SCS ENGINEERS

2017 Annual Monitoring Report

Island County Solid Waste Facility
20062 State Route 20
Coupeville, Washington

Presented to:

Island County
Department of Public Works
Solid Waste Division

PO Box 5000
Coupeville, Washington 98239-5000

Presented by:

SCS ENGINEERS
2405 140th Avenue Ne, Suite 107
Bellevue, Washington 98005

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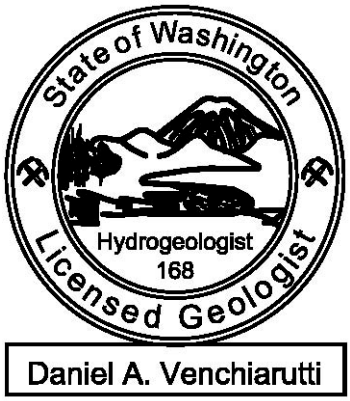

Prepared by:

SCS ENGINEERS
2405 140th Avenue Ne, Suite 107
Bellevue, Washington 98005

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Daniel A. Venchiarutti, LG, LHG
Project Director
SCS ENGINEERS

Gregory D. Helland, LG, LHG
Project Director
SCS ENGINEERS

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1.0 INTRODUCTION

This Annual Report provides a summary of the field and laboratory results for the 2017 post-closure environmental monitoring activities conducted at the Island County Coupeville Solid Waste Facility (CSWF) located at 20062 State Route 20 in Coupeville, Washington. Environmental monitoring activities completed over the 2017 reporting period included sampling and analysis of groundwater (monitoring wells and nearby water supply wells), monitoring of landfill gas probes, and source control operations including stormwater collection and the management of landfill gas extraction wells. This work was conducted in accordance with the CSWF Groundwater Sampling and Analysis/Quality Assurance Plan (SAP/QAP) dated September 2007 and the Landfill Gas Monitoring Plan dated September 2002, modified in 2005 and 2008 (SCS Engineers).

In addition to the routine compliance monitoring program, six volatile organic compound (VOC) assessment wells were also sampled during 2017. Two of these wells (E9D and E10D) were installed near the downgradient (eastern) facility boundary in fall 2016. Data obtained from these additional wells has also been summarized in this report. The environmental monitoring and sampling activities over the 2017 reporting period were performed by SCS Engineers and SCS Field Services.

1.1 REPORT CONTENTS

The 2017 Annual Monitoring Report includes:

- Background and Site Description (including figures of site location and facility layout)
- A summary of the quarterly 2017 monitoring effort
  - Measurement of groundwater levels at 27 monitoring wells
  - Landfill gas (LFG) monitoring at
    - 10 subsurface perimeter probe locations (44 points)
    - 2 probe locations within onsite buildings (two points within the scale house/office)
  - Groundwater field measurements and sample collection at 30 monitoring and water supply wells
  - Groundwater field measurements and sample collection at six VOC assessment wells
- An evaluation and summary of the 2017 groundwater elevation/flow direction, field monitoring, and analytical data
- A summary of the 2017 LFG monitoring results
- A summary of the contaminant source control operation results

- A comparison and summary of 2017 analytical data to regulatory criteria
- A geochemical evaluation of recent (2017) groundwater conditions
- A summary of historical (previous 5 years) groundwater elevation, field monitoring, and analytical data
  - Groundwater hydrographs
  - Times series graphs for select analytes
  - Short and long term groundwater statistics
- Documentation of field monitoring and sampling activities from 2017
- A summary of analytical data validation and analytical laboratory data reports
- Recommendations developed from the evaluation of site conditions

1.2 SUMMARY OF RESULTS

1.2.1 Groundwater

The 2017 groundwater monitoring results for the CSWF remain generally consistent with those previously reported at the site. Water quality within or immediately adjacent to the closed waste disposal areas continues to be influenced by detectable concentrations of several VOCs (primarily vinyl chloride), as well as certain inorganic compounds, general chemistry parameters, and field parameters. However, natural attenuation of the groundwater contamination observed at the CSWF appears to be continuing, with reduced concentrations of the primary landfill contaminants in downgradient monitoring wells situated 400 to 750 feet downgradient of the disposal areas.

Vinyl chloride continues to represent the site contaminant of greatest concern, with groundwater exceedances being sporadically reported as far downgradient as Aquifer 2 monitoring well E4D (approximately 400 feet northeast from the edge of the disposal cells). Since 2013, four additional Aquifer 2 groundwater wells (E5D, E6D, E7D and E8D) have been monitored within the estimated contaminant plume downgradient (northeast) of well E2D, where the highest concentrations of vinyl chloride have been historically detected. In addition, groundwater samples collected from a pair of Aquifer 2 "sentinel" wells (E9D and E10D) situated hydrologically downgradient of the observed plume do not report detectable levels of vinyl chloride. The 2017 results continue to corroborate the findings of previous groundwater modelling efforts which concluded that vinyl chloride originating from the CSWF disposal cells is naturally attenuating beneath the facility, and that vinyl chloride has not, and will not in the future, migrate beyond County property.

Groundwater quality criteria for pH, specific conductivity, total dissolved solids, total nitrate/nitrite, arsenic, iron, manganese, and vinyl chloride were exceeded in one or more wells during 2017. The WAC 173-200 groundwater criteria for vinyl chloride was exceeded in six of the primary compliance monitoring wells (E1D, E2S, N2S, E4S, E2D and N2D) and two of the

VOC assessment wells (E6D and E7D) during the reporting period. These results are generally consistent with previous monitoring at the facility.

In addition to the typical suite of analytes (VOCs, inorganics, general chemistry, and field parameters), the groundwater samples from well E1S were also analyzed for herbicides. As originally noted in September 2002, the herbicide dicamba is present in monitoring well E1S. While there is no specific standard for dicamba under WAC 173-200, the detected concentration of dicamba continues to remain well below the estimated MTCA Method B cleanup goal. The concentration of dicamba in well E1S continues to decline over time. Concentrations have decreased from more than 200 microgram per liter (µg/L) in December 2002 to 0.98 µg/L in October 2017**.**

Landfill closure and source control activities continue to influence most temporal trends in chemical concentrations (both long term and short term, as identified by the statistical summaries and time series plots). Short term trends indicate that the majority of chemical concentrations in the groundwater are stabilized or are decreasing over the past several years. However, some exceptions to this overall trend have been noted. Increasing short term trends in concentration were observed for:

- Specific conductance in Aquifer 1 wells E1D, NE1S and SE1S, and Aquifer 2 well N3D.
- Total nitrate/nitrite in Aquifer 1 well E4S and Aquifer 2 well N2D.
- Sulfate in Aquifer 2 wells E2D, N5S and N5D.
- Total dissolved solids in Aquifer 1 well E1D.
- Manganese in in Aquifer 1 well E1D.

However, as illustrated on the time-series graphs provided in Appendix C, few of these short term increasing trends represent large concentration changes. In addition, several of the identified wells are situated cross-gradient of the CSWF waste disposal cells.

Groundwater elevations at the site have been gradually increasing over the past five years. Groundwater flow directions within Aquifer 1 and Aquifer 2 remain consistently towards the east-northeast and north-northeast, respectively. The average groundwater flow velocity in Aquifer 1 is estimated to be higher (1.20 to 1.30 ft/day) than that calculated for Aquifer 2 (0.111 to 0.115 ft/day).

1.2.2 Landfill Gas Probes

The gas probe monitoring results continue to indicate that LFG (represented by combined methane and carbon dioxide) remains present in the soils surrounding the landfill. Carbon dioxide was the predominant component of LFG detected during the 2017 monitoring events, and during recent historical monitoring events. Depressed oxygen levels (less than ambient concentrations) were also detected in most gas probes during 2017, which is associated with the displacement of air by LFG.

Methane was measured in two LFG probes (GP-S6D and GP-15) situated near the southern edge of the landfill during the latter half of 2017 at levels higher than historically observed at these locations. These localized detections are suspected to be the residual effects of several LFG system interruptions/repairs that occurred during late 2016. Adjustments to the LFG system timer and extraction well tuning regime were initiated in late 2017 (and continue through the present) to reduce or completely eliminate the accumulation of methane in this area.

LFG regulatory requirements only apply to the methane component due to its explosive and flammable nature. During the 2017 monitoring period, the facility remained in compliance with the regulatory threshold limits for methane in soils at the property boundary (less the 5 percent by volume) and inside of onsite structures (less than 1.25 percent by volume).

1.2.3 Contaminant Source Control Operations

Engineering controls aimed at reducing the source of contaminants to groundwater were implemented at the CSWF in 2005. These controls included stormwater collection from an upgraded drainage system at the interface of the CDL/MSW landfills. The stormwater drainage and collection system was designed to reduce infiltration into the CDL wastes and limit the potential production of leachate. The engineering controls also included an enhanced LFG control system featuring improved gas extraction from the refuse mass by adding vertical extraction wells, and the addition of a soil vapor extraction (SVE) system to recover LFG from the vadose zone surrounding the landfill.

During 2017, a total of 10,759 gallons of stormwater runoff from the closed MSW landfill and CDL landfill covers was pumped from the collection system sump near monitoring well C1S and discharged to the infiltration pond west of the disposal areas. Cumulatively, a total of 224,448 gallons of stormwater have been diverted from this area since the fall of 2005. This stormwater previously infiltrated into the subsurface near the CDL disposal area and may have contributed to leachate generation from the CDL waste.

During May 2005, a series of in-refuse vertical extraction wells were installed and activated, while an earlier air injection system was de-activated. The air injection system was de-activated in conjunction with the LFG extraction system installation because the LFG extraction system allows for source control by removing LFG through the extraction wells. Also, in November 2005, new SVE wells began operation. Between November 22, 2005 and late-December 2017, the LFG extraction system operated an average of 6.47 hours per day and the SVE system operated an average of 11.2 hours per day.

These operational times are managed to balance extraction rates with the gas generation rate. Should extraction exceed gas generation rates, oxygen may be pulled into the landfill, which could create a fire hazard. Furthermore, drawing oxygen into the system prevents the gas treatment system (flare) from operating correctly. Excessive extraction of native soil gas could induce migration of refuse generated gases from the waste cells when LFG is not being extracted. LFG monitoring was conducted at approximately 45-day intervals during 2017.

In summary, existing LFG extraction system operations appear to remain effective for controlling LFG generated within the refuse mass, thereby providing source control of LFG migration to the vadose zone. Similarly, the SVE system appears to be successful in extracting LFG from the surrounding vadose zone, thereby providing an additional measure of source control for potential groundwater contaminants.

2.0 BACKGROUND AND SITE DESCRIPTION

Detailed information regarding the site layout and history as well as the hydrogeologic setting may be found in the Preliminary Hydrogeologic Study and Engineering Evaluation, prepared by SCS Engineers (January, 2002), as well as the Conceptual Model Summary Technical Memo, also prepared by SCS Engineers (January, 2004). The following provides a summary of this information.

2.1 LOCATION AND OPERATIONAL HISTORY

The CSWF is located at 20062 SR-20, approximately 1.5 miles east of Coupeville, on Whidbey Island, Washington (Figure 1). The landfill-related features of the CSWF include two closed municipal solid waste (MSW) disposal areas and one construction, demolition and landclearing (CDL) debris disposal area that is currently inactive and covered with low-permeability soil. These waste disposal areas are referred to as follows:

- City MSW Landfill (1946 - 1977)
- County MSW Landfill (1971 - 1992)
- County CDL Landfill (1992 - 2002)

The City MSW Landfill operated (by the Town of Coupeville) as a burning dump from 1946 to 1969 and as a landfill from 1969 to 1977. It occupies approximately 3 acres on the west side of the property. The depth of waste is estimated to be 10 to 20 feet deep based on typical waste disposal practices from that time period. Waste disposal quantities for the City MSW Landfill are not available. The City MSW Landfill has no liner system and the cover system consists of native soils with grass vegetation.

The County MSW Landfill operated from 1971 to 1992. It occupies approximately 11 acres on the south side of the property. The depth of waste is estimated to be 20 feet deep on the west half of the fill area and approximately 50 feet deep on the east half based on historical waste disposal practices and mining (quarry) activities. The County MSW Landfill has no liner system and the cover system consists of the following from top to bottom: grass vegetation, 6 inches of topsoil, 18 inches of drainage sand, composite 8 oz/yd^2 non-woven geotextile / 250 mil HDPE drainage net / 8 oz/yd^2 non-woven geotextile, 60 mil HDPE textured geomembrane, and 18 inches of foundation sand.

The County CDL Landfill operated from 1992 to 2002. It occupies approximately 4 acres immediately adjacent to the north side of the County MSW Landfill. A portion of the County CDL Landfill overlaps the north side of the County MSW Landfill. Waste is estimated to be up to 40 feet deep based on historical filling activities. The County CDL Landfill has no liner system and has a soil cover consisting of 12 inches of native soil (installed in 2002) and 12 inches of soil with high clay content (installed in 2004). The CDL Landfill accepted inert materials including uncontaminated soils, brick, concrete, sand, and glass, as well as other construction and land clearing debris, including some organic materials such as wood.

Inspections by Island County Public Health suggest that small quantities of unacceptable materials may have been disposed of at this site.

The CSWF also includes an asbestos landfill situated in the north-central portion of the disposal area. In addition to landfilling, other features of the CSWF include a transfer station, a moderate risk waste handling station, a recycling collection area, a septage biosolids treatment plant, various county storage facilities, and an animal shelter. All of these facilities are situated on approximately 90 acres of land owned by the County. A site plan illustrating the general layout of the facility is presented on Figure 2.

2.2 TOPOGRAPHY AND CLIMATE

The site is situated on a wooded terrace, approximately one mile south of Penn Cove. Although the ground surface comprising the developed areas of the property remains level, the site lies in the vicinity of several large glacial kettle depressions. The elevation of the facility is approximately 200 feet above mean sea level.

