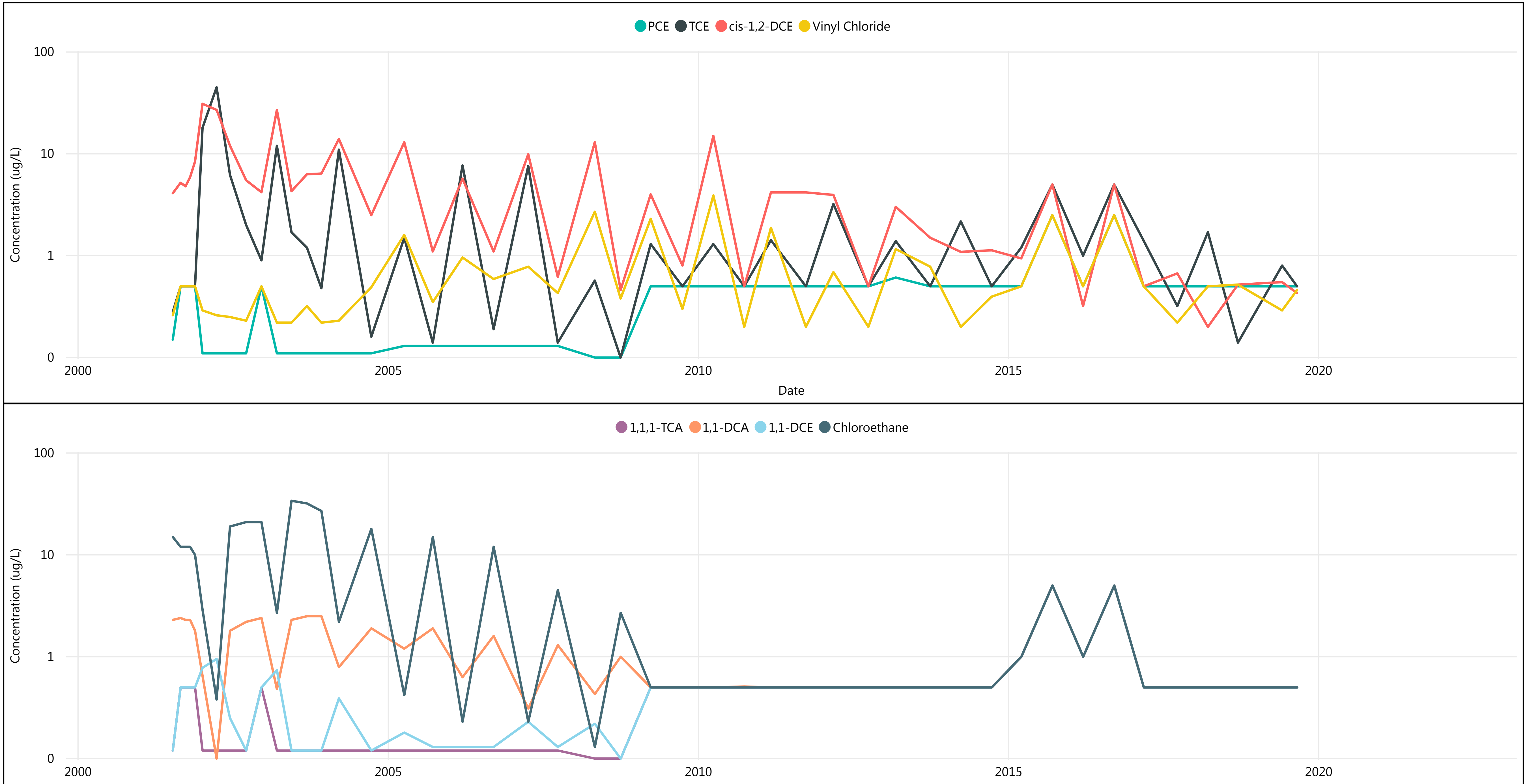
Figure F8. Boundary VOC Trend Charts (MW-8)





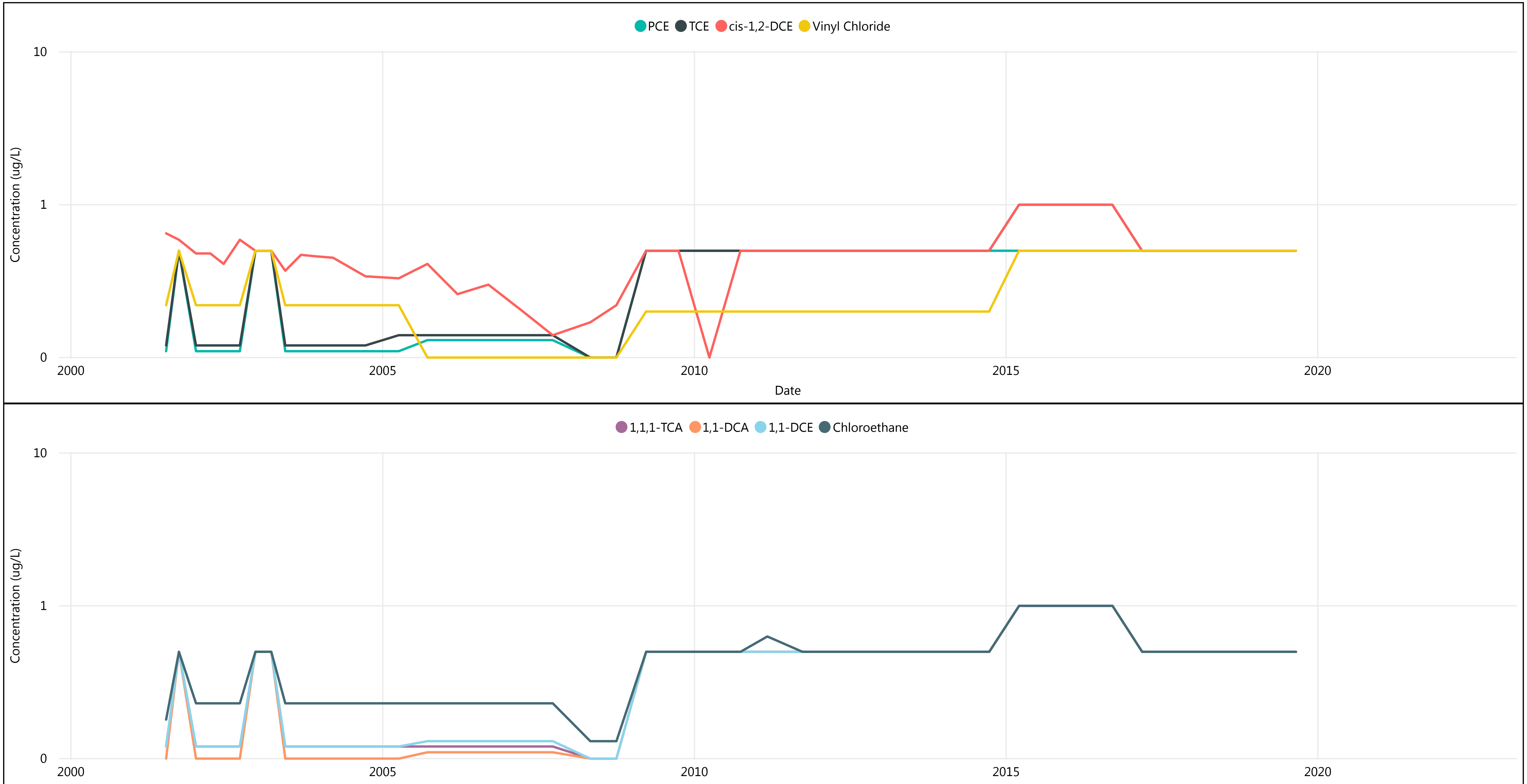
Notes: Shallow injection conducted March - May 2011.

Figure F9. Boundary VOC Trend Charts (MW-9)



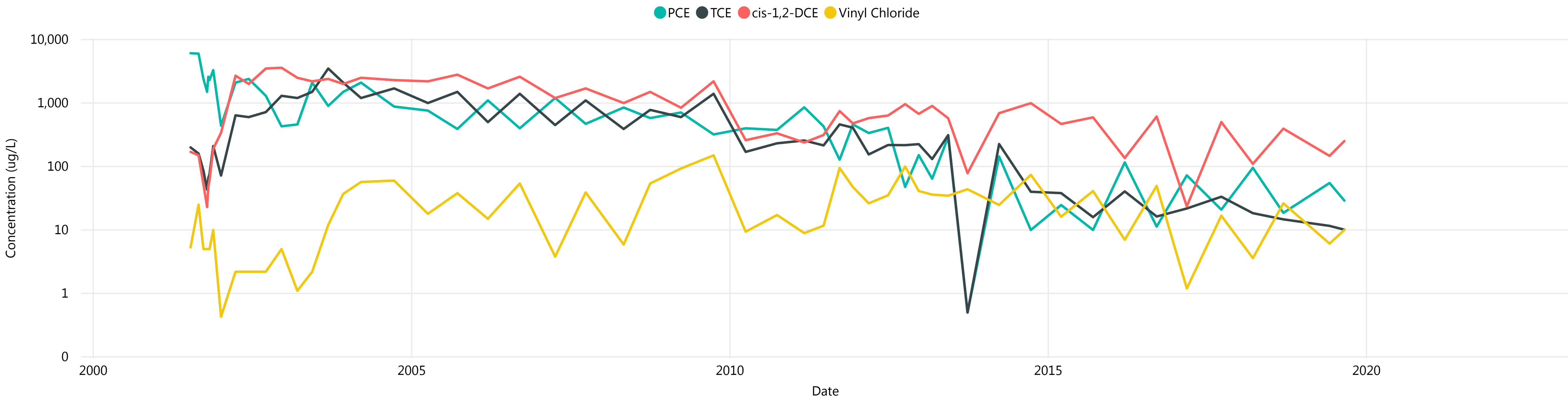
Notes: Shallow injection conducted March - May 2011.