Site climate is characterized by cool, moist winters and dry, warm summers which are characteristic of the Puget Sound Lowlands. Temperature extremes are moderate due to maritime influences from the adjacent Puget Sound, Strait of Juan de Fuca, and nearby Pacific Ocean. Precipitation is typically less than most areas in the Puget Sound region due to the site's location relative to the leeward side of the Olympic Mountains, which generate a rain shadow effect. The site receives an average annual rainfall of just over 21 inches, according to historical records.

2.3 LOCAL AND REGIONAL HYDROGEOLOGY

The Preliminary Hydrogeologic Study and Engineering Evaluation completed by SCS (January, 2002) identified three water-bearing zones and two confining (or semi-confining) layers beneath the CSWF. Regionally, groundwater flow in the upper aquifer was reported to generally trend toward the east-northeast. Groundwater in the deeper aquifer appears to flow in a more north-northeasterly direction. South of the site, the regional groundwater flow direction has a southeasterly component. Groundwater flow beneath the site likely has a vertical component, with water moving from shallowest to deepest zones across the semi-confining layers. The difference in hydraulic head between the upper and lower aquifers beneath the site is reported to be approximately 12 feet.

3.0 GROUNDWATER

Quarterly groundwater monitoring at the Island County Solid Waste Facility commenced in 1985. Groundwater monitoring has included both monitoring wells (constructed specifically for groundwater monitoring) and nearby small-scale water supply wells. Since its inception, the groundwater monitoring program has evolved to include monitoring locations (both on and off site), as well as an expanded parameter suite. All the groundwater monitoring wells on the CSWF property are outfitted with dedicated low-flow sampling pumps.

The current groundwater monitoring network includes ten locations with paired shallow and deep monitoring wells, five single completion monitoring wells (three shallow, two deep), and five water supply wells. Well W1D is also included in the groundwater monitoring network. It was formerly paired with a shallow monitoring well (W1S) that is not currently being monitored due to an insufficient amount of water in the well for sampling. Well N4S is monitored for water levels only. Replacement well N1SR was installed in November 2005; however, this well appears to be completed in a perched zone which may not be hydraulically connected (at least directly) with the groundwater monitored by other wells at the site. In addition, four new groundwater monitoring wells were installed in 2013 to assess VOC levels (primarily for vinyl chloride) in the deeper aquifer to the northeast (downgradient) of the landfill. Two additional deep aquifer wells were installed along the eastern facility border during 2016 to confirm that VOCs (primarily vinyl chloride) were not migrating off County-owned property. The locations of the CSWF groundwater monitoring wells and pumping wells are depicted on Figure 2.

A summary of the monitoring wells and their positions within the monitoring well network is provided in the table below and illustrated on Figure 2.

2017 CSWF Groundwater Monitoring Well Network (Installation Year)			
Aquifer 1 Wells	**Aquifer 2 Wells**	**Pumping Wells**	**VOC Assessment Wells (Aquifer 2)**
C1S (2002)	E2D (1997)	DNR (1964)	E5D (2013)
E1D (1997)	E3D (2001)	WRI (1976)	E6D (2013)
E1S (1997)	E4D (2008)	S7 (1979)	E7D (2013)
E2S (1997)	N1D (1997)	DOT (1981)	E8D (2013)
E4S (2008)	N2D (1997)	STP (1993)	E9D (2016)
N1SR (2005)	N3D (1997)		E10D (2016)
N2S (1997)	N5D (2002)		
N3S (1997)	N5S (2002)		
NE1S (2002)	NE1D (2002)		
S10S (2003)	S11D (2003)		
S11S (2003)	W1D (1997)		
SE1D (2003)	W2S (2002)		
SE1S (2002)			

Groundwater monitoring was performed by SCS Engineers during January, April, July, and October of 2017. It should be noted that two groundwater monitoring wells (NE1S and NE1D) could not be sampled during the second quarter due to wellhead damage incurred during a

nearby construction of a County septage treatment facility. Both monitoring wells were subsequently repaired by a state licensed well driller in time to be sampled during the third quarter monitoring event. The repairs completed at these wells were documented in a separate report that was provided to Island County Public Health (ICPH) and the Department of Ecology (Ecology).

3.1 MONITORING ACTIVITIES

3.1.1 Water Level Measurements

Static groundwater level measurements were collected at the monitoring wells at the CSWF each quarter during the reporting period. Depths to water measurements (to the nearest 0.01 ft.) were obtained using an electronic water level indicator. Measurement results were recorded on field sampling logs and the resulting data were subsequently used to calculate quarterly groundwater elevations for each well location.

3.1.2 Sample Collection and Analysis

Groundwater samples were collected each quarter from the locations depicted on Figure 2. The groundwater monitoring wells were sampled using the low-flow sampling procedure outlined in the SAP/QAP. Each monitoring well is outfitted with a dedicated bladder pump. Purging was completed at flow rates of less than 500 milliliters per min (ml/min) until indicator parameters (pH, temperature, specific conductance, turbidity, and dissolved oxygen) stabilized according to the criteria stated in the SAP/QAP. Indicator parameters (except turbidity) were measured with a closed in-line flow-through cell to prevent atmospheric influences. Turbidity measurements were taken using a field-portable turbidity meter. After parameter stabilization, the flow-through cell was disconnected. Samples were collected directly from the pump discharge line (to prevent cross-contamination) by filling laboratory-prepared sample bottles. Specific sampling procedures are outlined in the SAP/QAP.

Water supply well samples were collected from the sampling taps situated at each wellhead's surface outlet immediately before the pressure tank and other appurtenances. The tap was allowed to discharge until the pump came on (verifying that the water being sampled came from the well and not a storage or pressure tank) and indicator parameters were allowed to stabilize according to the same criteria used for monitoring well sampling. After indicator parameters stabilized, the flow splitter was removed and samples were collected directly from the sampling tap at flow rates of approximately 500 ml/min. Specific sampling procedures are outlined in the SAP/QAP.

It should be noted that the objective of purging a pumping water supply well is the same as with a monitoring well: to ultimately collect a sample representative of the groundwater in the aquifer rather than water in the well (or plumbing system). However, it should be recognized that data obtained from water supply wells may not be directly comparable to that obtained from the monitoring wells due to the differences in well construction and sampling method. Concentration averaging is also likely to occur from differences in the screen length and pumping rate for the

water supply wells. The purpose of this sampling is simply to assess the quality of water at the water supply wells to verify usability of the water.

Groundwater samples were packed in coolers containing ice, stored, and transported under chain-of-custody protocols to Test America Laboratories (Test America) in Fife, Washington. Laboratory analytical data results were delivered to SCS Engineers in electronic formats.

The SAP/QAP calls for analyses of:

- Total dissolved solids by SM 2540C
- Chemical oxygen demand (COD) by SM 5220C
- Total organic carbon (TOC) by SM5310B
- Total alkalinity and bicarbonate alkalinity by SM 2320B
- Anions (sulfate and chloride) by method 300.0
- Total nitrate/nitrite and ammonia by SM 4500
- Metals (arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, nickel, selenium, silver, thallium, vanadium, zinc, manganese, and lead by method 6020A; iron, calcium, magnesium, potassium and sodium by method 6010B
- Volatile organic compounds (VOCs) by method 8260B/8260SIM (or equivalent)
- Herbicides by method 8151A (Well E1S only)

The SAP/QAP also calls for field Quality Assurance/Quality Control (QA/QC) samples, including collection of one duplicate sample and one field blank each quarter.

3.2 RESULTS

3.2.1 Groundwater Elevations

Groundwater elevations in the Aquifer 1 (shallow aquifer) during 2017 ranged between 63.56 (NE1S in October) to 85.45 (W1S in April) feet above mean sea level (msl) with the exception of well N1SR which has historically exhibited higher groundwater elevations. Over the reporting year, groundwater elevations at well N1SR ranged between 98.74 and 101.83 feet msl. As noted in past annual reports, shallow wells N1SR and N4S appear to represent locally perched water above Aquifer 1.

Groundwater elevations observed during the 2017 reporting period in Aquifer 2 (deep aquifer) ranged from 49.75 (NE1D in January) to 59.12 (S11D in July) feet above msl. With the exception of perched wells N4S and N1SR, groundwater elevations at the CSWF do not appear to show strong seasonal fluctuations in response to changes in precipitation recharge. Depth-to-water measurements and calculated groundwater level elevations from the CSWF monitoring wells completed in Aquifer 1 and Aquifer 2 are presented in Tables 1A and 1B, respectively. Hydrographs of the CSWF groundwater elevations are provided for Aquifer 1, the perched water zone, and Aquifer 2 on Figures 3 through 5, respectively.

As illustrated on Figures 3 through 5, groundwater elevations at the CSWF have been gradually rising in both Aquifer 1 and Aquifer 2 over the past five years. Barring a few anomalous

elevation values (likely due to inaccurate field measurement), the majority of the observed 5-year increasing elevation trends remain within a 0.5 to 3 feet range depending on well location. Perched groundwater elevations in wells N4S and N1SR show no apparent 5 year trends, but do demonstrate greater seasonal variation.

Groundwater surface elevation maps were prepared (refer to Figures 6A/B, 7A/B, 8A/B, and 9A/B) for Aquifer 1 and Aquifer 2. These figures display the potentiometric surfaces and groundwater flow directions observed during each quarter of 2017. Little change was noted in groundwater flow direction over the course of the 2017 compliance period.

The groundwater elevation surface maps for Aquifer 1 (Figures 6A, 7A, 8A, and 9A) depict a generally easterly flow direction. The average hydraulic gradient for Aquifer 1 was generally consistent from quarter to quarter. The calculated gradient for Aquifer 1 ranged from 0.0136 to 0.01478 feet/feet for the 2017 monitoring events. Assuming an effective porosity of 25 percent and an average hydraulic conductivity of 22.0 feet/day (as determined from grain size analysis of the sandy soils found in the screened intervals of wells NE1S, S10S, and SE1S), the groundwater flow velocity during 2017 in Aquifer 1 was calculated to range between 1.20 and 1.30 feet/day.

The groundwater elevation surface maps for Aquifer 2 (Figures 6B, 7B, 8B, and 9B) depict a flow direction to the north-northeast. The average hydraulic gradient for Aquifer 2 ranged between 0.0039 to 0.0041 feet/feet during the reporting period. Assuming an effective porosity of 33 percent and an average hydraulic conductivity of 9.40 feet/day (determined from grain size analysis of the sandy soils found in the screened intervals of landfill wells NE1D, N5D, and S11D), the groundwater flow velocity during 2017 in Aquifer 2 was estimated to range between 0.111 and 0.118 feet/day.

Water supply well water levels were not measured and are not reported because water levels cannot be guaranteed to be representative of static conditions (due to unknown pumping schedules).

3.2.2 Water Quality

Measurement of field parameters and results from laboratory analyses for general chemistry, metals, and herbicides (E1S only) for 2017 are presented in Tables 2A through 2C. Results from laboratory analyses for VOCs are presented in Tables 3A through 3C. In addition, VOC results obtained during the reporting period from the six new assessment wells (E5D though E10D) installed between 2013 and 2016 are summarized on Table 4. A summary of VOC detections is also provided in Table 5. Field documentation for the 2017 groundwater monitoring events is presented in Appendix A.

3.2.2.1 Field Parameters

Field parameters results for the 2017 compliance period are summarized below.

Dissolved oxygen (DO) measurements recorded at the CSWF ranged from 0.19 to 7.97 milligrams per liter (mg/L) over the reporting year. Aquifer 1 and Aquifer 2 wells reported

similar DO ranges (0.19 to 7.64 mg/L and 0.32 to 7.97 mg/L. respectfully). The water supply wells reported a DO range of 0.86 to 6.16 mg/L.

Oxidation-reduction potential (ORP) measurements varied widely across the facility ranging from negative (-) 293 to positive 301 millivolts (mV) during 2017. Water supply wells reported an ORP range of -194 to 165 mV.

The **pH** values recorded in the Aquifer 1 and Aquifer 2 during the reporting year ranged between 6.1 to 8.6 standard units (SU). Water supply wells reported pH results ranging between 7.1 and 8.5 SU. It should be noted that pH field measurements are most commonly reported within the 6.4 to 7.7 SU range, and that the majority of outlier results are suspected to be related to inconsistent meter performance.

Specific conductivity (SC) recorded at the CSWF in 2017 ranged between 407 and 1,797 microSiemens per centimeter (µS/cm). Aquifer 1 and Aquifer 2 wells reported generally similar SC measurements ranging between 407 to 1,797 µS/cm and 559 to 1,743 µS/cm, respectively. The water supply wells reported a SC range of 564 to 894 µS/cm.

Temperature measurements ranged from 5.8 °C to 20.0 °C in the groundwater samples collected over the reporting period. The highest temperatures were typically recorded at the water supply wells sampled during the July event, while the coolest temperatures were generally noted during the January event. As noted for previous monitoring years, the recorded values are largely interpreted to be function of changes in the ambient air temperature during sampling, and are not anticipated to represent in situ groundwater temperatures.

Groundwater **turbidity** recorded during 2017 was typically low in the Aquifer 1 and Aquifer 2 wells, ranging from 0.31 to 11.33 Nephelometric Turbidity Units (NTU). The water supply wells reported turbidity readings ranging from 0.93 to 27.1 NTU. Water supply well STP continued to report the most elevated turbidity results.

3.2.2.2 General Chemistry

The 2017 results for the general chemistry parameters are summarized below.

Total Alkalinity at the CSWF is principally composed of bicarbonate (HCO_3). During the compliance year, total alkalinity varied between 190 and 850 mg/L. Aquifer 1 alkalinity ranged from 190 to 840 mg/L, while Aquifer 2 alkalinity ranged from 220 (E4D throughout the year) to 850 mg/L (E2D during January and April). The water supply wells reported an alkalinity range of 210 to 330 mg/L.

Ammonia was detected in several Aquifer 1 and Aquifer 2 monitoring wells during 2017 at concentrations ranging between <0.2 (in most wells) to 0.51 mg/L (E3D during April). Detectable ammonia was reported once each in water supply wells DNR and S7 (at 0.22 and 0.28 mg/L, respectively).