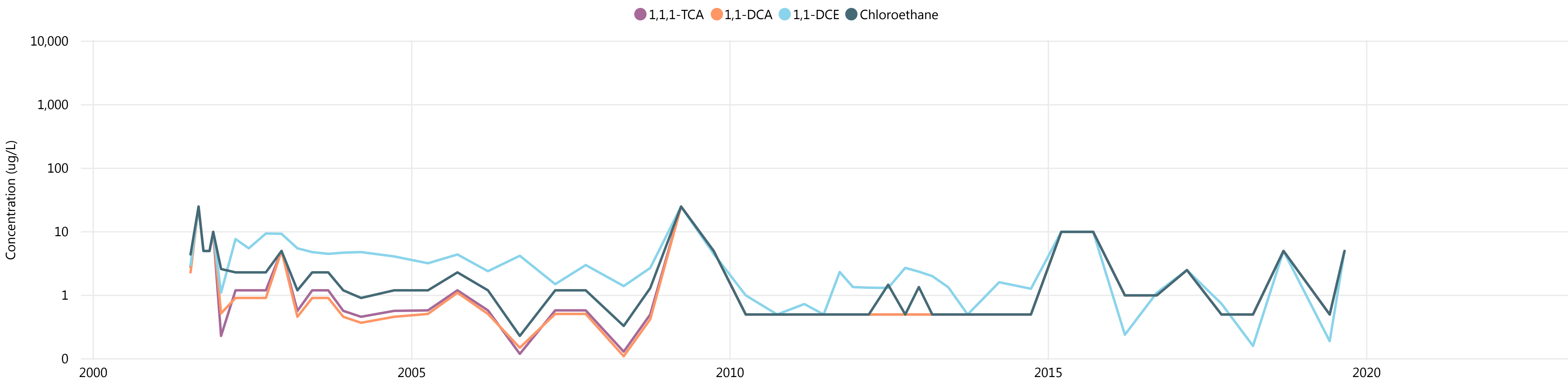
Figure F10. On-site VOC Trend Charts (MW-10)



Notes: Shallow injection conducted March - May 2011.

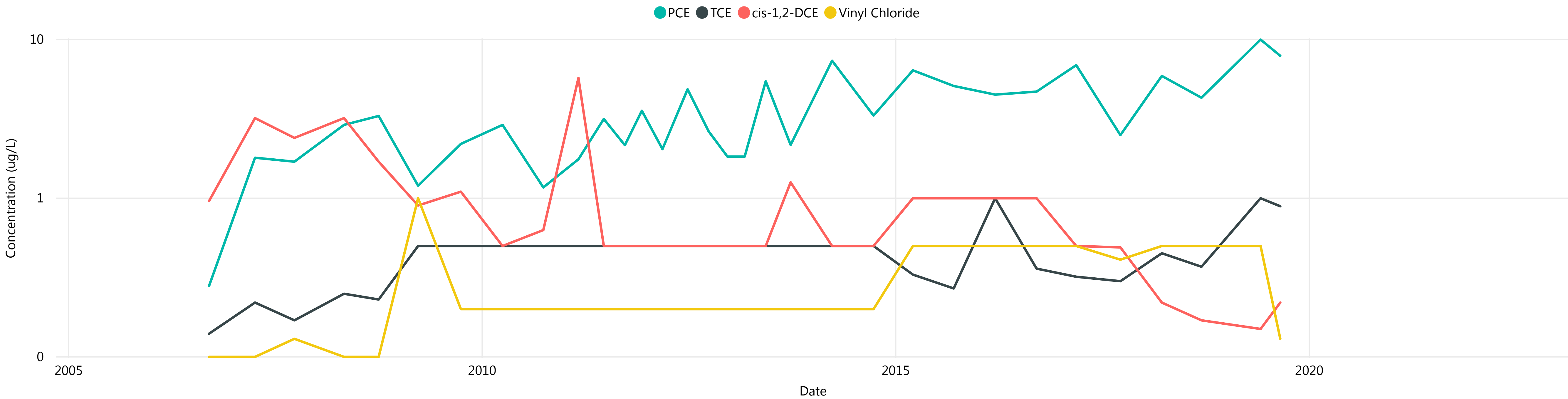
Figure F11. On-site VOC Trend Charts (MW-12)

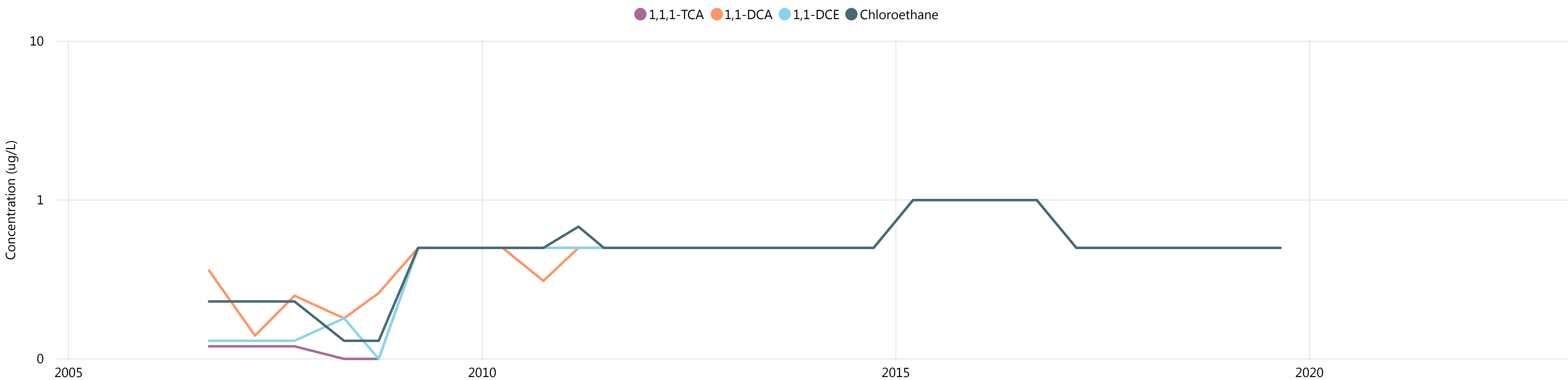




Notes: Shallow injection conducted March - May 2011.

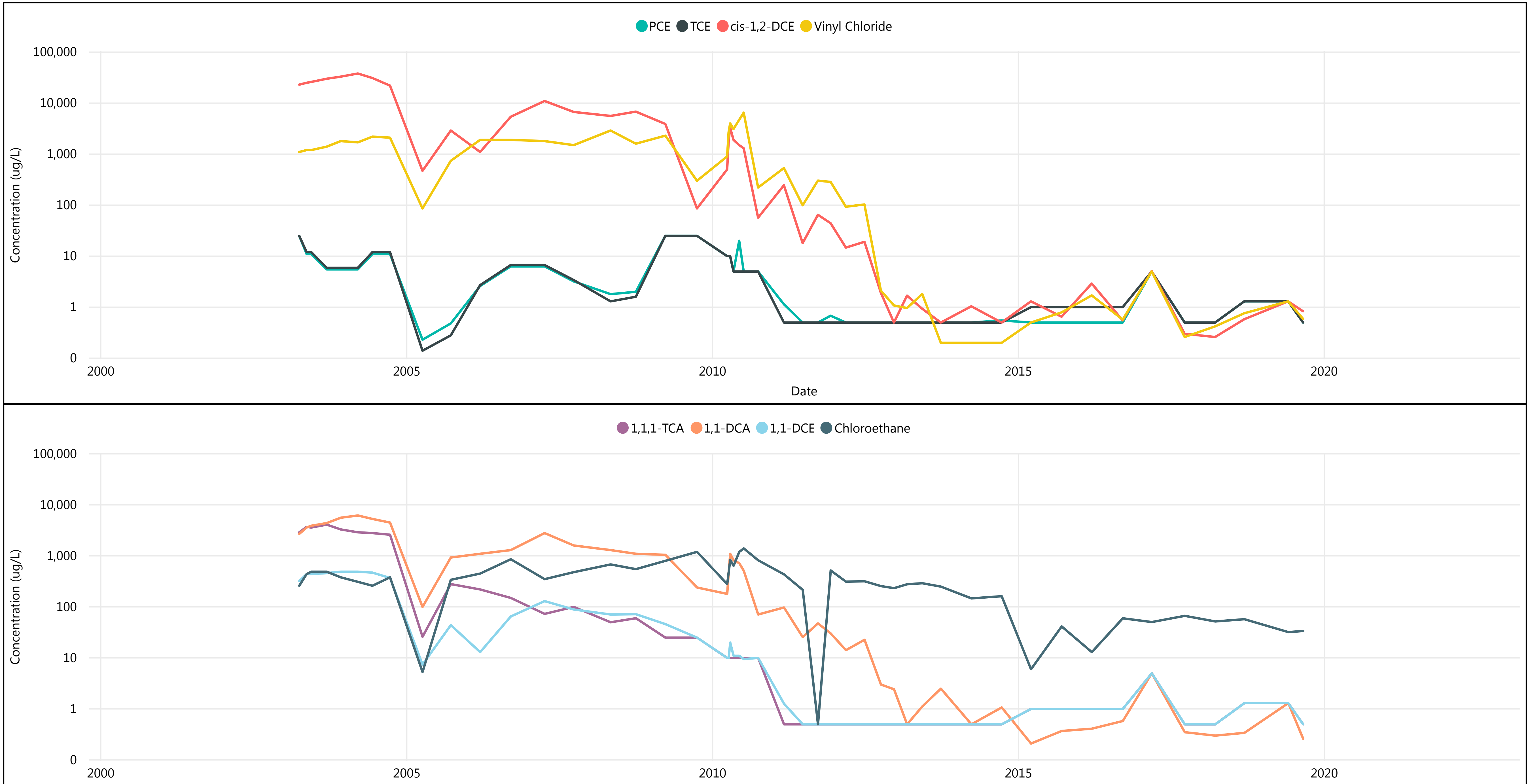
Figure F12. On-site VOC Trend Charts (MW-23)