Calcium detections in the Aquifer 1 and Aquifer 2 wells ranged from 32 mg/L (N1SR in April and July) to 220 mg/L (E2D in October). Calcium detections in the water supply wells remained generally lower, ranging between 37 and 84 mg/L.

Chemical Oxygen Demand (COD) typically ranged between <10 (in most wells) and 16 mg/L in Aquifer 1 and Aquifer 2 wells in 2017, with the majority of wells reporting non-detects for this parameter. However, anomalously high COD results were reported in Aquifer 1 wells S11S and N3D (55 and 130 mg/L, respectively) and in Aquifer 2 well E4D (98 mg/L) during the January event. The only COD detection reported in the water supply wells during the compliance year occurred in WRI (11.0 mg/L during April).

Chloride concentrations reported at the CSWF ranged between 3.2 and 140 mg/L. Aquifer 1 chloride levels varied between 3.2 and 100 mg/L. Aquifer 2 chloride levels ranged from 25 to 140 mg/L. Water supply wells reported chloride concentrations ranging from 20 to 59 mg/L. The 250 mg/L groundwater quality criterion for chloride was not exceeded during the 2017 compliance year.

Fluoride levels reported in the Aquifer 1 and 2 wells during 2017 were low across the facility ranging between <0.20 (in most wells) and 0.33 mg/L. Fluoride was not detected in any of the water supply wells during the reporting period.

Magnesium concentrations in Aquifer 1 wells ranged between 29 and 120 mg/L over the reporting year. Aquifer 2 reported similar magnesium levels ranging from 24 to 110 mg/L. The water supply wells reported magnesium concentrations ranging between 31 to 58 mg/L.

Potassium concentrations ranged from 5.3 to 10.0 mg/L in Aquifer 1 during 2017. Aquifer 2 potassium levels were similar, ranging between 4.3 and 11 mg/L. The water supply wells reported potassium concentrations ranging from 5.1 to 11 mg/L.

Sodium levels were generally higher in the Aquifer 2 wells, ranging between 21 and 50 mg/L. Aquifer 1 reported sodium concentrations between 9.9 and 49 mg/L. Sodium levels in the water supply wells ranged between 20 and 34 mg/L.

Sulfate concentrations during the reporting period ranged between 7.1 and 190 mg/L. As noted in past years, Aquifer 1 well C1S typically reported the highest sulfate levels (140 to 190 mg/L) at the site. Sulfate concentrations in the remaining Aquifer 1 wells varied between 7.3 and 120 mg/L. Aquifer 2 sulfate levels ranged from 11 to 170 mg/L. Water supply wells reported sulfate concentrations ranging between 7.1 and 44 mg/L. The 250 mg/L groundwater quality criterion for sulfate was not exceeded during the 2017 compliance year.

Total dissolved solids (TDS) was detected at concentrations ranging between 240 (N1SR in July) and 1,000 mg/L (E1D in April and July, and E2D in April) during the reporting period. Aquifer 1 and Aquifer 2 wells reported generally similar TDS ranges (240 to 1,000 mg/L and 310 to 1,000 mg/L. respectfully). The water supply wells detected lower TDS concentrations, ranging between 280 and 540 mg/L.

Nitrate/Nitrite was reported at the facility at concentrations ranging between 0.07 and 46.0 mg/L. Nitrate/nitrite levels were most varied in the Aquifer 1 wells, ranging from 0.07 to 46.0 mg/L. As noted in past monitoring years, this parameter was most elevated in S10S (41 to 46 mg/L), but routinely exceeded 5 mg/L in five of the remaining Aquifer 1 wells. The 10 mg/L groundwater quality criterion was exceeded in two Aquifer 1 wells (S10S and E1S) during the reporting year. However, these elevated nitrate/nitrite detections occur in generally cross-gradient wells, and are suspected to be related to non-landfill sources.

Total organic carbon (TOC) concentrations ranged from 1.1 to 7.4 mg/L in the Aquifer 1 wells during 2017. Aquifer 2 reported TOC levels ranging between 1.0 to 4.1 mg/L, while the water supply wells reported TOC concentrations ranging from 1.1 to 2.6 mg/L.

3.2.2.3 Metals

Metals results for the 2017 reporting year are summarized below. A total of six metals, including antimony, beryllium, cadmium, selenium, silver, and thallium, were either not detected or only sporadically reported above their respective laboratory reporting limits. Accordingly, these six metals have been excluded from the discussion below.

Arsenic concentrations during the compliance year ranged between 0.0011 and 0.037 mg/L. Aquifer 1 arsenic concentrations varied from 0.0011 to 0.013 mg/L. Aquifer 2 arsenic levels ranged between 0.0017 and 0.016 mg/L. The water supply wells reported arsenic concentrations ranging between 0.0030 and 0.037 mg/L. Similar to last year, the highest arsenic detections were observed in water supply well STP.

Barium concentrations at the CSWF ranged from 0.012 to 0.10 mg/L. The Aquifer 1 and water supply wells reported a similar range of barium concentrations (0.012 to 0.058 mg/L and 0.021 to 0.041 mg/L, respectfully). Aquifer 2 reported slightly higher barium levels that ranged between 0.017 and 0.10 mg/L.

Chromium was reported at concentrations that ranged between 0.0004 and 0.017 mg/L. Aquifer 1 chromium levels showed the greatest variation, ranging between 0.0004 and 0.017 mg/L. Chromium in Aquifer 2 wells varied between 0.0004 to 0.0025 mg/L. The water supply wells reported chromium ranging from 0.00044 to 0.0023 mg/L

Cobalt was reported in three Aquifer 1 wells (E1D, E1S and E2S) at concentrations ranging from 0.00057 to 0.0014 mg/L. Cobalt was not detected in any of the Aquifer 2 or water supply wells.

Copper was reported at concentrations that ranged from 0.0020 to 0.062 mg/L during the compliance year. As noted in 2016, Aquifer 1 and Aquifer 2 wells reported similar copper ranges (0.0020 to 0.0048 mg/L and 0.0020 to 0.0072 mg/L, respectfully). The water supply wells reported a greater range of copper detections from 0.0021 to 0.062 mg/L. The highest copper levels were noted in well WR1.

Iron concentrations were reported to range between 0.31 and 0.76 mg/L. Iron was not detected in any of the Aquifer 1 wells during 2017. N1D was the only Aquifer 2 well that reported iron

levels in excess of the 0.3 mg/L groundwater quality criterion. With the exception of WR1, all the water supply wells reported detectable iron concentrations. Well S7 reported the highest iron levels (0.76 mg/L in October) for the facility over the compliance year.

Lead concentrations were reported in one Aquifer 1 well (E1S at 0.0052 and 0.0013) during January and July, respectively. No other Aquifer 1 or 2 wells detected lead during the compliance year. Lead was also reported in water supply wells S7, STP and WR1 at concentrations ranging between 0.00084 and 0.003 mg/L.

Manganese detections ranged between 0.021 and 0.47 mg/L over the reporting period. Aquifer 1 wells reported the largest range of manganese concentrations varying between 0.021 and 0.47 mg/L. Aquifer 2 manganese levels ranged from 0.027 to 0.3 mg/L. Water supply wells reported manganese concentrations ranging between 0.022 and 0.17 mg/L. The highest manganese levels continue to be observed in well E2S.

Nickel was reported at concentrations that ranged from 0.0035 to 0.015 mg/L during the compliance year. Aquifer 1 nickel levels showed the greatest variation, ranging between 0.0035 to 0.015 mg/L. Nickel in the Aquifer 2 wells varied between 0.0043 to 0.01 mg/L. Nickel was not detected in any of the water supply wells during the reporting period.

Vanadium was detected at low concentrations in ten of the Aquifer 1 wells at concentrations ranging between 0.0040 and 0.0074 mg/L. Two Aquifer 2 wells (E2D and N5D) reported sporadic vanadium detections ranging from 0.0048 to 0.0079 mg/L. Vanadium was not detected in any of the water supply wells during the compliance year.

Zinc was not reported in any of the Aquifer 1 wells, and in one Aquifer 2 well N5D (0.01 mg/L in January) during 2017. Zinc was detected in all of the water supply wells ranged between 0.052 to 1.7 mg/L, with the highest zinc levels being reported in well STP.

3.2.2.4 Volatile Organic Compounds

Tables 3A through 3C and Table 4 present the VOC results obtained during the reporting period. Table 5 presents a summary of the volatile organic compounds that were detected during 2017 in the routinely monitored groundwater wells and the additional VOC assessment wells. A total of eleven (11) VOCs were detected in groundwater samples collected from CSWF Aquifer 1 and Aquifer 2 monitoring wells during 2017. A summary of the detected VOCs is provided in Table 5. The following compounds were detected at least once at the CSWF:

- 1,1,1–trichloroethane
- 1,1-dichloroethane (N2S only)
- 1,1-dichloroethylene
- acetone
- carbon disulfide
- chloroform (E7D only)
- cis-1,2-dichloroethylene (C1S only)
- methylene chloride
- trichloroethylene (C1S only)
- trichlorofluoromethane
- vinyl chloride

Four of the above listed VOCs (1,1-dichloroethane, cis-1,2- dichloroethylene, chloroform, and trichloroethylene) were only sporadically detected in a single site monitoring well, and at low concentrations near the method detection limit.

Over the current reporting year, **1,1,1-trichloroethane** was detected in six Aquifer 1 and 2 wells (C1S, E1S, N2S, E2D, E7D, and S10S) at concentrations ranging between 0.26 and 0.94 µg/L. In addition, a single, low-level detection of this parameter was reported in a water supply well (0.25 µg/L in DOT during the fourth quarter event).

1,1-dichloroethane was detected in two monitoring wells (N2S and E7D) at concentrations ranging between 0.58 and 2.8 µg/L. Downgradient Aquifer 2 well E7D reported the highest concentrations of this parameter.

1,1-dichloroethylene was reported in wells C1S, N2S and E7D at concentrations ranging between 0.10 and 2.9 µg/L.

Acetone was detected in the majority of Aquifer 1, Aquifer 2 and water supply wells during the second quarter monitoring event at concentrations ranging between 2.0 and 13.0 µg/L. It should be noted that these second quarter results were associated with similar detections in the laboratory's method blank. Aquifer 2 well W2S reported acetone detections during three quarters in 2017, ranging from 2.2 to 13.0 µg/L.

Carbon disulfide was detected one time in wells E4D, E6D, E7D, E9D, E10D and water supply well DOT at concentrations ranging between 0.34 and 1.2 µg/L. These detections were mostly reported for the second quarter event, and are suspected to represent laboratory artifacts.

Chloroform was detected once in near-refuse well E7D (0.26 µg/L) during the second quarter 2017 monitoring event.

The compound **cis-1,2-dichloroethylene** was detected in well C1S during all four 2017 monitoring events at concentrations ranging between 0.28 and 0.35 µg/L.

Methylene chloride was detected in well E2D and E7D during the both the second and fourth quarter monitoring events, at concentrations ranging between 0.59 and 1.0 µg/L.

Trichloroethylene was detected at well C1S during all four 2017 monitoring events at concentrations ranging between 0.21 and 0.25 µg/L.

Trichlorofluoromethane was detected at nine locations during 2017, including six Aquifer 1 wells (C1S, E1S, E2S, N2S, N3S, and S10S) and three Aquifer 2 wells (E2D, E7D and N2D). Concentrations of this compound ranged from 0.48 to 68 µg/L over the course of the reporting period. The most elevated trichlorofluoromethane levels occurred in downgradient well E7D (ranging from 55 to 68 µg/L).

Vinyl chloride is the primary constituent of concern that has been detected above applicable regulatory standards at the CSWF. Vinyl chloride was detected in four Aquifer 1 wells (E1D, E2S, E4S and N2S) and four deep Aquifer 2 wells (E2D, E6D, E7D and N2D) during the

reporting period. The majority of these wells are located within or immediately adjacent to the disposal areas. Vinyl chloride concentrations ranged between 0.026 to 23 µg/L during 2017. The highest vinyl chloride concentrations were detected in wells E2D (ranging from 18 to 23 µg/L) and E7D (ranging from 4.0 to 6.4 µg/L).

It should also be noted that the two downgradient "sentinel wells" (E9D and E10D), situated near the downgradient facility border, reported isolated acetone and carbon disulfide detections near the laboratory reporting limit, primarily during the second quarter 2017 monitoring event. These low-level detections are considered to represent laboratory artifacts. No other VOCs, including vinyl chloride, were detected in these downgradient wells during the reporting year.

3.2.2.5 Herbicides

Groundwater samples collected from monitoring well E1S were analyzed for herbicides during 2017. Low levels of dicamba were detected in this well during each quarterly monitoring event, ranging from 0.89 µg/L (in January) to 2,2 µg/L (during April). While there are no specific standards for dicamba under WAC 173-200, the reported concentration of dicamba in E1S continue to decrease over time and remains significantly below the 480 µg/L MTCA Method B cleanup goal.

3.2.2.6 Groundwater Data QA/QC

All analytical data reported by the primary testing laboratory (TestAmerica, Fife, WA) during 2017 was subjected to QA/QC evaluations. The QA/QC evaluations were performed as outlined in the SAP/QAP, and included the collection and analysis of field duplicates and trip blanks. The QA/QC evaluation also included a detailed review of the laboratory data, including sample handling, holding times, and laboratory performance analyses including duplicates, blanks, matrix spikes, matrix spike duplicates and surrogate recoveries. Data quality issues were not identified in the majority of the analytical data sets reported during the current compliance period. However, several anomalies were noted during 2017:

- For the first quarter data set, EPA method 8260 analysis for six primary groundwater samples (N5D, N5S, N2D, N2S, W2S and WR1) were not completed within the method's recommended 14-day holding time. As a result, these six wells were resampled for VOCs on March 2nd, with the subsequent EPA method 8260 analysis being completed within the recommended holding time. The March 2nd results are reported for these six well locations.

- For the second quarter data set, EPA 8260 analysis reported failing quality assurance limits for acetone in both the primary and quality control samples. The second quarter acetone detections have been reported in the data summary tables, but are suspected to represent analytical artifacts.