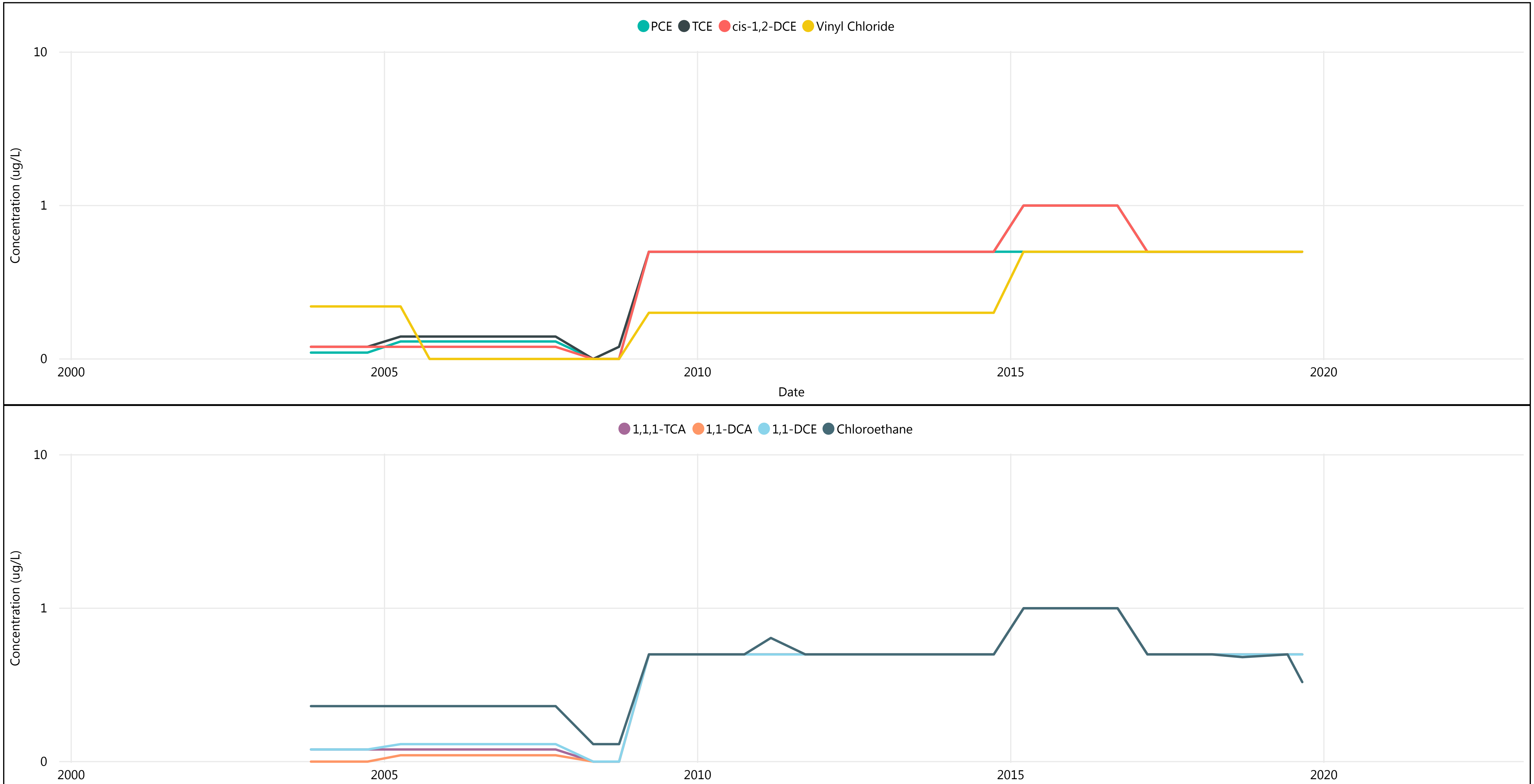
Notes: Shallow injection conducted March - May 2011.

Figure F13. On-site VOC Trend Charts (MW-13)



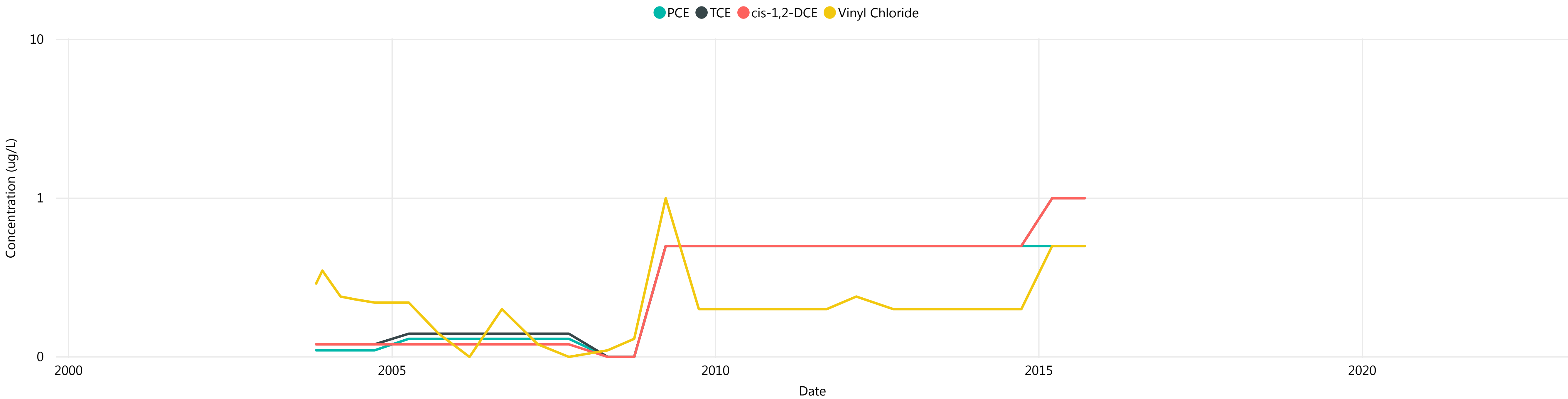
Notes: Deep injection conducted April and May 2011.

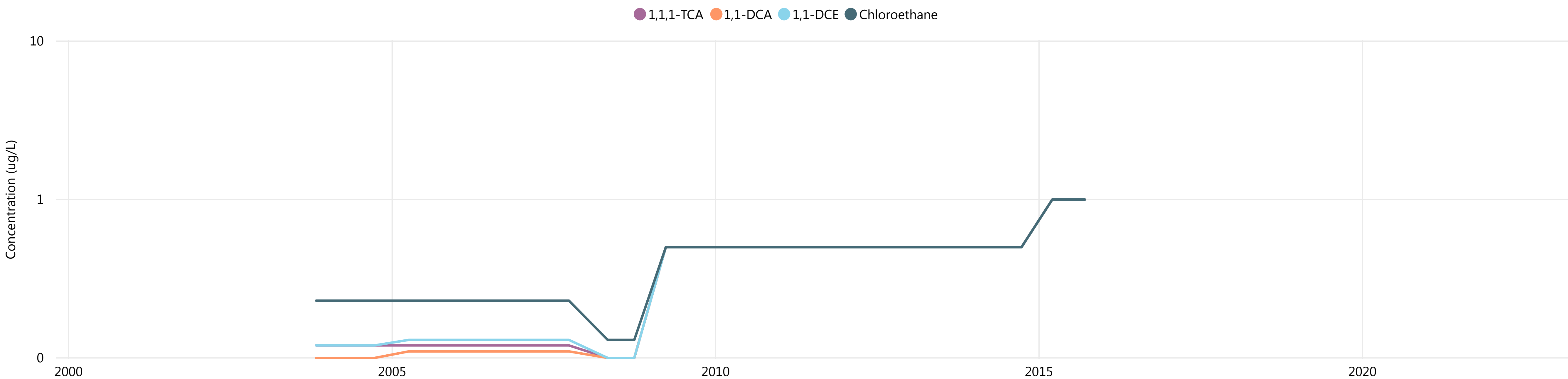
Figure F14. On-site VOC Trend Charts (MW-14)



Notes: Deep injection conducted April and May 2011.

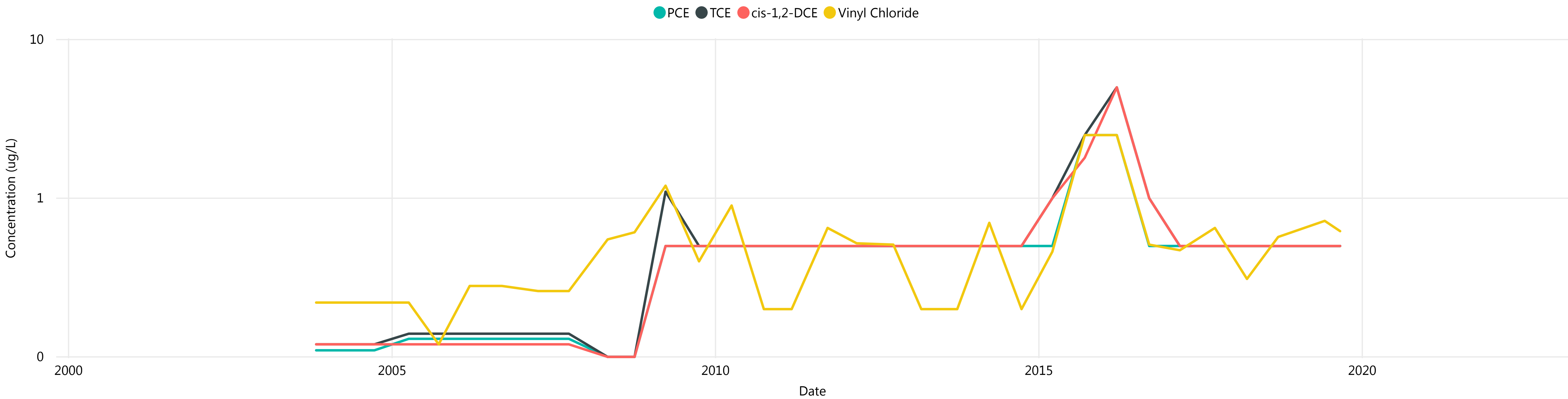
Figure F15. On-site VOC Trend Charts (MW-15)

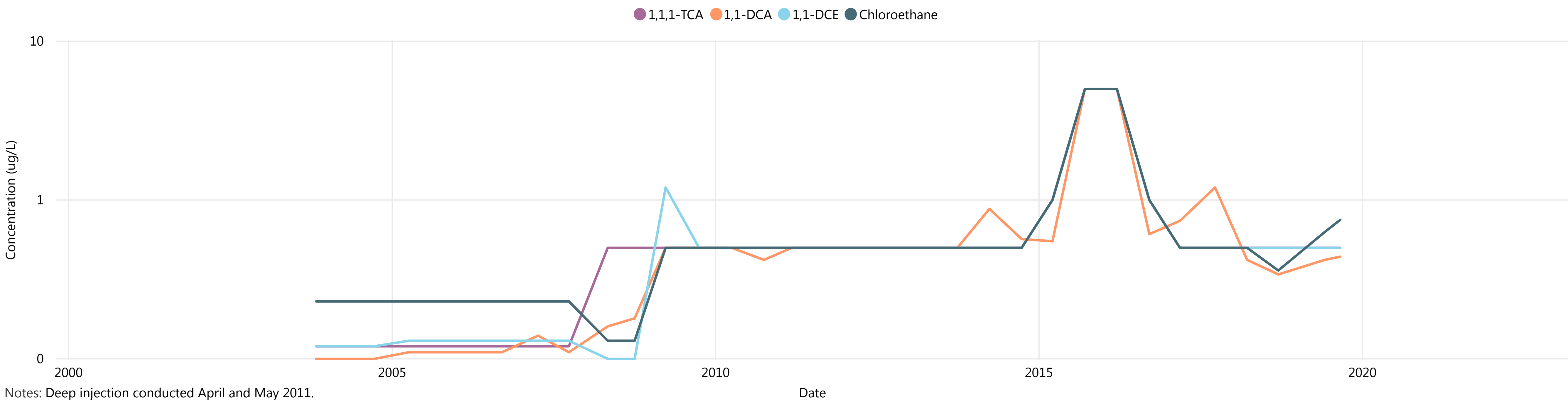




Notes: Deep injection conducted April and May 2011.

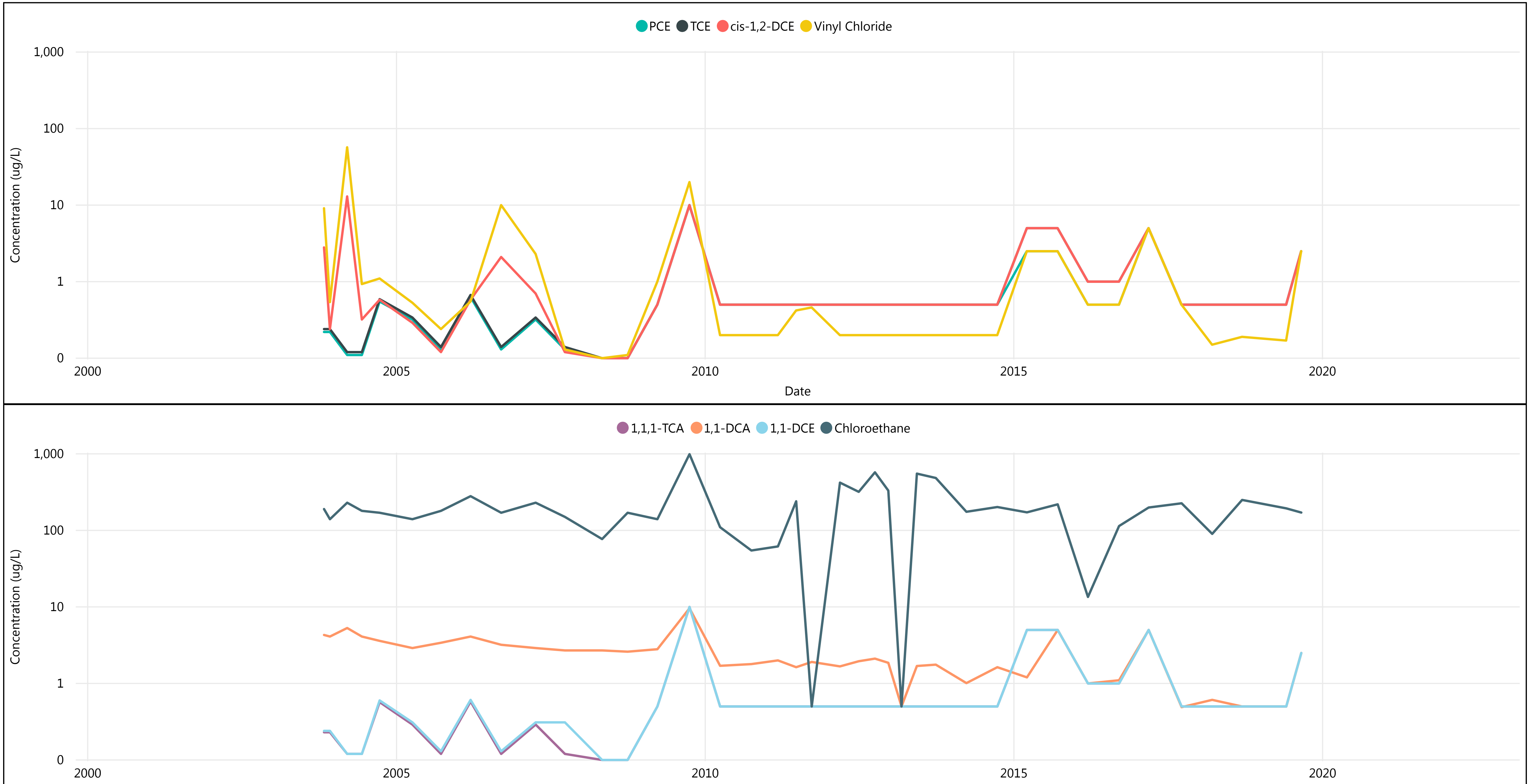
Figure F16. On-site VOC Trend Charts (MW-16)





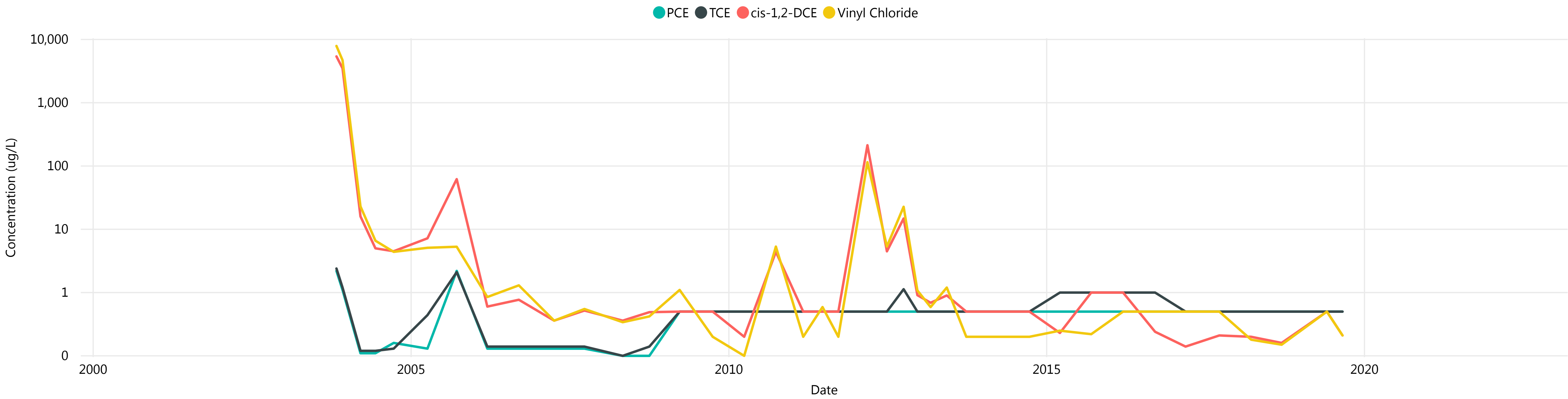
Notes: Deep injection conducted April and May 2011.

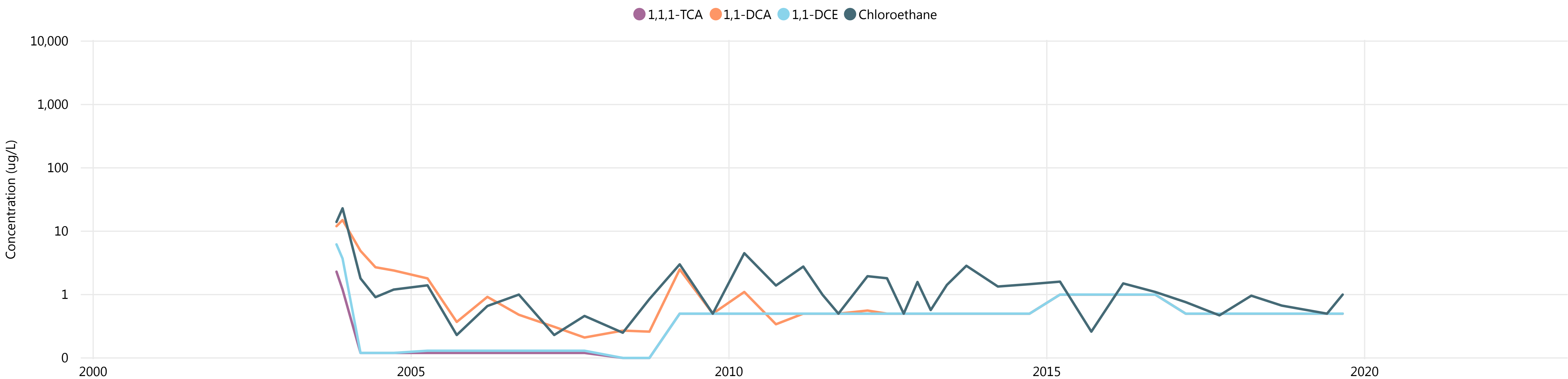
Figure F17. On-site VOC Trend Charts (MW-17)



Notes: Deep injection conducted April and May 2011.