Data flags have been appended to the 2017 testing results as appropriate. All the data were determined to be acceptable for the intended purposes. Appendix B contains the data validation reports and the laboratory data packages for the reporting year.

It should also be noted that at the request of the Island County Health Department, the split samples from eight CSWF monitoring wells were submitted to Edge Analytical Laboratories (Edge) for low level vinyl chloride analysis during each of the 2017 quarterly monitoring events. The results of the spilt sampling has been documented in separate quarterly reports that have been issued to the regulatory agencies. As discussed in these reports, it remains our opinion that the data presented by TestAmerica demonstrates greater quality control and are more representative of actual site conditions.

3.2.3 Groundwater Quality Criteria Comparison

All analytical results were compared to the water quality criteria for groundwaters of the state of Washington (Chapter 173-200 WAC) and to Federal primary and secondary MCLs. A summary of WAC 173-200 criteria and Federal MCL exceedances for the 2017 reporting year can be found on Table 6. Water Quality criteria for the following eight analytes were exceeded:

- pH
- specific conductivity
- total dissolved solids
- total nitrate/nitrite
- arsenic
- iron
- manganese
- vinyl chloride

The WAC 173-200 criterion and secondary MCL for **pH** (<6.5 or >8.5 SU) was exceeded at least once in two Aquifer 1 wells (C1S and N1SR), two Aquifer 2 wells (E2D and E24) and two water supply wells (DOT and STP) during the reporting period.

The secondary Federal MCL for **specific conductivity** (700 micro Siemens per centimeter, µS/cm) was exceeded at a majority of the wells during multiple sampling events.

The WAC 173-200 criterion and secondary MCL for **total dissolved solids** (500 mg/L) was exceeded at least once during the reporting year in 20 wells, including 12 Aquifer 1 wells, seven Aquifer 2 wells and one water supply well (WR1). While some of the exceedances at monitoring wells are almost certainly due to effects from the waste disposal activities, many of the exceedances are thought to be due to natural water quality. Total dissolved solids concentrations on the order of 500-800 mg/L are routinely observed for groundwater throughout the central portion of Island County.

The WAC 173-200 criterion and primary MCL for **total nitrate/nitrite** (10 mg/L) was exceeded in each of the monitoring events in shallow aquifer monitoring wells S10S (located immediately south of the disposal areas and east of the animal shelter) and E1S (located adjacent to the disposal area). Given the generally cross-gradient locations of these wells, the aforementioned detections do not appear to be related to the waste disposal cells.

The WAC 173-200 groundwater quality criterion for **arsenic** (0.00005 mg/L) was exceeded at least once during the 2017 reporting period in all 30 of the groundwater monitoring and water supply wells monitored for this parameter. The primary MCL of 0.01 mg/L was exceeded during all four quarters in the samples collected from Aquifer 1 well SE1D, Aquifer 2 well E4D and water supply well STP.

Iron concentrations exceeded the WAC 173-200 criterion and secondary MCL of 0.3 mg/L at least once during the reporting year in one Aquifer 2 well (N1D) and four water supply wells (DNR, DOT, S7 and STP). It should be noted that the water supply wells are not constructed to be environmental monitoring wells, often produce higher turbidity samples, and are considered to provide less representative groundwater results.

Manganese concentrations exceeded the WAC 173-200 criterion and secondary MCL of 0.05 mg/L during the reporting year in 13 wells, including three Aquifer 1 wells, seven Aquifer 2 wells and four water supply wells.

The WAC 173-200 groundwater criterion (0.02 µg/L) for **vinyl chloride** was exceeded in six of the primary CSWF wells during the reporting period, including: four Aquifer 1 wells (E1D, E2S, E4S and N2S) and two Aquifer 2 wells (E2D and N2D). Vinyl chloride also routinely exceeded the WAC 173-200 groundwater criterion in two of the VOC assessment wells (E6D and E7D) during 2017. The concentrations in Aquifer 2 wells E2D and E7D also exceeded the primary MCL of 2 ug/L. Vinyl chloride was not detected in any of the water supply wells during the reporting period.

3.3 EVALUATION OF GROUNDWATER QUALITY

3.3.1 Spatial Distribution

The groundwater analytical and field parameter data reflect the influence of the waste disposal activities on groundwater quality at the CSWF. As previously reported, wells within or immediately adjacent to the disposal area continue to report elevated concentrations relative to background conditions of the following parameters of interest:

- specific conductivity
- nitrate/nitrite
- sulfate
- total dissolved solids
- arsenic
- iron
- manganese
- vinyl chloride

These elevated parameter concentrations typically occur within or immediately adjacent to the unlined waste disposal cells (either due to leaching from the landfill, LFG, or simply mobilization due the landfill's presence). As previously reported for this site, the migration of these contaminants appears to be attenuating beneath the facility, as evidenced by the reduced concentrations of target analytes at monitoring wells located 400 to 750 feet downgradient of the disposal areas. The results confirm that site contaminants remain confined to the County property.

Groundwater quality impacts are generally more pronounced in the shallow aquifer wells than in the deep aquifer wells. The primary exception to this statement is found in deep aquifer wells E2D and E7D, which contain elevated concentrations of vinyl chloride among other constituents. However, it is interesting to note that vinyl chloride levels in these same wells appear to be gradually declining when compared to previous year's results. In addition, groundwater samples

recently collected from downgradient wells E9D and E10D have never reported the presence of vinyl chloride.

3.3.2 Temporal Trends

A statistical analysis of parameters exceeding groundwater quality criteria (specific conductivity, total nitrate/nitrite, sulfate, TDS, arsenic, iron, manganese, and vinyl chloride) was performed for both short (most recent two years) and long (all available data) term data trends. A summary of statistical parameters and the Mann-Kendall Trend analysis for these eight parameters can be found in Table 7. In addition, time series diagrams (covering the last 5-years) for additional selected parameters of interest are provided in Appendix C. These analyses were performed using AquaChem (ver. 2014.1) software and modules of Microsoft Excel (ver. 2016).

As noted in previously reports, both increasing and decreasing long-term trends have been documented for these parameters throughout the CSWF. However, fewer short-term statistically significant trends are observed for the same Aquifer 1, Aquifer 2 and the water supply (WS) wells, as summarized in the following table.

Summary of Short-Term (2016-2017) Concentration Trends			
Parameter	**Aquifer Type**	**Wells with Increasing Trends**	**Wells with Decreasing Trends**
Specific Conductance	1	E1D, NE1S, SE1S	C1S
	2	N3D	E2D
	WS	None	None
Nitrate/Nitrite, total	1	E4S	None
	2	N2D	None
	WS	None	None
Sulfate	1	None	C1S
	2	E2D, N5S, N5D	None
	WS	None	None
TDS	1	E1D	C1S
	2	None	None
	WS	None	None
Arsenic	1	None	None
	2	None	None
	WS	None	None
Iron	1	None	None
	2	None	None
	WS	None	None
Manganese	1	E1D	S10S
	2	None	None
	WS	None	None
Vinyl chloride (not detected in WS wells)	1	None	E2S
	2	None	E2D

These short-term (2 year) trends are also discernable in the 5-year time series diagrams (C1 though C34) attached to Appendix C. As illustrated by these time-series charts, few of the observed short term increasing trends show large concentration changes.

3.3.3 Groundwater Geochemistry

The geochemical character of the groundwater samples collected from Aquifer 1, Aquifer 2 and the water supply wells during 2017 was evaluated using the Piper diagrams and cation/anion balance tables attached to Appendix C. As illustrated on the Piper diagrams, the water samples obtained from Aquifer 1, Aquifer 2 and water supply wells typically exhibit similar geochemical signatures. As noted for past monitoring years, these diagrams indicate that the dominant anion in the groundwater samples continues to be bicarbonate, while the cations are still dominated by calcium and magnesium.

Groundwater cation/anion balance calculations were also used to assess the geochemical character of the water samples. Ideally, after the major anions and cations present in a sample are determined, the sum of the positive cations (in milliequivalents per liter [meq/L]) should approximately equal the sum of the negative anions (Hem 1986). All natural waters should be electroneutral; however, differences can arise between dissolved cations and anions in groundwater as measured by an analytical laboratory due to a number of factors including: presence of colloidal fractions, systematic error in preparation and analysis of samples, malfunction of/poorly calibrated equipment, major species omitted from analysis, the presence of unusually high concentrations of cations/anions, and not all ions present in water are included in the balance calculation. Due to these potential issues, differences in the ion balance can be difficult to assess for imbalances due to groundwater impacts.

The range of the sum of ions and balance of ions observed at the CSWF during the 2017 compliance period typically reported relative percent differences (RPD) less than (+/-) five percent. Positive values indicate that the sum of the cations is greater than the sum of the anions. For current reporting period, only one groundwater well location (S10S) reported RPDs (11.43 and 13.09 percent in April and October, respectively) outside (+/-) ten percent. Ion balances outside a ten percent RPD threshold may be due to possible errors associated with analytical limitations in the measurements (as previously discussed) or potential low level impact from human activities at the site.

4.0 LANDFILL GAS

A LFG migration control system, consisting of a perimeter air injection system (along the south, east, and west edge of the property) was installed at the landfill in 1988 (Figure 10). The original gas migration control system was deactivated in May 2005, coincident with the activation of the existing LFG extraction wells (described below).

Currently, the County MSW and CDL landfills employ active gas collection and control measures which consist of a LFG extraction system and an SVE system as shown on Figures 11 and 12. A cross sectional view of these systems is shown on Figure 13. Each of these systems includes a series of extraction wells and a gas conveyance system. The LFG system also employs treatment through combustion in a flare. In early 2005, system upgrades included the addition of SVE wells, LFG extraction wells, replacement plumbing components, a new gas conveyance system, replacement of a condensate sump, and an upgraded flare control. An additional SVE well (VGW-9) was installed in 2008. New LFG extraction wellheads were installed on all of the vertical and horizontal extraction wells during 2014. The upgraded wellheads allowed for better flow adjustment control and accurate flow measurement during low flow conditions.

In February 2014, the blower on the LFG extraction system failed and was replaced with the SVE blower. New blowers were subsequently installed for both the LFG system and the SVE system in February 2015. The new blower for the SVE system was observed to be seized during the June 2015 monitoring event. It was returned to the manufacturer for diagnostics and returned to service in September 2015. During the latter half of 2016, additional repairs and adjustments were made to the LFG blower and flare unit to correct system interruptions attributed to lower combustible gas generation and flare ignition issues. Both the LFG and SVE systems operated normally throughout 2017.

4.1 COMPLIANCE MONITORING ACTIVITIES

LFG monitoring is conducted quarterly to provide an assessment of the subsurface landfill gas conditions at the site and to confirm compliance with regulatory criteria for subsurface methane concentrations. LFG monitoring procedures are detailed in the Landfill Gas Monitoring Plan, 2008 Revision, Coupeville Solid Waste Facility, prepared by SCS (April, 2008). The monitoring program activities involve recording primary LFG (methane, carbon dioxide, and oxygen) concentrations and relative soil pressures, if applicable.

The LFG probes that are currently monitored include:

- Perimeter Probes (9 total)
- Building Probes (6 total)
- On-site structures - Animal Shelter (5 locations) and Scale House (2 locations)

LFG probe and structure monitoring locations are illustrated on Figure 10. Note that many of the probe locations include a shallow and deep probe (S and D designations, respectively). Also, the

animal shelter building was locked and vacant throughout 2017, and was not accessible for LFG monitoring.

4.1.1 Field Procedures

LFG probes were monitored in the field using a single, portable, multi-gas analyzer. The portable gas analyzer measures methane and carbon dioxide with a dual wavelength infrared cell with a reference channel. Oxygen is measured with an electro-chemical cell and the pressure is measured with a transducer. The gas analyzer was calibrated prior to, and after, each monitoring event. Field monitoring was conducted in accordance with Section 4 of the Landfill Gas Monitoring Plan. Field activities were documented in the field logs. Both field and calibration logs are included in Appendix A.

General weather conditions were noted during and preceding each monitoring event. Field documentation is included in Appendix A. Atmospheric pressure fluctuations can influence LFG concentration and pressure in the probes. Higher LFG concentrations are typically observed at the end of significantly falling barometric pressure trend. To assist with interpreting these data, barometric pressure trends were noted prior to and during each LFG monitoring event. Barometric pressure trends recorded over the course of the 2017 sampling events are included in Appendix D.

4.2 RESULTS

The following results are organized by LFG monitoring location. Due to instrument limitations, concentrations of methane and/or carbon dioxide less than (<) 0.3 percent by volume are not considered significant given the sensitivity of the field instrument at low concentrations. The LFG monitoring results for 2017 are presented in Table 8.

4.2.1 Landfill Gas Probes

The probe results represent stabilized sampling conditions after purging at least one probe casing volume. Both stabilized readings and short-term readings of elevated pressures (“spikes”) at a probe may indicate the potential presence of LFG within the landfill.

Similar to the preceding compliance year (2016), detectable methane concentrations were measured in three LFG probe locations (GP-30, GP-S6 and GP-15) during 2017. The GP-30 probes are completed within refuse and are where elevated methane concentrations are expected and have been historically observed. Methane concentrations at this location ranged widely, from <0.3 to 48.3 percent by volume in 2017. The GP-S6 probes (situated near the waste cell just north of the animal shelter) also continued to report methane levels ranging between <0.3 to 14.9 percent by volume. In the latter half of 2017, the GP-15 probes (located near the southeast end of the waste cell) reported methane between 3.2 and 9.8 by percent volume.

The methane detections reported in GP-S6 and GP-15 are suspected to be residual effects from several LFG system interruptions/repairs that occurred in late 2016. Subsequent adjustments to the LFG extraction system timer may have allowed LFG to accumulate along the southern edge

of the landfill. Further adjustments to the LFG system timer and well tuning regime were initiated in late 2017 (and continue through the present) to reduce or completely eliminate the accumulation of methane in this area. It should also be noted that none of the affected probes are compliance monitoring locations.