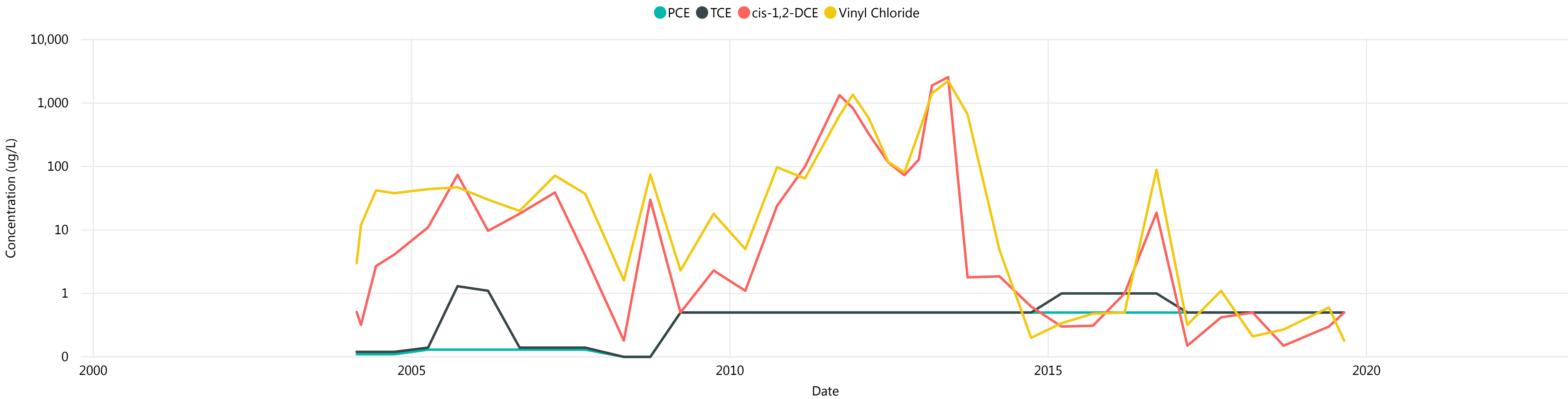
Figure F18. On-site VOC Trend Charts (MW-18)

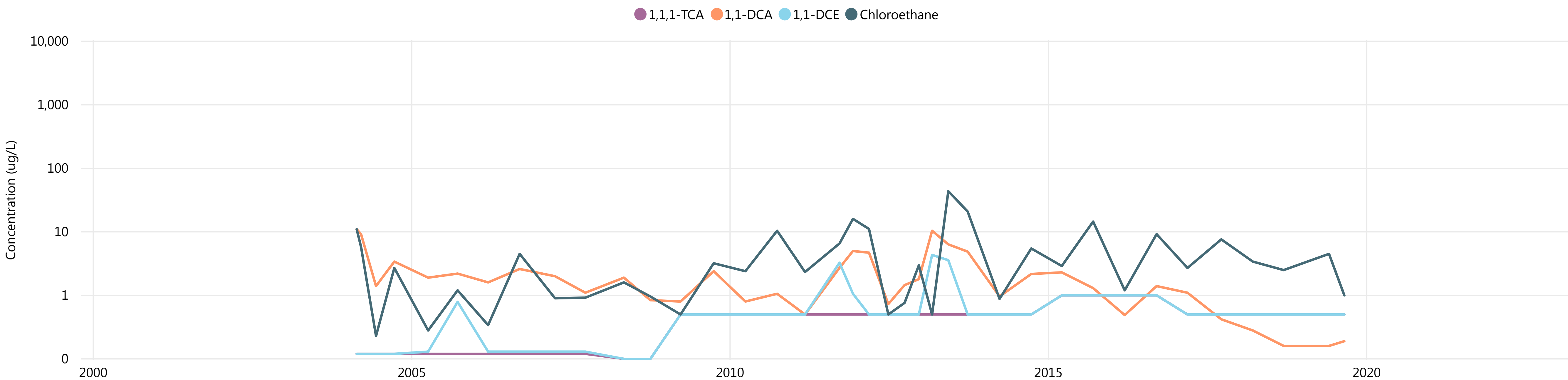




Notes: Deep injection conducted April and May 2011.

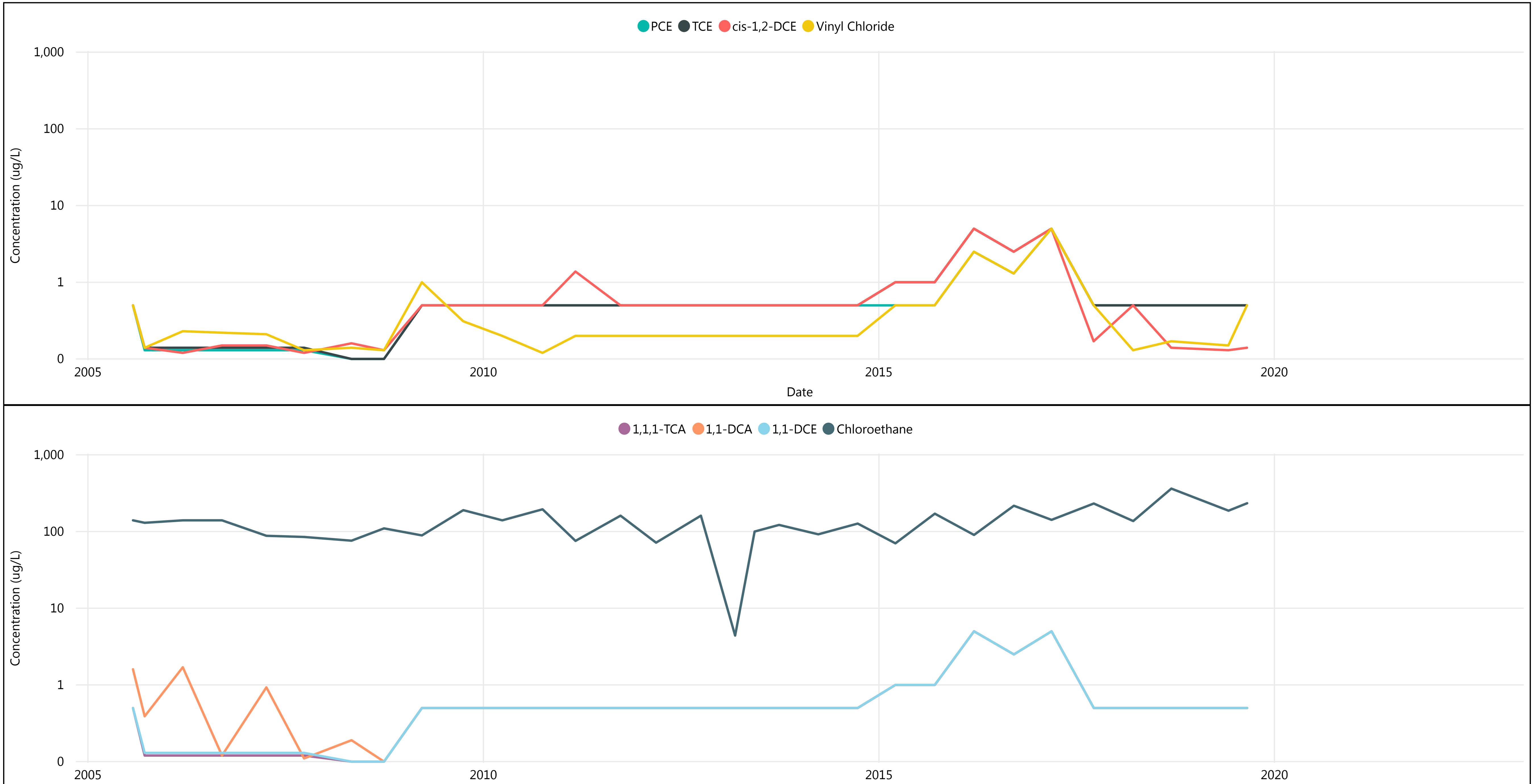
Figure F19. Boundary VOC Trend Charts (MW-19)