Carbon dioxide was observed during the reporting period in all LFG probes, ranging from less than 0.3 to 20.9 percent by volume. Carbon dioxide was not detected above 0.3 percent by volume in probe GP-23-78 during the March monitoring event. Depressed oxygen concentrations were recorded during the reporting period in all of the LFG probes at values ranging between 0.0 and 20.1 percent by volume. Oxygen concentrations above 20.3 percent by volume were observed at GP-13D and GP-20-78 in March, and GP-13S and GP-13D in May. Representative relative (static) pressure measured in the perimeter LFG probes during 2017 ranged from -0.09 to +0.39 inches of water.

4.2.2 Structures - Animal Shelter and Scale House

Methane was not observed in the scale house/office during the 2017 monitoring events. Carbon dioxide was detected above 0.3 percent by volume (between 0.4 and 1.0 percent by volume) at the scale house/office during the same period. Depressed oxygen was not measured in this structure during 2017.

The animal shelter has remained vacated and inaccessible since the fall of 2015. This building was locked and not accessible for monitoring throughout the 2017 reporting period.

4.3 LANDFILL GAS EVALUATION

LFG production at the CSWF likely reached its peak between 1 and 3 years after waste disposal ceased (1978 for the Town of Coupeville Landfill, 1991 for the County MSW Landfill and 2001 for the County CDL Landfill). Gas production is expected to be declining due to the nature of the waste decomposition processes.

For this site, the dominant mechanism for LFG movement in the soil is diffusion (movement from a high concentration to low concentration) due to the age of the waste and very low gas production. This method of LFG movement is much less pronounced as opposed to convective driven LFG movement (movement from high pressure to low pressure), which is predominant during active filling and within 10 years after filling has ceased. For the most part, the slow movement of LFG appears to allow the methane to oxidize before reaching the perimeter monitoring probes.

The 2017 monitoring results corroborate that LFG (combined methane and carbon dioxide) remains present in the soils surrounding the disposal areas at relatively low and declining concentrations. However, due to the age of waste, very low LFG production, and the method of LFG movement within the surrounding geologic formation (sandy/gravelly soils), methane is generally not observed at the compliance monitoring locations.

5.0 CONTAMINANT SOURCE CONTROL OPERATIONS

Contaminant source control systems operating at the CSWF include stormwater collection from the waste disposal areas, LFG extraction from the waste mass, and soil vapor extraction in the vadose soils beneath the landfill. These systems operated normally throughout 2017.

5.1 OPERATIONAL ACTIVITIES

5.1.1 Landfill Gas and Soil Vapor Extraction

Routine operations began at the upgraded LFG extraction system and SVE system on November 22, 2005 when the automated timers were installed for both the LFG and SVE systems. Blower motor hours for each system are manually recorded to track the operation of each system.

LFG and SVE system operations and monitoring activities consisted of obtaining field measurements of primary gas composition, gas temperature, well pressure (vacuum), system pressure, and flow from each of the LFG extraction wells, SVE wells, and blower inlets for each system. Monitoring is conducted approximately every 45 days. Adjustments are made as necessary to maintain anaerobic conditions for the LFG extraction wells. Monitoring of these systems is conducted to provide an assessment of the extraction system performance and effects of removing soil vapor from the vadose zone surrounding the disposal areas.

From November 22, 2005 through late-December, 2017, the LFG extraction system operated an average of 6.4 hours per weekday and the SVE system operated an average of 11.2 hours per weekday, as shown on Table 9. These operational times are intended to balance extraction with the generation of LFG. If extraction exceeds gas generation, oxygen may be pulled into the landfill, which could create a fire hazard. Furthermore, drawing oxygen into the system prevents the LFG treatment system (flare) from operating correctly. Excessive extraction of native soil gas could induce migration of LFG from the waste mass to native soil when LFG is not being actively extracted.

5.1.1.1 Monitoring Activities

Monitoring locations, LFG extraction wells, SVE wells, and blower inlets are shown on Figures 10 through 12. These locations are monitored for primary LFG constituents (methane, carbon dioxide, and oxygen) using a single, portable, multi-gas analyzer. In addition, gas temperature, well pressure, system pressure and flow were obtained from each of the extraction wells and blower inlets. Adjustments to individual well extraction rates are conducted on an as needed basis to maintain anaerobic conditions.

The monitoring locations are designated as follows:

- Vertical LFG Extraction Wells (five locations prefixed by VGW-#)
- Horizontal LFG Extraction Wells (nine locations prefixed by HGW-#)
- Vertical SVE Wells (four locations prefixed by VGW-# NS)
- Blower Inlets (BL-LFG and BL-SV)

General weather conditions were noted during and preceding the monitoring events. As previously noted, atmospheric pressure fluctuations can influence gas concentrations and pressure in gas wells. Barometric pressure trends prior to sampling were recorded from the nearest available weather station (Appendix D).

5.1.2 Stormwater Collection from the Waste Disposal Areas

A stormwater drainage and collection system was installed in 2005 at the interface of the CDL/MSW landfills. The system collects stormwater runoff and water which has infiltrated into the cover soils of the MSW landfill. This water is then pumped into a ditch on the west side of the CDL landfill where it flows to an infiltration pond near the western property boundary. Discharge (in cubic feet) from the stormwater collection system sump (near monitoring well C1S) has been monitored weekly since October 25, 2005 by CSWF personnel, and continued through 2017.

5.2 RESULTS

5.2.1 Landfill Gas Collection from In-Refuse and Native Soil Extraction Points

The performance of the LFG and soil vapor extraction systems is shown on Figure 15. Operating parameter results for each system are summarized on Tables 10 and 11.

The LFG extraction system was operated under a daily intermittent cycle for a total 28,385 hours between November 22, 2005 and December 26, 2017. During this time the system has extracted approximately 79,612,400 cubic feet of LFG from the refuse mass. The rate of extraction was initially at 120 standard cubic feet per minute (scfm), but has declined to an average of approximately 35 scfm through 2017, as extraction rates have converged with gas generation rates. The LFG composition at the blower inlet averaged 48.3 percent methane, 19.2 percent carbon dioxide, and 1.0 percent depressed oxygen during 2017.

The SVE system operated under a daily intermittent cycle for a total 49,151 hours from November 22, 2005 through December 26, 2017. During this time it has extracted approximately 126,548,500 cubic feet of soil vapor/LFG from the native soil below the disposal areas. The rate of extraction was approximately 20.4 scfm during 2017. The soil vapor/LFG composition at the blower inlet averaged 4.0 percent methane, 10.2 percent carbon dioxide, and 6.6 percent oxygen in 2017.

5.2.2 Stormwater Collection from the Waste Disposal Areas

As shown in Table 9 and Figure 14, over the period between October 25, 2005 and December 26, 2017, a total of 224,448 gallons of stormwater were pumped from the collection system sump and discharged to the infiltration pond west of the disposal areas. A total of 10,759 gallons of stormwater were pumped through the collection system during the 2017 reporting period.

5.3 EVALUTATION OF CONTAMINANT SOURCE CONTROL OPERATIONS

5.3.1 Landfill Gas Collection from In-Refuse and Native Soil Extraction Points

The gas control system at the CSWF has been enhanced to provide additional source control of LFG (especially methane) and facilitate the removal of these gases from the vadose zone. Removal of LFG from the vadose zone also provides a measure of source control for groundwater quality. In 2005, additional LFG extraction wells were installed in the MSW and CDL landfills to provide better extraction coverage throughout the waste mass. In addition, three SVE wells were installed to extract soil vapor/gas from the vadose zone below the MSW and CDL landfills. In late 2005, the system began routine operations on a daily intermittent basis. An additional vertical LFG extraction well was installed at the site in April 2008. A program has been initiated to monitor gas quality and flow and adjust extraction rates and times to optimize both LFG and soil vapor extraction.

The gas flow rate has declined over the operating period to reflect the balancing of the LFG wells in an attempt to achieve extraction at the same rate as gas generation. As this balancing (tuning) continues, source control (to prevent LFG from entering the vadose zone) will continue.

Removal of soil vapor/gas from the vadose zone continues to increase with each day of operation. Through late-December 2017, after approximately 4,350 days of operations at an average of 11.2 hours per day, approximately 126,548,500 cubic feet of soil gas/LFG has been removed from the vadose zone. During 2017, the gas composition at the SVE blower inlet averaged 4.0 percent methane, 10.2 percent carbon dioxide, and 5.5 percent oxygen, with various trace compounds that may contribute to groundwater degradation. Before activation of the soil vapor extraction system, an estimated 51 to 80 million cubic feet of LFG was displacing air and occupying the void space in the soil in the vadose zone surrounding the landfill. This range is based on the estimated extent of the gas plume and a range of soil densities.

The LFG extraction system is successfully controlling LFG generated within the refuse mass, thereby providing source control of LFG migration to the vadose zone. The success of this system's operations is evident by:

- The volume of LFG removed from the landfill (79,612,400 cubic feet)
- Well coverage/influence over greater volume of refuse mass
- Ability to adjust well extraction rates to match gas generation rates

Similarly, the SVE system is successfully removing LFG from the vadose zone, and thereby providing an additional measure of source control for groundwater contamination. The success of this system's operations is evident by:

- The volume of soil vapor removed to date (126,548,500 cubic feet)
- The gas composition at the blower inlet has averaged 4.0 percent methane, 10.2 percent carbon dioxide, and 6.6 percent oxygen in 2017.

5.3.2 Stormwater Collection from the Waste Disposal Areas

For every inch of rain that falls at the CSWF, as much as 1.000 gallons of stormwater may be pumped from the collection system sump near monitoring well C1S for discharge to the infiltration pond west of the disposal areas. A total of 10,759 gallons of stormwater was removed during the 2017 reporting period. Before this improvement, this surface runoff and infiltration water flowed into the CDL Landfill.

6.0 RECOMMENDATIONS

The 2017 groundwater and LFG monitoring results for the CSWF remain generally consistent with those reported for previous compliance years. Vinyl chloride continues to represent the primary contaminant of concern in site groundwater. The most elevated vinyl chloride detections are reported in Aquifer 2 monitoring wells E2D and E7D, both of which are situated on the eastern flank of the closed CDL/MSW disposal cells. Lower level vinyl chloride exceedances continue to be observed in Aquifer 2 wells further to the northeast (downgradient) of the wells bordering the landfill. Low level vinyl chloride exceedances are also reported in several of the Aquifer 1 wells situated near the disposal cells.

However, groundwater samples collected from a pair of Aquifer 2 "sentinel" wells (E9D and E10D) situated hydrologically downgradient of the observed vinyl chloride plume do not report detectable levels of VOCs (note: isolated acetone and carbon disulfide detections in these two wells during the second quarter 2017 are suspected laboratory artifacts). These observations corroborate the findings of past groundwater modelling efforts which concluded that VOCs originating from the CSWF disposal cells are naturally attenuating beneath the facility, and that vinyl chloride has not, and will not in the future, migrate beyond County property. During 2017, the vinyl chloride concentrations remained stable or were slightly lower in most of the groundwater monitoring wells.

Groundwater elevations in both Aquifer 1 and Aquifer 2 have been observed to have gradually increased over the past five years. However, this trend appears to have been partially mitigated in the Aquifer 1 wells immediately next to the CSWF disposal areas. This is likely due to the upgraded stormwater drainage and collection system at the interface of the CDL/MSW landfills. Prior to this improvement, the runoff and infiltration water flowed into the CDL cells where it could potentially produce leachate. Continued operation of the sump pump system remains an integral part of the source reduction efforts at the CSWF.

During the fall of 2017, the CSWF presented ICPH and Ecology with a proposed groundwater monitoring optimization program intended to enhance the effectiveness of the sampling regime. After receipt of agency comments and subsequent technical discussions, a modified optimized groundwater monitoring program was agreed to by the CSWF and ICPH. Under the optimized monitoring program the monitoring frequency for the majority of facility wells will be reduced to a semi-annual basis. However, a total of 11 facility wells will continue to be monitored quarterly. The latter wells will include the six VOC assessment wells (ED5, ED6, ED7, ED8, ED9 and ED10), which will be routinely tested for the CSWF's landfill inorganic parameter suite, in addition to VOCs. The optimized program will be implemented in 2018, beginning with the first quarter monitoring event. The facility's groundwater Sampling and Analysis Plan (SAP) will be updated in early 2018 to reflect the optimized program.

LFG monitoring results to date confirm the positive effects of removal of landfill gases from the vadose zone. Based on the estimated volume of LFG in the vadose zone and number of unaffected gas probes, continued operation of the LFG and SVE systems is recommended to continue to remove gases from the vadose zone and achieve a balanced extraction rate for the LFG wells. In particular, LFG system tuning during the first half of 2018 will need to focus on

reducing the recent accumulation of methane around the southern edge of the landfill (near GP-S6D and GP-15). However, the current level of operating, monitoring and system balancing will also need to be maintained to ensure optimum performance of both systems, while preventing potential detrimental conditions such as air intrusion and pulling of LFG into the vadose zone.