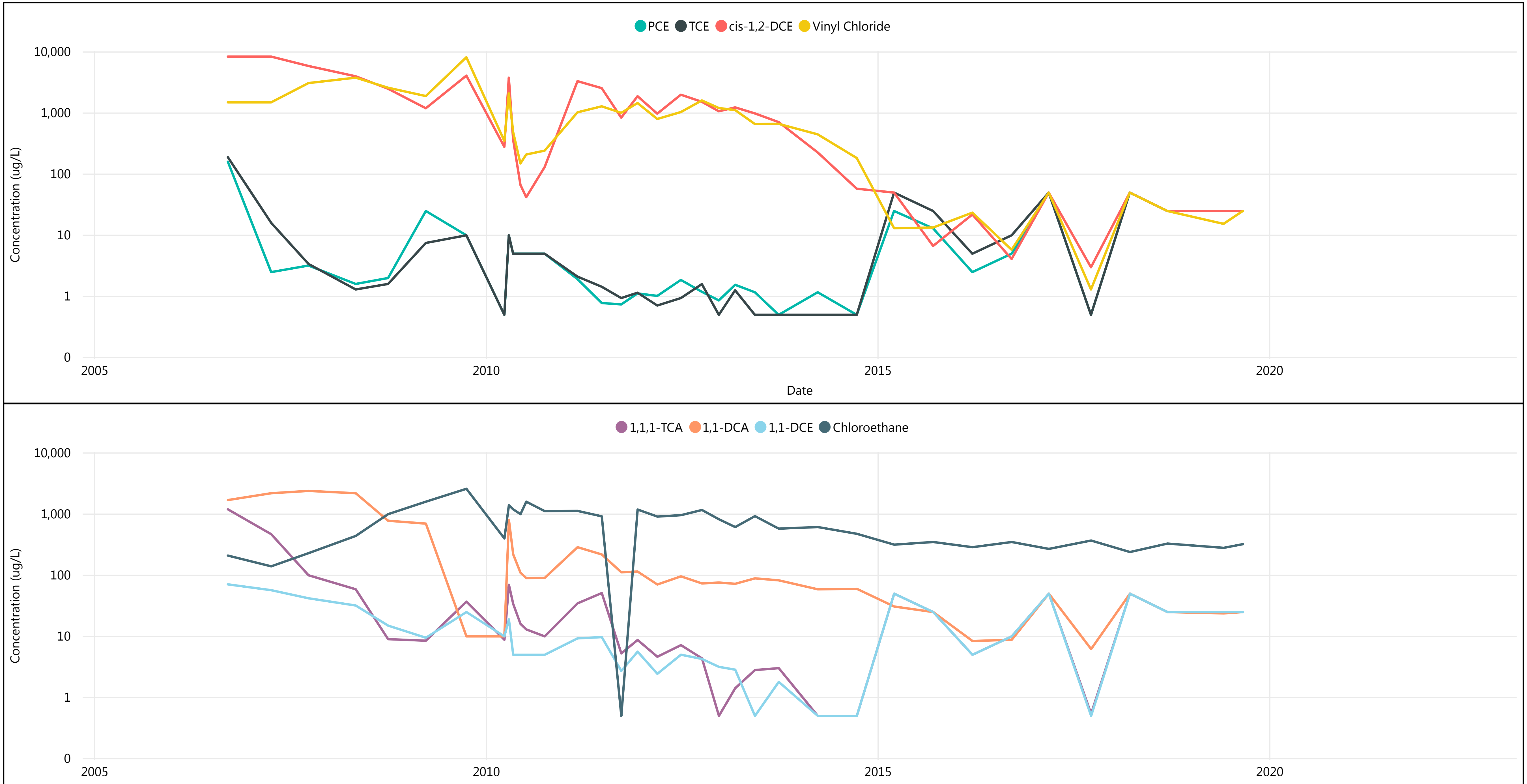
Notes: Deep injection conducted April and May 2011.

Figure F20. Off-site VOC Trend Charts (MW-20)



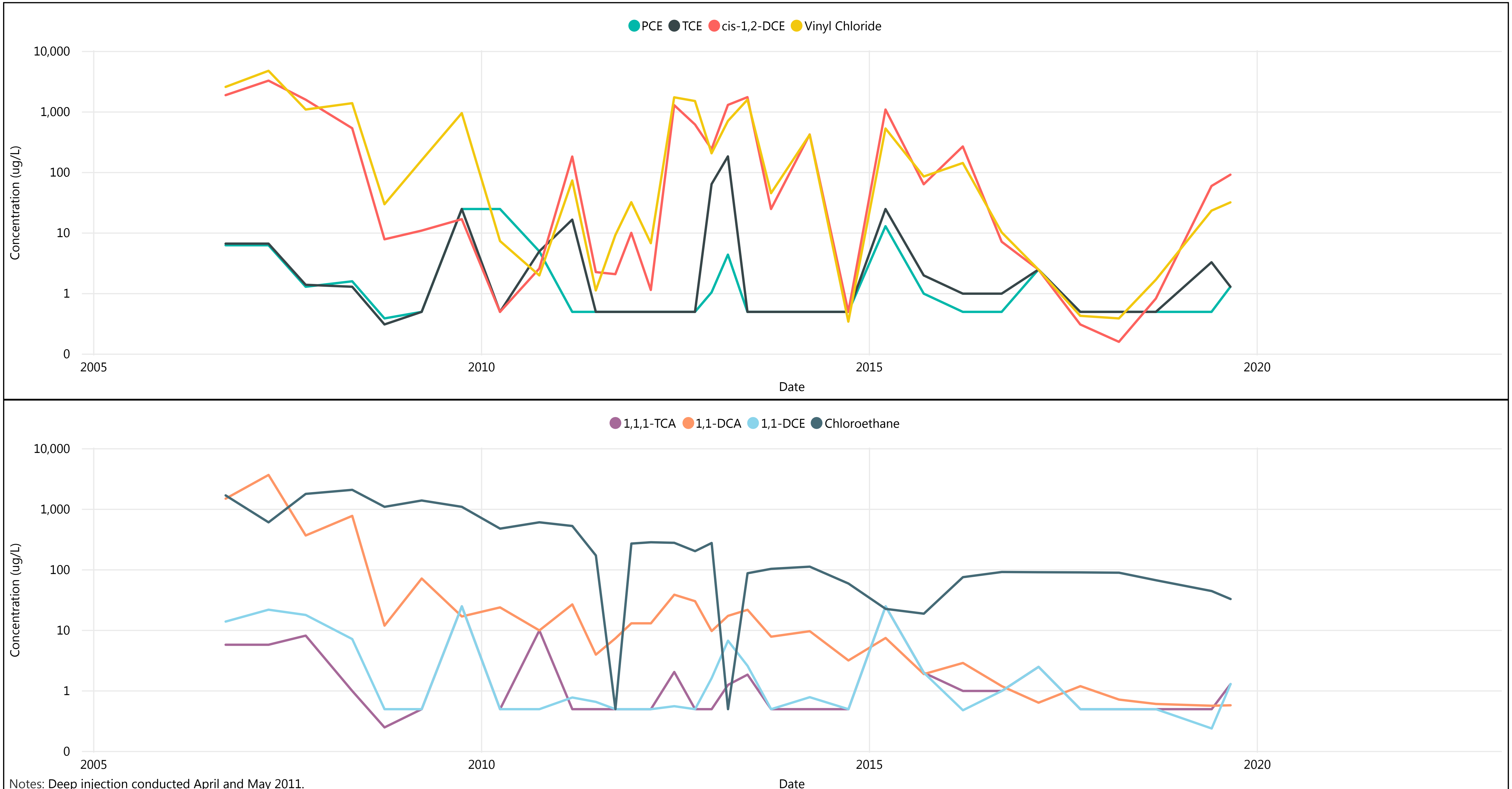
Notes: Deep injection conducted April and May 2011.

Figure F21. On-site VOC Trend Charts (MW-21)



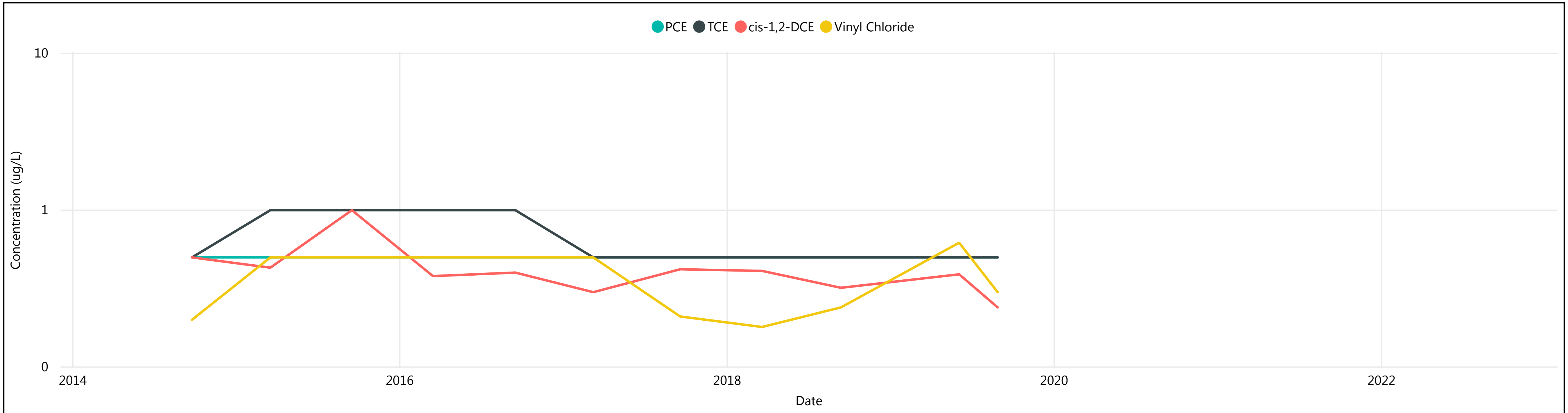
Notes: Deep injection conducted April and May 2011.

Figure F22. On-site VOC Trend Charts (MW-22)



Notes: Deep injection conducted April and May 2011.