TABLES

Table 1A. Historical Groundwater Elevations - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Location	C1S		E1D		E1S		E2S		E4S		N1SR		N2S		N3S		N4S		NE1S		S10S		S11S		SE1D		SE1S		W1S	
Reference Elevation (ft. msl)	161.41		203.98		204.26		202.72		205.04		191.84		203.83		204.87		202.61		208.02		205.65		204.99		206.14		206.03		195.15	
Monitoring Event	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Q417	90.90	70.51	137.65	66.33	137.78	66.48	137.53	65.19	141.02	64.02	94.42	98.74	135.94	67.89	139.90	64.97	122.85	79.76	144.46	63.56	135.70	69.95	134.52	70.47	139.60	66.54	139.36	66.67	109.71	85.44
Q317	90.75	70.66	137.61	66.37	137.92	66.34	137.39	65.33	140.87	64.17	92.82	100.34	136.03	67.80	139.38	65.49	123.31	79.30	144.16	63.86	135.70	69.95	134.41	70.58	139.75	66.39	139.37	66.66	109.73	85.42
Q217	90.70	70.71	137.78	66.20	137.91	66.35	137.44	65.28	140.85	64.19	91.33	101.83	136.11	67.72	139.48	65.39	123.56	79.05	--	--	135.73	69.92	134.59	70.40	139.83	66.31	139.51	66.52	109.70	85.45
Q117	90.43	70.98	137.96	66.02	138.26	66.00	137.69	65.03	141.33	63.71	91.80	101.36	137.21	66.62	140.05	64.82	123.86	78.75	144.44	63.58	136.00	69.65	134.82	70.17	139.90	66.24	139.85	66.18	109.72	85.43
Q416	90.17	71.24	138.03	65.95	138.19	66.07	137.72	65.00	141.47	63.57	92.87	100.29	136.65	67.18	139.67	65.20	123.92	78.69	144.68	63.34	135.96	69.69	134.87	70.12	140.31	65.83	139.90	66.13	109.45	85.70
Q316	89.84	71.57	138.12	65.86	138.38	65.88	137.88	64.84	141.45	63.59	91.40	101.76	136.90	66.93	140.13	64.74	124.43	78.18	144.64	63.38	135.94	69.71	134.92	70.07	140.28	65.86	139.90	66.13	109.73	85.42
Q216	90.18	71.23	138.22	65.76	138.52	65.74	138.06	64.66	141.49	63.55	90.07	103.09	137.50	66.33	140.42	64.45	124.45	78.16	144.66	63.36	136.04	69.61	135.04	69.95	140.46	65.68	140.09	65.94	109.72	85.43
Q116	90.61	70.80	138.30	65.68	138.58	65.68	138.22	64.50	141.69	63.35	90.53	102.63	137.75	66.08	140.74	64.13	124.48	78.13	144.71	63.31	136.14	69.51	135.04	69.95	140.38	65.76	140.10	65.93	109.66	85.49
Q415	91.50	69.91	138.47	65.51	138.72	65.54	138.30	64.42	141.86	63.18	94.62	97.22	137.00	65.04	140.71	63.12	124.24	80.63	145.20	62.82	136.41	71.61	135.12	70.53	140.56	64.43	140.19	65.84	109.64	85.51
Q315	91.65	69.76	138.50	65.48	138.76	65.50	138.39	64.33	141.74	63.30	92.84	99.00	137.60	65.04	140.56	63.27	124.23	80.64	144.88	63.14	136.19	71.83	135.02	70.63	140.35	64.64	140.05	65.98	109.65	85.50
Q215	92.06	69.35	138.60	65.38	138.89	65.37	138.30	64.42	141.88	63.16	91.69	100.15	--	--	140.55	63.28	123.80	81.07	145.00	63.02	136.16	71.86	135.15	70.50	140.40	64.59	140.03	66.00	109.52	85.63
Q115	--	--	138.53	65.45	138.79	65.47	138.43	64.29	141.87	63.17	92.65	99.19	--	--	140.80	63.03	109.65	95.22	147.00	61.02	136.55	71.47	135.30	70.35	140.57	64.42	140.20	65.83	109.65	85.50
Q414	--	--	138.37	65.61	138.63	65.63	138.47	64.25	142.00	63.04	94.55	97.29	--	--	140.32	63.51	123.70	81.17	145.20	62.82	136.56	71.46	135.35	70.30	140.56	64.43	140.22	65.81	109.62	85.53
Q314	--	--	138.68	65.30	138.93	65.33	138.55	64.17	141.99	63.05	93.31	98.53	--	--	140.45	63.38	124.18	80.69	145.10	62.92	136.85	71.17	--	--	140.70	64.29	140.37	65.66	109.60	85.55
Q214	91.46	69.95	138.75	65.23	138.95	65.31	138.61	64.11	142.00	63.04	92.19	99.65	--	--	140.65	63.18	124.76	80.11	145.10	62.92	136.72	71.30	135.44	70.21	140.72	64.27	140.37	65.66	109.77	85.38
Q114	--	--	138.74	65.24	139.00	65.26	138.47	64.25	141.97	63.07	93.24	98.60	--	--	140.65	63.18	124.00	80.87	144.44	63.58	136.66	71.36	135.41	70.24	140.67	64.32	140.34	65.69	109.65	85.50
Q413	91.46	69.95	138.96	65.02	139.25	65.01	138.75	63.97	142.21	62.83	93.51	98.33	--	--	--	--	--	--	145.45	62.57	137.00	71.02	135.72	69.93	140.98	64.01	140.62	65.41	109.70	85.45
Q313	91.10	70.31	138.90	65.08	139.20	65.06	138.63	64.09	142.15	62.89	93.95	97.89	--	--	140.95	62.88	--	--	145.30	62.72	136.70	71.32	135.70	69.95	141.05	63.94	140.69	65.34	109.71	85.44
Q213	91.40	70.01	139.13	64.85	139.50	64.76	138.91	63.81	142.31	62.73	91.05	100.79	--	--	140.77	63.06	--	--	145.35	62.67	136.60	71.42	135.75	69.90	141.13	63.86	140.80	65.23	109.58	85.57
Q113	91.88	69.53	139.00	64.98	139.40	64.86	139.00	63.72	142.30	62.74	91.47	100.37	--	--	141.00	62.83	124.00	80.87	145.34	62.68	137.12	70.90	135.80	69.85	141.80	63.19	140.85	65.18	109.75	85.40
Q412	--	--	139.20	64.78	139.51	64.75	139.10	63.62	142.45	62.59	92.71	99.13	--	--	141.50	63.37	--	--	145.70	62.32	137.10	68.55	133.65	71.34	142.91	63.23	140.95	65.08	109.80	85.35
Q312	92.45	68.96	139.28	64.70	139.58	64.68	139.11	63.61	142.51	62.53	91.18	100.66	--	--	141.30	63.57	123.71	78.90	145.60	62.42	137.12	68.53	135.08	69.91	140.28	65.86	140.72	65.31	109.70	85.45
Q212	--	--	139.60	64.38	139.91	64.35	139.39	63.33	145.75	59.29	91.60	100.24	--	--	141.85	63.02	123.95	78.66	145.90	62.12	137.55	68.10	136.25	68.74	141.62	64.52	141.27	64.76	109.80	85.35
Q112	--	--	139.70	64.28	140.00	64.26	139.53	63.19	143.12	61.92	93.65	98.19	--	--	141.80	63.07	123.88	78.73	146.20	61.82	137.72	67.93	136.40	68.59	142.05	64.09	141.54	64.49	109.80	85.35

Notes:
Monitoring Event code = Q (quarter), 3-digit number: Quarter of Year (1-digit) and Year designation (2-digit).
DTW = Depth to water (feet below the top of casing), WLE = Water level elevation (feet-msl)
-- = No measurement available
The WLEs between 85.47 and 85.61 feet in well W1S reflect the elevation of stagnant water in the well's sump.

Table 1B. Historical Groundwater Elevations - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Location	E2D		E3D		E4D		N1D		N2D		N3D		N5D		N5S		NE1D		S11D		W1D		W2S	
Reference Elevation (ft-msl)	202.52		204.13		205.40		191.51		203.48		204.39		204.84		205.00		207.82		205.07		194.80		203.68	
Monitoring Event	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Q417	148.06	54.46	150.48	53.65	153.38	52.02	136.17	55.34	147.96	55.52	150.21	54.18	149.24	55.60	149.45	55.55	158.02	49.80	146.26	58.81	139.08	55.72	148.00	55.68
Q317	147.86	54.66	150.65	53.48	153.22	52.18	136.00	55.51	147.89	55.59	149.83	54.56	149.42	55.42	149.66	55.34	157.86	49.96	145.95	59.12	139.04	55.76	147.96	55.72
Q217	147.94	54.58	150.29	53.84	152.95	52.45	136.01	55.50	147.95	55.53	149.93	54.46	149.53	55.31	149.76	55.24	--	--	146.10	58.97	139.05	55.75	148.04	55.64
Q117	148.15	54.37	150.85	53.28	153.46	51.94	136.41	55.10	148.36	55.12	150.34	54.05	149.86	54.98	150.10	54.90	158.07	49.75	146.51	58.56	139.42	55.38	148.41	55.27
Q416	148.24	54.28	151.03	53.10	153.69	51.71	136.40	55.11	148.29	55.19	150.23	54.16	149.80	55.04	150.02	54.98	158.31	49.51	146.56	58.51	139.50	55.30	148.50	55.18
Q316	148.45	54.07	151.29	52.84	153.71	51.69	136.62	54.89	148.43	55.05	150.49	53.90	149.99	54.85	150.22	54.78	158.24	49.58	146.72	58.35	139.64	55.16	148.57	55.11
Q216	148.62	53.90	151.31	52.82	153.90	51.50	136.84	54.67	148.68	54.80	150.80	53.59	150.12	54.72	150.31	54.69	158.44	49.38	146.90	58.17	139.85	54.95	148.80	54.88
Q116	148.64	53.88	151.18	52.95	153.84	51.56	136.95	54.56	148.94	54.54	150.87	53.52	150.03	54.81	150.63	54.37	158.50	49.32	146.91	58.16	139.94	54.86	148.83	54.85
Q415	148.75	53.77	151.31	52.82	153.84	51.56	136.94	54.57	148.85	54.63	150.93	53.46	150.44	54.40	150.70	54.30	158.73	49.09	140.56	**64.51**	140.01	54.79	148.77	54.91
Q315	149.00	53.52	151.38	52.75	153.99	51.41	137.00	54.51	148.82	54.66	150.97	53.42	150.29	54.55	150.52	54.48	158.52	49.30	147.05	58.02	140.05	54.75	148.83	54.85
Q215	148.95	53.57	151.51	52.62	154.10	51.30	137.17	54.34	149.01	54.47	151.00	53.39	150.08	54.76	150.25	54.75	158.62	49.20	147.00	58.07	140.15	54.65	148.99	54.69
Q115	148.90	53.62	151.46	52.67	154.12	51.28	137.00	54.51	149.09	54.39	151.17	53.22	150.65	54.19	150.90	54.10	158.70	49.12	147.30	57.77	140.20	54.60	149.18	54.50
Q414	149.00	53.52	151.39	52.74	154.28	51.12	137.29	54.22	149.14	54.34	150.96	53.43	150.25	54.59	150.45	54.55	158.75	49.07	147.15	57.92	140.30	54.50	149.25	54.43
Q314	149.10	53.42	151.78	52.35	154.48	50.92	132.35	**59.16**	149.20	54.28	151.24	53.15	150.66	54.18	150.89	54.11	158.90	48.92	147.42	57.65	140.56	54.24	149.31	54.37
Q214	149.20	53.32	151.70	52.43	154.24	51.16	137.35	54.16	149.25	54.23	151.20	53.19	150.62	54.22	150.88	54.12	158.88	48.94	147.38	57.69	147.19	**47.61**	149.31	54.37
Q114	149.05	53.47	151.70	52.43	154.33	51.07	137.41	54.10	149.23	54.25	151.27	53.12	150.76	54.08	151.00	54.00	159.00	48.82	147.36	57.71	140.41	54.39	--	--
Q413	149.40	53.12	152.00	52.13	154.70	50.70	137.60	53.91	149.60	53.88	151.60	52.79	150.96	53.88	151.28	53.72	159.20	48.62	147.70	57.37	140.70	54.10	149.70	53.98
Q313	149.50	53.02	152.00	52.13	154.70	50.70	137.70	53.81	149.60	53.88	151.60	52.79	151.10	53.74	151.40	53.60	155.30	**52.52**	147.80	57.27	140.80	54.00	149.70	53.98
Q213	149.55	52.97	152.33	51.80	154.72	50.68	137.80	53.71	149.76	53.72	151.47	52.92	151.22	53.62	151.33	53.67	159.52	48.30	147.90	57.17	140.90	53.90	149.83	53.85
Q113	149.60	52.92	152.10	52.03	154.78	50.62	137.90	53.61	149.82	53.66	151.71	52.68	151.30	53.54	151.59	53.41	159.15	48.67	147.96	57.11	140.95	53.85	149.87	53.81
Q412	149.56	52.96	152.58	51.55	155.24	50.16	138.10	53.41	149.99	53.49	152.21	52.18	151.25	53.59	151.85	53.15	159.90	47.92	148.60	56.47	--	--	150.08	53.60
Q312	147.70	54.82	152.62	51.51	155.05	50.35	138.00	53.51	149.91	53.57	152.05	52.34	151.40	53.44	151.70	53.30	159.62	48.20	148.18	56.89	141.11	53.69	150.01	53.67
Q212	150.10	52.42	152.66	51.47	155.07	50.33	138.40	53.11	150.22	53.26	152.00	52.39	151.55	53.29	151.75	53.25	159.90	47.92	148.52	56.55	141.41	53.39	150.35	53.33
Q112	150.12	52.40	152.80	51.33	155.40	50.00	138.48	53.03	150.30	53.18	152.27	52.12	151.77	53.07	151.95	53.05	160.02	47.80	148.60	56.47	141.50	53.30	150.52	53.16

Notes:
Monitoring Event Code = Q (quarter), 3-digit number: Quarter of the year (1-digit) and Year designation (2-digit).
DTW = Depth to Water (feet below the top of casing), WLE = Water level elevation (feet-msl)
-- = No meausement available
Bold measuremnets are not used in historic groundwater evaluation due to anomolous results (i.e., suspected field measurement anomoly)