Figure F23. Off-site VOC Trend Charts (MW-27)



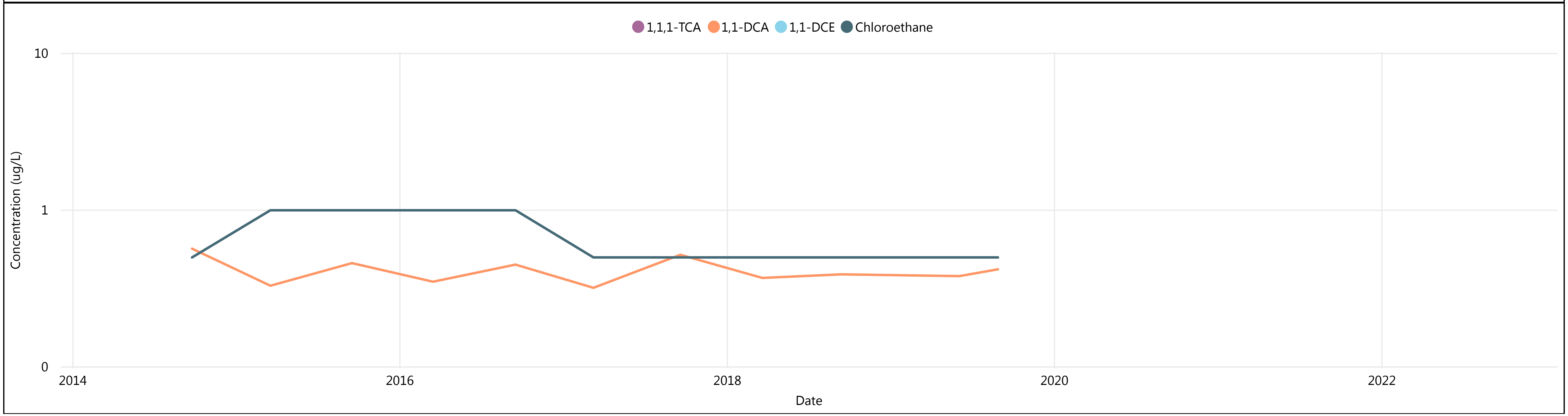
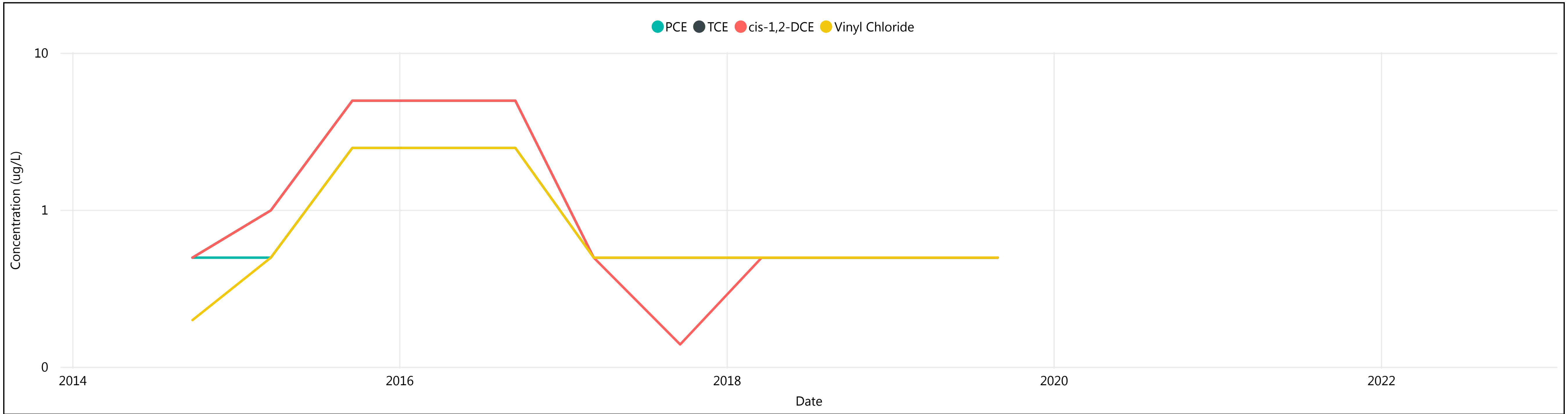


Figure F24. Boundary VOC Trend Charts (MW-28)



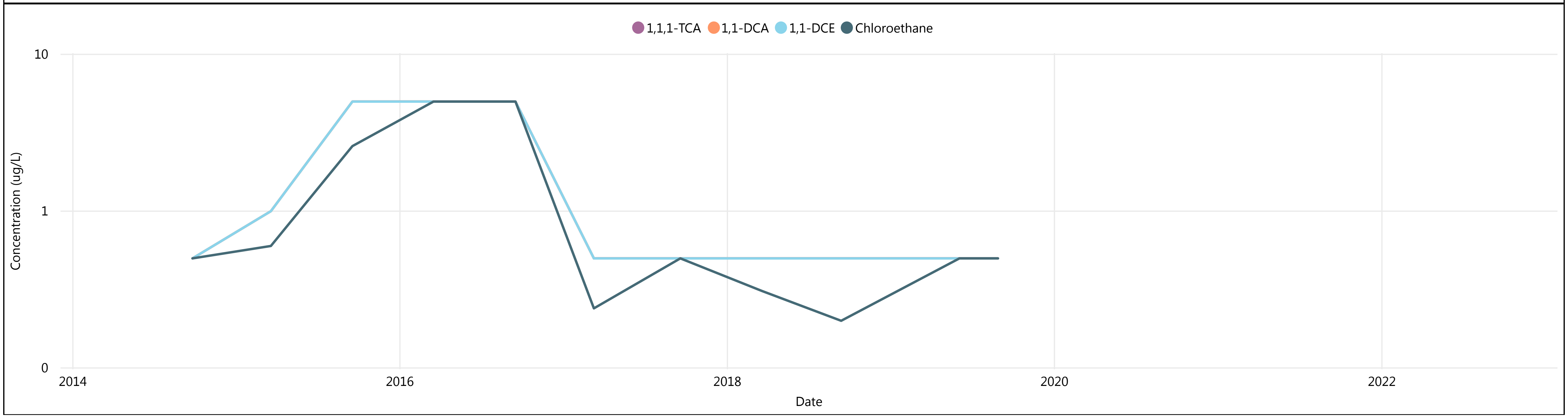


Figure F25. Off-site VOC Trend Charts (MW-29)