Table 2A. Field Parameter, General Chemistry, Inorganic Results, and Dicamba - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	C1S				E1D				E1S				E2S				E4S			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements																					
Dissolved Oxygen	mg/L	3.30	3.37	4.07	2.43	0.90	3.90	1.82	0.96	7.03	6.51	6.32	7.64	1.07	2.92	0.47	0.68	4.20	2.19	2.46	2.06
ORP	mV	76	135	111	155	162	111	87	156	98	84	97	77	128	111	112	132	301	52	82	139
pH	SU	6.3	6.7	6.7	6.8	6.7	7.4	7.1	7.2	6.8	7.2	7.0	6.9	6.6	7.1	6.9	7.0	6.8	7.4	7.0	7.1
Specific Conductivity	µS/cm	1234	1143	1064	990	1754	1718	1797	1765	1141	1172	1150	1104	1359	1369	1343	1404	1129	1206	1226	1184
Temperature	deg-C	12.2	12.8	14.3	13.4	11.1	11.6	12.2	11.7	8.4	11.4	12.2	11.6	11.5	13.8	12.9	13.1	9.8	10.8	11.8	11.1
Turbidity	NTU	1.35	1.49	0.73	0.42	4.18	1.53	0.62	0.31	1.68	9.25	7.21	1.52	7.75	1.68	1.37	0.53	6.02	10.37	0.60	2.32
General Chemistry																					
Alkalinity, Total	mg/L	450	430	390	360	800	820	840	830	360	360	360	350	610	610	610	600	520	520	540	520
Alkalinity, Bicarbonate	mg/L	450	430	390	360	800	820	840	830	360	360	360	350	610	610	610	600	520	520	540	520
Ammonia	mg-N/L	0.2 U	0.2 U	0.24	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U
Calcium	mg/L	160	150	140	120	160	170	180	180	120	130	130	130	160	170	180	180	140	150	160	150
Chemical Oxygen Demand	mg/L	15	15	11	10 U	10 U	10 U	10 U	10 U	10 U	14	10 U	10 U	10 U	10 U	10 U	10 U	98	10 U	12	10 U
Chloride	mg/L	5.5	6.2	3.9	3.2	70	66	72	70	95	95	100	93	22	23	20	22	44	46	42	46
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	60	56	53	47	110	110	110	120	46	51	49	48	63	67	75	75	54	56	61	56
Potassium	mg/L	6.3	5.7	5.8	5.3	8.8	8.8	9.4	9.8	6.1	6.4	6.4	6.4	7.2	7.8	8	8.5	6	6.3	7	6.3
Sodium	mg/L	32	26	26	23	44	45	46	49	27	28	29	28	31	34	35	36	31	31	34	30
Sulfate	mg/L	190	180	140	150	60	63	68	72	38	41	40	40	63	64	62	68	40	44	42	45
Total Dissolved Solids	mg/L	840	760	680	620	980	1000	1000	990	660	670	640	690	780	800	780	810	650	690	680	710
Total Nitrate/Nitrite	mg-N/L	4.5	4.9	3.8	3.1	0.071	0.15 U	0.15 U	0.15 U	13	12	12	12	8.4	7.8	8.2	7.7	1	1.1	1.3	1.4
Total Organic Carbon	mg/L	7.3	7.4	6.3	5.9	1.5	2.3	2.6	2.2	1.1	2	2.2	1.6	1.1	2.1	1.9	1.9	1.1	1.8	1.6	1.3
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00051	0.0004 U	0.0004 U	0.0004 U	0.00042	0.00049	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0024	0.0015	0.0019	0.0011	0.0061	0.0056	0.0058	0.0045	0.0024	0.0018	0.0025	0.0014	0.0032	0.0017	0.0027	0.0011	0.005 U	0.0027	0.0032	0.0024
Barium	mg/L	0.04	0.041	0.035	0.033	0.042	0.046	0.05	0.046	0.033	0.037	0.039	0.032	0.054	0.057	0.058	0.051	0.051	0.047	0.044	0.042
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0094	0.0093	0.0085	0.0086	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.014	0.014	0.017	0.012	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0067	0.0054	0.0049	0.0056
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00088	0.00074	0.00075	0.00079	0.00057	0.0004 U	0.0014	0.0004 U	0.00089	0.00072	0.001	0.00092	0.002 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0024	0.002 U	0.002 U	0.002 U	0.002 U	0.0022	0.01 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.00052	0.0008 U	0.0013	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.0008 U	0.0008 U
Manganese	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.045	0.044	0.048	0.049	0.02 U	0.02 U	0.02 U	0.02 U	0.36	0.39	0.46	0.47	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.0066	0.0059	0.0062	0.0057	0.0059	0.0053	0.006	0.0061	0.0074	0.0047	0.015	0.0035	0.0049	0.0043	0.0051	0.0048	0.015 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.005 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004	0.004 U	0.004 U	0.004 U	0.0074	0.0068	0.007	0.0065	0.0047	0.004	0.0048	0.004 U	0.0041	0.004 U	0.004 U	0.004 U	0.02 U	0.006	0.0059	0.0059
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.035 U	0.007 U	0.007 U	0.007 U
Herbicides																					
Dicamba	µg/L	—	—	—	—	—	—	—	—	0.89	2.2	1.3	0.98	—	—	—	—	—	—	—	—

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter

mV = milivolts

mg N/L = miligrams of nitrogen per liter

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

NTU = nepthelometric turbidity units

U = not detected above reporting limit

J = value estimated

H = analyzed outside of holdtime

— = well was not sampled

Table 2A. Field Parameter, General Chemistry, Inorganic Results, and Dicamba - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	N1SR				N2S				N3S				NE1S				S10S			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements																					
Dissolved Oxygen	mg/L	2.81	3.35	4.13	6.47	5.10	1.91	1.26	0.78	5.96	6.01	7.20	5.64	6.08	NS	6.90	6.14	0.94	1.07	1.00	1.23
ORP	mV	87	65	134	141	92	117	101	178	88	-28	122	185	94	NS	123	139	196	115	110	161
pH	SU	6.1	6.3	6.4	6.6	6.5	7.1	6.9	7.0	6.8	7.1	7.2	7.2	6.8	NS	7.2	7.3	6.6	7.1	7.0	7.1
Specific Conductivity	µS/cm	454	407	412	459	1580	1538	1550	1526	1064	1037	1084	1072	846	NS	863	892	1435	1384	1423	1390
Temperature	deg-C	11.5	12.2	13.0	12.5	11.9	12.6	14.9	13.5	11.7	12.1	14.0	12.7	11.2	NS	16.0	14.6	13.4	14.2	15.7	14.8
Turbidity	NTU	1.16	2.08	2.13	1.23	7.19	4.43	1.39	0.81	1.33	2.22	1.58	2.02	7.51	NS	9.84	0.87	11.33	1.71	0.63	1.10
General Chemistry																					
Alkalinity, Total	mg/L	200	190	190	200	710	710	700	680	460	440	440	450	330	NS	330	320	400	400	400	380
Alkalinity, Bicarbonate	mg/L	200	190	190	200	710	710	700	680	460	440	440	450	330	NS	330	320	400	400	400	380
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	NS	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U
Calcium	mg/L	34	32	32	36	170	180	180	180	130	130	130	140	100	NS	110	110	130	140	130	140
Chemical Oxygen Demand	mg/L	10 U	17	13	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	16	10 U	10 U	16	10 U	12
Chloride	mg/L	4.7	4.6	3.6	3.6	26	27	26	22	35	39	35	38	19	NS	18	19	51	56	59	55
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.21	0.2 U
Magnesium	mg/L	32	29	29	32	89	93	92	91	49	49	50	52	34	NS	36	38	79	83	78	82
Potassium	mg/L	3.3 U	3.3 U	3.3 U	3.3 U	9.4	9.7	10	10	6.4	6.2	6.3	6.7	5.3	NS	5.6	6	6.9	7	7	7.3
Sodium	mg/L	11	9.9	11	12	30	32	32	32	30	28	29	31	18	NS	18	19	29	31	30	32
Sulfate	mg/L	12	9.9	7.3	10	98	110	120	110	40	43	42	45	69	NS	67	71	89	98	95	100
Total Dissolved Solids	mg/L	290	250	240	270	940	960	930	910	630	620	650	640	520	NS	540	530	820	880	830	850
Total Nitrate/Nitrite	mg-N/L	3.8	1.7	1.2	2.6	7.6	6.6	6.5	5.6	6.1	5.7	6.1	5.7	6.5	NS	5.7	5.5	46	44	42	41
Total Organic Carbon	mg/L	1.7	2.4	2	2.4	1.9	2.9	3	2.3	1.1	1.4	2.3	1.5	1.2	NS	2.3	1.5	1.9	2.3	2.4	2.1
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00041	0.0004 U	0.0004 U	0.0004 U	0.00046	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0023	0.0021	0.0022	0.0018	0.0030	0.0014	0.0022	0.0011	0.0033	0.0028	0.0028	0.0024	0.0033	NS	0.0029	0.0023	0.0036	0.0022	0.0029	0.0020
Barium	mg/L	0.014	0.013	0.012	0.012	0.05	0.052	0.057	0.053	0.033	0.032	0.032	0.032	0.028	NS	0.032	0.029	0.035	0.034	0.037	0.033
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0027	0.0025	0.0025	0.0029	0.00061	0.0004 U	0.0004	0.00047	0.01	0.011	0.01	0.011	0.0039	NS	0.0042	0.004	0.0011	0.00069	0.0011	0.0012
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.0023	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002	0.0027	NS	0.0034	0.0048	0.002 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NS	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	NS	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U
Manganese	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NS	0.02 U	0.02 U	0.036	0.038	0.024	0.021
Nickel	mg/L	0.007	0.0065	0.0059	0.0059	0.0046	0.0046	0.0056	0.0047	0.003 U	0.003 U	0.003 U	0.003 U	0.0048	NS	0.0052	0.0048	0.0063	0.0057	0.0058	0.0052
Selenium	mg/L	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	NS	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NS	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.0047	0.0044	0.0046	0.0042	0.0057	0.0044	0.0048	0.0043	0.0062	0.0058	0.0054	0.0059	0.0058	NS	0.0053	0.0051	0.0058	0.0042	0.0046	0.0041
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	NS	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
Herbicides																					
Dicamba	µg/L	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter

mV = milivolts

mg N/L = miligrams of nitrogen per liter

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

NTU = nepthelometric turbidity units

U = not detected above reporting limit

J = value estimated

H = analyzed outside of holdtime

— = well was not sampled

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2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	S11S				SE1D				SE1S			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements													
Dissolved Oxygen	mg/L	0.25	0.19	0.29	0.19	1.16	1.26	1.08	0.65	4.46	3.86	4.45	3.15
ORP	mV	-168	-189	-90	-97	-102	-29	-30	-33	36	70	90	83
pH	SU	7.3	7.5	7.7	7.9	7.3	8.3	7.8	8.0	7.1	7.7	7.4	7.6
Specific Conductivity	µS/cm	906	896	912	902	936	963	955	956	853	871	864	867
Temperature	deg-C	9.8	10.1	10.9	10.3	9.5	10.3	11.1	10.4	9.8	10.1	10.6	10.2
Turbidity	NTU	1.57	1.49	1.01	0.97	4.78	8.09	2.61	2.83	1.34	2.33	0.55	1.31
General Chemistry													
Alkalinity, Total	mg/L	360	370	360	350	370	380	370	370	310	310	310	300
Alkalinity, Bicarbonate	mg/L	360	370	360	350	370	380	370	370	310	310	310	300
Ammonia	mg-N/L	0.2 U	0.2 U	0.21	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.21	0.5 U
Calcium	mg/L	77	82	80	79	69	74	70	73	73	75	74	76
Chemical Oxygen Demand	mg/L	10 U	10 U	11	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11
Chloride	mg/L	58	60	55	61	66	67	62	68	61	62	57	63
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	53	53	55	51	55	62	61	61	44	47	48	48
Potassium	mg/L	6.4	6.8	6.9	6.4	8.1	8.6	8	8.4	6	6.1	5.8	6.1
Sodium	mg/L	35	35	35	34	36	38	35	37	33	34	31	33
Sulfate	mg/L	27	30	28	31	25	27	25	27	38	40	38	41
Total Dissolved Solids	mg/L	480	520	540	530	530	530	520	530	500	500	490	490
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.15 U	0.15 U	0.4 U	0.05 U	0.15 U	0.15 U	0.15 U	1.3	1.2	1.2	1.2
Total Organic Carbon	mg/L	2	2.7	3.1	2.4	1.8	2.5	2.2	2.3	1.7	2.2	2.1	2
Metals													
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0066	0.0057	0.0057	0.0055	0.0130	0.0110	0.0110	0.0110	0.0067	0.0057	0.0060	0.0053
Barium	mg/L	0.031	0.03	0.031	0.03	0.047	0.047	0.044	0.043	0.024	0.024	0.024	0.023
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.00055	0.0004	0.0004 U	0.0087	0.0081	0.0074	0.0067
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.01 U	0.002 U	0.002 U	0.002 U	0.01 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.0008 U	0.0008 U
Manganese	mg/L	0.2	0.21	0.21	0.2	0.18	0.2	0.2	0.2	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.008 U	0.008 U	0.008 U	0.005 U	0.008 U	0.008 U	0.008 U	0.005 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.02 U	0.004 U	0.004 U	0.004 U	0.02 U	0.0047	0.0049	0.0045
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.035 U	0.007 U	0.007 U	0.007 U	0.035 U	0.007 U	0.007 U	0.007 U
Herbicides													
Dicamba	µg/L	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter