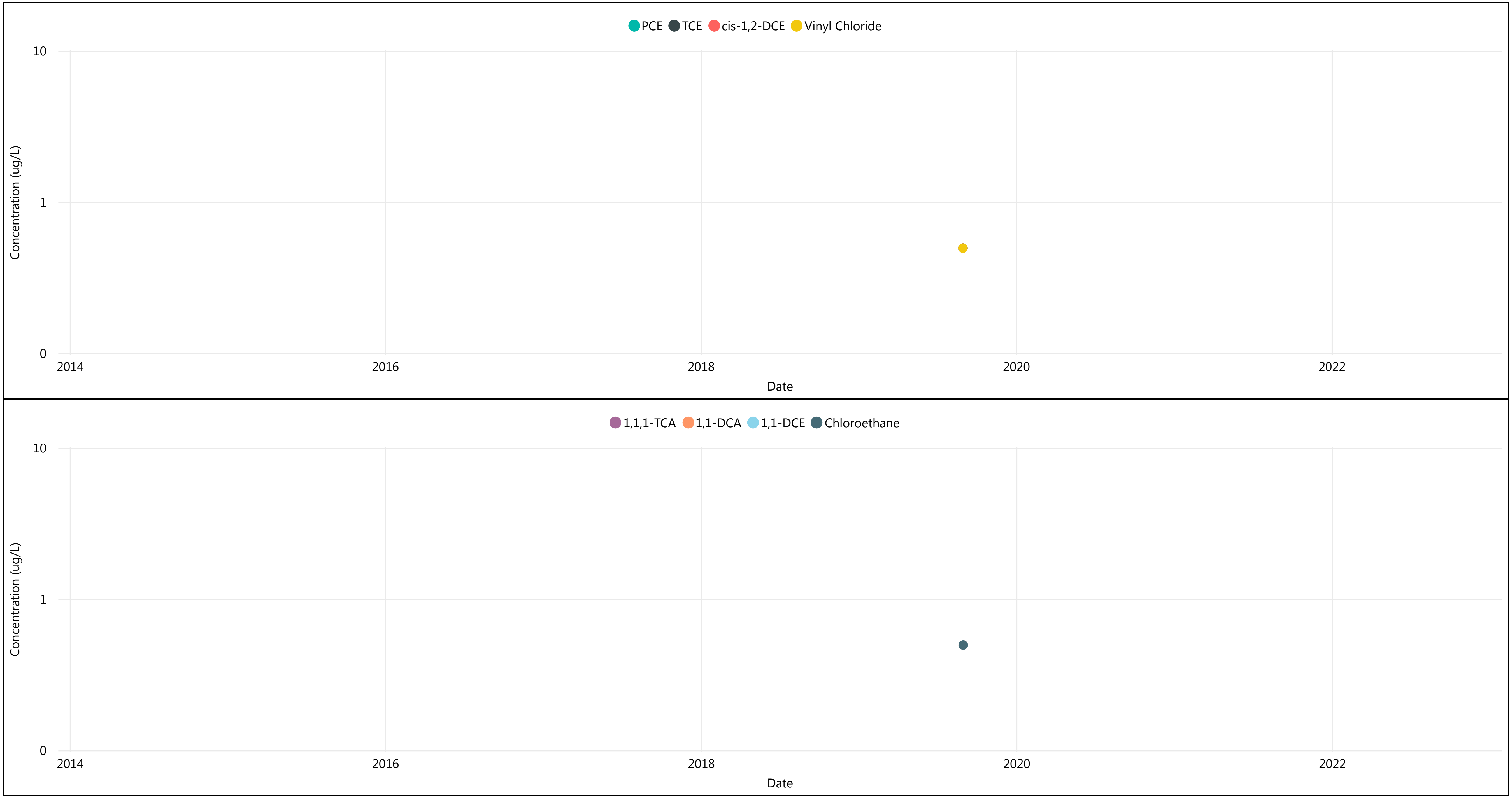


Figure F26. Benzene Deep Zone Trend Chart

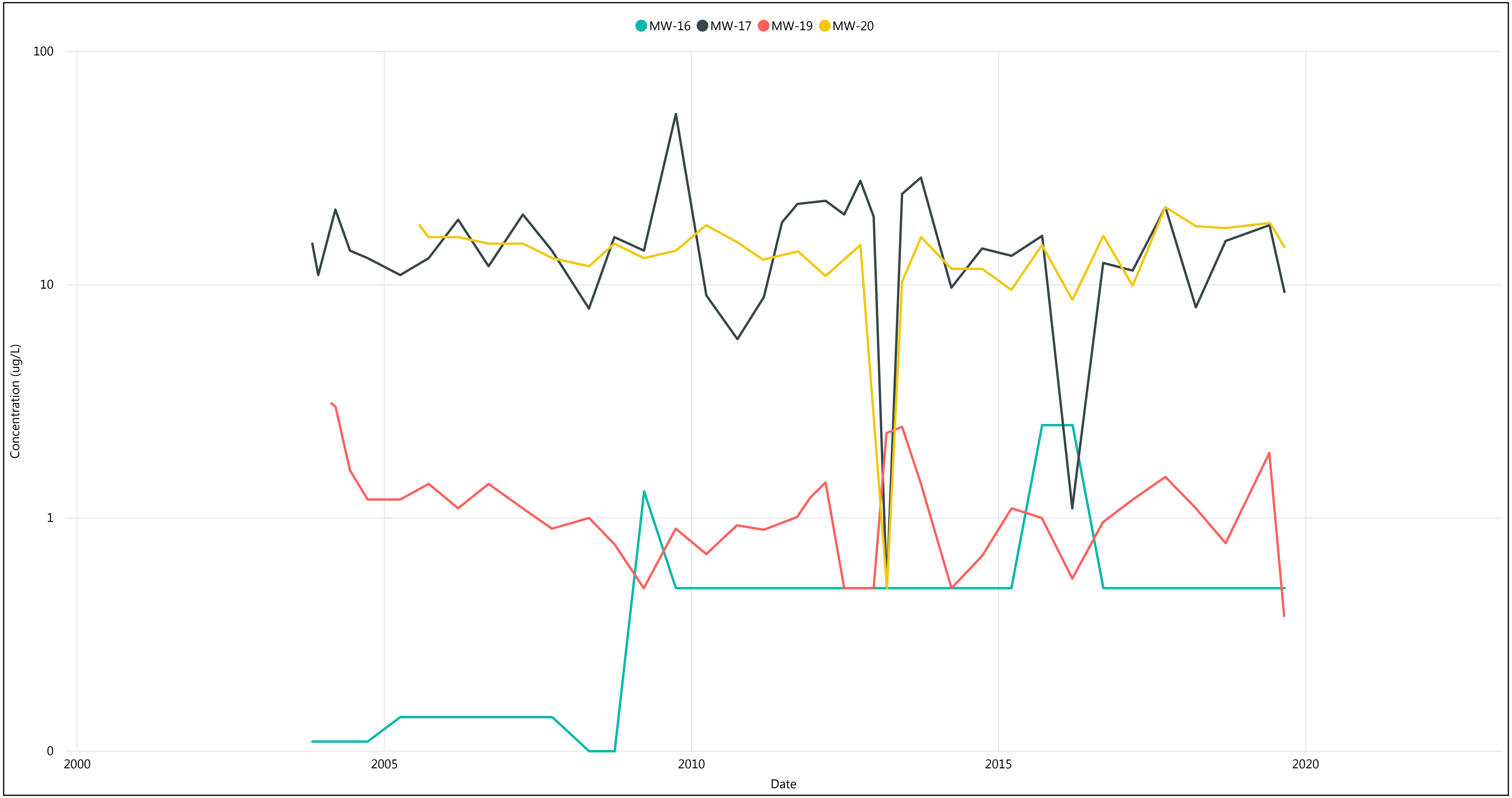
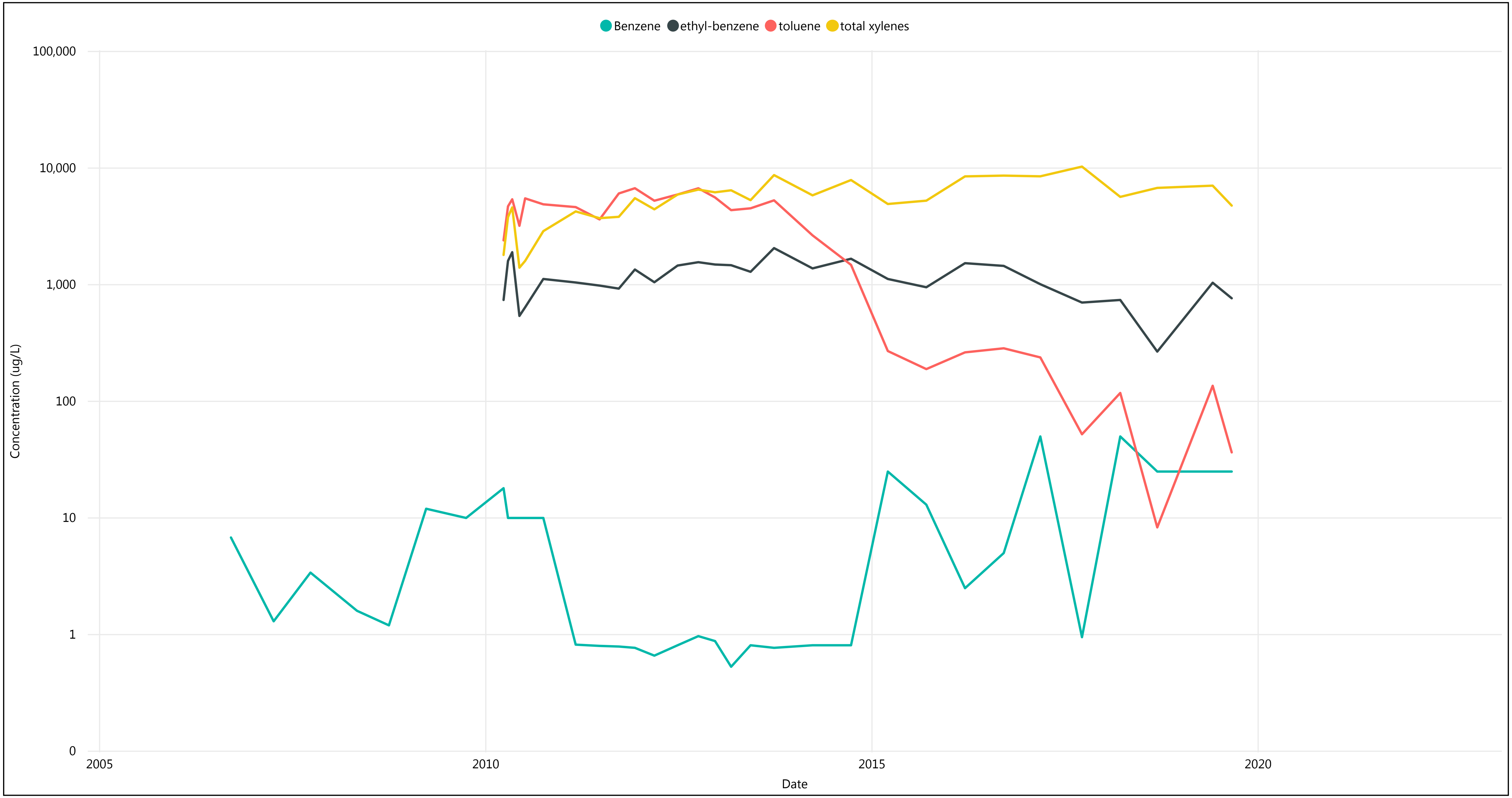


Figure F27. On-site Trend Chart (MW-21)



APPENDIX G EIMS SUBMITTAL

Dylan Stankus

Subject: RE: EIM Data Submission - Study ID AODE5988

From: Sinclair, Gaylen (ECY) <GSIN461@ECY.WA.GOV>
Sent: Friday, February 28, 2020 9:48 AM
To: Mike Appel <Mike.Appel@erm.com>
Cc: Mackie, Thomas L. (ECY) <tmac461@ECY.WA.GOV>
Subject: EIM Data Submission - Study ID AODE5988

Good Morning Mike,

Thank you for submitting data for Univar Kent 212th Street. Submitted data for this study loaded into EIM successfully. The Ecology Project Manager will verify the data on study, locations, and results.

Below is further information on the loaded data.

Facility Site ID: 13862483

Study ID: AODE5988

Study Name: Univar Kent 212th Street Facility Cleanup

Date Range: Mar 2018, Sep 2018, May 2019, Jun 2019, Aug 2019

New Locations: 28

New Results: 5230

Information for data submitter:

- You can view the data by using the following link. https://apps.ecology.wa.gov/eim/search/Map/Map.aspx?MapType=EIM&StudyUserIdSearchType=Contains&StudyUserIds=AODE5988&MapLocationExtent=-13606844.0433243%2c6009305.16116582%2c-13606478.0215483%2c6010116.56715282

Information for Ecology employees:

- You can view the data by using the following link. http://ecyeim/search/Map/Map.aspx?MapType=EIM&StudyUserIdSearchType=Contains&StudyUserIds=AODE5988&MapLocationExtent=-13606844.0433243%2c6009305.16116582%2c-13606478.0215483%2c6010116.56715282

- You should verify study, location, and result information.

- The EIM Data Entry Review Checklist, updated May 2018, can be found in the EIM Help Center.

- There is a video training on how to review the data.

Thanks,
Gaylen

Note for data submitters:

1. We resumed processing submittals for PLIA sites on Monday, Jan 13. Thank you for your patience!
2. Please take this 2-min survey about EIM (link)

Gaylen Sinclair, PhD
EIM Data Coordinator
Washington State Department of Ecology
300 Desmond Dr. SE, P.O. Box 47600
Olympia, WA 98504
Phone: 360-407-6496
e-mail: gsin461@ecy.wa.gov

ERM has over 160 offices across the following countries and territories worldwide

Argentina
Australia
Belgium
Brazil
Canada
China
Colombia
France
Germany
Hong Kong
India
Indonesia
Ireland
Italy
Japan
Kazakhstan
Kenya
Malaysia
Mexico
Mozambique
Myanmar
The Netherlands
New Zealand
Norway
Panama
Peru
Poland
Portugal
Puerto Rico
Romania
Russia
Singapore
South Africa
South Korea
Spain
Sweden
Switzerland
Taiwan
Thailand
UAE
UK
US
Vietnam

ERM's Seattle Office
1218 3rd Avenue, Suite 1412
Seattle, WA 98101

T: +1 425 462 8591
F: +1 425 455 3573

www.erm.com

The business of sustainability

ERM