mV = milivolts

mg N/L = miligrams of nitrogen per liter

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

NTU = nepthelometric turbidity units

U = not detected above reporting limit

J = value estimated

H = analyzed outside of holdtime

— = well was not sampled

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E2D				E3D				E4D				N1D				N2D			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements																					
Dissolved Oxygen	mg/L	1.61	4.99	3.30	1.68	7.08	1.86	5.22	1.91	2.24	1.95	1.70	1.21	1.55	1.55	3.40	1.16	0.56	0.90	0.38	0.32
ORP	mV	181	113	136	133	118	26	115	20	-47	-102	-84	-293	-62	-63	-2	-51	-21	89	41	119
pH	SU	6.5	7.2	6.8	6.9	7.2	8.0	7.5	7.8	7.5	8.6	8.0	8.2	6.9	7.2	7.3	7.6	6.7	7.3	7.1	7.1
Specific Conductivity	µS/cm	1743	1720	1701	1671	760	775	769	744	560	559	571	576	1530	1510	1561	1512	1219	1218	1240	1228
Temperature	deg-C	12.1	12.8	13.6	13.5	9.8	11.3	14.3	11.1	9.8	10.8	13.7	11.7	11.1	12.2	14.0	13.1	12.7	12.5	13.8	12.9
Turbidity	NTU	10.85	1.56	0.56	2.26	1.58	6.51	0.93	1.20	8.60	9.99	1.68	2.35	3.04	1.85	1.49	2.71	1.10	1.64	1.28	0.53
General Chemistry																					
Alkalinity, Total	mg/L	850	850	830	830	340	330	330	330	220	220	220	220	500	500	500	500	480	490	490	470
Alkalinity, Bicarbonate	mg/L	850	850	830	830	340	330	330	330	220	220	220	220	500	500	500	500	480	490	490	470
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.51	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U
Calcium	mg/L	200	200	210	220	64	70	69	68	36	39	40	40	120	130	130	130	110	120	110	110
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	13	10 U	10 U	10 U	11	13	10 U	14	12	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	26	0.9 U	25	28	33	34	31	34	30	31	28	32	120	120	140	120	66	66	70	67
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21	0.2 U
Magnesium	mg/L	97	97	100	110	39	44	43	41	24	28	27	28	100	100	100	100	72	76	73	76
Potassium	mg/L	8.9	9.2	9.6	9.9	6.1	6.6	6.5	6.4	11	10	11	11	10	10	10	10	8.3	8.6	8.6	9.0
Sodium	mg/L	38	40	41	42	24	26	26	25	38	33	34	35	50	48	48	50	40	43	43	43
Sulfate	mg/L	67	67	67	73	14	16	14	16	11	13	11	13	120	140	170	150	66	65	67	68
Total Dissolved Solids	mg/L	990	1000	980	1000	440	430	430	440	320	330	310	340	940	880	890	920	680	720	690	710
Total Nitrate/Nitrite	mg-N/L	4.5	4	4.6	3.8	0.05	0.15 U	0.15 U	0.15 U	0.05 U	0.15 U	0.15 U	0.4 U	0.05 U	0.15 U	0.15 U	0.4 U	3	3	3.2	3.1
Total Organic Carbon	mg/L	2.0	3.3	2.9	3.2	1.2	1.8	1.5	1.5	3.4	3.9	3.4	3.5	3.6	3.9	3.9	4.1	1.8	2.5	3.1	2.3
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0039	0.0021	0.0027	0.0018	0.0067	0.0065	0.0067	0.0061	0.016	0.015	0.015	0.014	0.0059	0.0058	0.0054	0.005	0.0044	0.0032	0.0039	0.0031
Barium	mg/L	0.044	0.047	0.044	0.042	0.025	0.030	0.028	0.026	0.031	0.037	0.031	0.032	0.10	0.10	0.10	0.10	0.027	0.028	0.030	0.027
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00085	0.00064	0.00094	0.0004 U	0.00055	0.0012	0.00057	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.0025	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.35	0.3 U	0.31	0.34	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U
Manganese	mg/L	0.061	0.062	0.065	0.067	0.22	0.28	0.22	0.26	0.060	0.072	0.077	0.072	0.28	0.28	0.27	0.30	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.0069	0.0069	0.0071	0.0072	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.0100	0.0090	0.0095	0.0094	0.0043	0.0043	0.0048	0.0047
Selenium	mg/L	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.0079	0.0067	0.0062	0.0066	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0048	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter

mV = milivolts

mg N/L = miligrams of nitrogen per liter

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

NTU = nepthelometric turbidity units

U = not detected above reporting limit

— = well was not sampled

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	N3D				N5D				N5S				NE1D				S11D			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements																					
Dissolved Oxygen	mg/L	3.64	1.21	3.88	2.21	2.62	2.02	2.69	1.69	1.85	2.11	0.80	1.28	3.83	NS	4.60	4.26	1.07	0.78	1.26	4.28
ORP	mV	85	13	69	67	124	102	125	172	107	91	103	148	84	NS	102	114	-135	-137	-83	-75
pH	SU	6.7	7.2	7.2	7.5	7.0	7.6	7.3	7.4	7.0	7.7	7.3	7.5	6.9	NS	7.4	7.6	7.3	7.6	7.8	7.8
Specific Conductivity	µS/cm	653	643	660	692	1453	1454	1481	1321	759	747	771	749	681	NS	697	600	929	927	929	983
Temperature	deg-C	11.9	12.3	15.7	13.0	9.1	9.9	11.3	10.4	9.6	10.1	11.0	10.4	10.4	NS	18.1	20.0	9.8	10.2	10.9	10.6
Turbidity	NTU	1.63	2.51	1.53	2.81	2.57	1.54	0.54	1.37	1.13	1.70	0.54	1.41	2.01	NS	4.29	4.92	3.21	3.99	3.81	0.83
General Chemistry																					
Alkalinity, Total	mg/L	250	240	250	240	580	580	580	570	270	290	280	280	270	NS	250	250	340	350	350	340
Alkalinity, Bicarbonate	mg/L	250	240	250	240	580	580	580	570	270	290	280	280	270	NS	250	250	340	350	350	340
Ammonia	mg-N/L	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U	0.2 U	NS	0.2 U	0.5 U	0.2 U	0.25	0.2 U	0.5 U
Calcium	mg/L	69	74	73	78	120	130	130	130	62	67	68	67	57	NS	63	63	76	79	76	78
Chemical Oxygen Demand	mg/L	130	10 U	10 U	10 U	10 U	10 U	10 U	11	10 U	10 U	10 U	11	10 U	NS	15	10 U	55	10 U	11	10 U
Chloride	mg/L	35	37	34	38	100	100	100	110	43	45	49	46	35	NS	33	38	72	72	68	74
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.33	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	25	27	27	29	88	98	96	97	39	41	41	41	33	NS	37	38	55	55	55	54
Potassium	mg/L	6.1	6.2	6.2	6.8	9.9	11	11	11	6.5	6.6	6.8	6.8	5.7	NS	6.3	6.4	7.4	7.5	7.6	7.4
Sodium	mg/L	22	22	21	24	43	48	47	49	25	27	27	27	24	NS	27	27	37	37	35	36
Sulfate	mg/L	22	24	23	25	58	63	63	66	35	38	38	39	34	NS	34	38	28	31	29	32
Total Dissolved Solids	mg/L	390	380	400	390	800	840	830	870	410	440	420	450	390	NS	410	390	470	520	530	540
Total Nitrate/Nitrite	mg-N/L	0.052	0.15 U	0.15 U	0.4 U	0.052	0.15 U	0.15 U	0.15 U	0.057	0.15 U	0.15 U	0.15 U	0.057	NS	0.15 U	0.4 U	0.05 U	0.15 U	0.15 U	0.4 U
Total Organic Carbon	mg/L	1 U	1.2	1.5	1.1	3.1	3.0	3.1	2.8	1.7	1.5	1.8	1.5	1.0	NS	1.9	1.3	2.1	2.8	3.1	2.6
Metals																					
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0006	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.008	0.008	0.0077	0.008	0.0049	0.0035	0.004	0.0034	0.0041	0.0032	0.0036	0.0031	0.0078	NS	0.0083	0.0071	0.0086	0.0083	0.0081	0.0077
Barium	mg/L	0.026	0.026	0.027	0.027	0.079	0.080	0.088	0.083	0.025	0.026	0.028	0.026	0.017	NS	0.019	0.017	0.040	0.042	0.042	0.040
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.00043	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.00054	0.0004 U	0.00057	0.00046	0.00058	0.0004 U
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.002	0.0022	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	NS	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0072
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	NS	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0004 U	NS	0.0008 U	0.0008 U	0.0004 U	0.0008 U	0.0008 U	0.0008 U
Manganese	mg/L	0.028	0.046	0.027	0.043	0.22	0.24	0.24	0.23	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NS	0.02 U	0.02 U	0.16	0.16	0.16	0.16
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.0083	0.0082	0.0088	0.0086	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	NS	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.008 U	0.008 U	0.008 U	0.0016	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	NS	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NS	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.0057	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NS	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.01	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	NS	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter

mV = milivolts

mg N/L = miligrams of nitrogen per liter

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

NTU = nepthelometric turbidity units

U = not detected above reporting limit

— = well was not sampled

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	W1D				W2S			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements									
Dissolved Oxygen	mg/L	0.86	0.80	1.09	1.28	6.56	5.62	7.97	7.43
ORP	mV	-128	-146	-71	-178	131	95	119	130
pH	SU	7.4	7.7	7.9	7.9	6.8	7.1	7.0	7.1
Specific Conductivity	µS/cm	975	971	1001	956	939	937	977	934
Temperature	deg-C	10.2	10.5	10.9	10.8	9.3	9.9	11.0	10.4
Turbidity	NTU	1.23	1.45	0.67	1.58	2.10	1.52	0.59	1.20
General Chemistry									
Alkalinity, Total	mg/L	390	390	380	380	350	350	350	360
Alkalinity, Bicarbonate	mg/L	390	390	380	380	350	350	350	360
Ammonia	mg-N/L	0.2 U	0.29	0.2	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U
Calcium	mg/L	53	58	54	58	90	93	94	92
Chemical Oxygen Demand	mg/L	10 U	10 U	11	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	65	67	61	67	45	47	44	48
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	67	71	67	72	46	50	52	50
Potassium	mg/L	10	10	9.7	10	4.3	4.3	4.4	4.6
Sodium	mg/L	44	45	43	45	38	36	37	33
Sulfate	mg/L	31	35	33	36	54	56	53	57
Total Dissolved Solids	mg/L	540	530	530	580	530	560	530	610
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.15 U	0.15 U	0.15 U	3.8	3.5	3.5	3.7
Total Organic Carbon	mg/L	2.0	2.8	2.4	2.5	2.0	2.4	2.3	2.2
Metals									
Antimony	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0091	0.008	0.0079	0.0075	0.005 U	0.002	0.0023	0.0017
Barium	mg/L	0.060	0.061	0.055	0.056	0.027	0.026	0.025	0.024
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0025	0.0019	0.0019	0.0018
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.01 U	0.002 U	0.002 U	0.002 U
Iron	mg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.0008 U	0.0008 U
Manganese	mg/L	0.14	0.16	0.15	0.16	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.003 U	0.003 U	0.003 U	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.008 U	0.008 U	0.008 U	0.005 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.02 U	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.007 U	0.007 U	0.007 U	0.007 U	0.035 U	0.007 U	0.007 U	0.007 U

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
— = well was not sampled

Table 2C. Field Parameter, General Chemistry, and Inorganic Results - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	DNR				DOT				S7				STP				WR1			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements																					
Dissolved Oxygen	mg/L	2.12	3.00	0.89	NS	1.63	2.82	1.07	1.99	7.51	6.52	1.86	2.26	2.67	5.70	NS	0.86	6.16	4.28	2.86	2.44
ORP	mV	-79	-104	-61	NS	-142	-100	-113	-135	167	181	84	-41	-194	-34	NS	-124	119	82	119	165
pH	SU	7.1	7.5	7.6	NS	7.4	8.7	8.0	8.0	7.7	7.6	8.1	8.3	7.8	8.7	NS	8.5	7.4	7.2	7.1	7.3
Specific Conductivity	µS/cm	860	843	881	NS	685	704	706	678	797	781	793	755	564	615	NS	604	880	839	894	860
Temperature	deg-C	8.8	13.4	13.0	NS	9.6	11.5	14.4	12.9	5.8	7.0	23.2	11.5	11.0	11.9	NS	11.5	9.4	10.2	15.6	11.1
Turbidity	NTU	2.33	1.51	1.56	NS	3.28	4.56	3.64	2.19	5.93	2.26	1.14	1.30	17.80	27.10	NS	16.20	3.54	1.72	0.93	1.94
General Chemistry																					
Alkalinity, Total	mg/L	330	300	310	NS	280	290	310	310	300	310	320	300	210	230	NS	230	320	310	330	320
Alkalinity, Bicarbonate	mg/L	330	300	310	NS	280	290	310	310	300	310	320	300	210	230	NS	230	320	310	330	320
Ammonia	mg-N/L	0.2 U	0.2 U	0.22	NS	0.2 U	0.2 U	0.2 U	0.5 U	0.28	0.2 U	0.2 U	0.5 U	0.2 U	0.2 U	NS	0.5 U	0.2 U	0.2 U	0.2 U	0.5 U
Calcium	mg/L	64	78	75	NS	60	60	66	63	37	39	38	38	42	43	NS	46	75	84	83	81
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	11	10 U	10 U
Chloride	mg/L	55	57	59	NS	21	23	20	22	43	43	40	44	34	34	NS	33	55	56	51	56
Fluoride	mg/L	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Magnesium	mg/L	40	48	45	NS	42	40	45	43	52	56	57	58	32	31	NS	35	43	47	48	46
Potassium	mg/L	5.1	6.1	6.0	NS	6.3	6.3	6.9	7.0	9.8	11	11	11	11	9.4	NS	11	5.2	5.6	5.8	5.7
Sodium	mg/L	27	31	32	NS	26	24	27	26	27	32	28	31	21	20	NS	24	30	33	34	32
Sulfate	mg/L	42	44	43	NS	20	21	19	21	13	17	17	17	7.1	14	NS	14	40	43	40	44
Total Dissolved Solids	mg/L	480	490	470	NS	380	410	390	430	390	400	420	440	280	350	NS	320	480	520	500	540
Total Nitrate/Nitrite	mg-N/L	0.05 U	0.15 U	0.15 U	NS	0.05 U	0.15 U	0.15 U	0.15 U	0.22	0.37	0.38	0.33	0.05 U	0.15 U	NS	0.15 U	1.5	1.4	1.4	1.4
Total Organic Carbon	mg/L	1.7	2.4	2.6	NS	1 U	1.6	1.4	1.4	1.5	2.2	2.6	2.1	1 U	1.4	NS	1.1	1.8	2.3	2.0	2.0
Metals																					
Antimony	mg/L	0.0004 U	0.00045	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Arsenic	mg/L	0.0056	0.0061	0.0072	NS	0.0067	0.0061	0.0068	0.0056	0.0053	0.0070	0.0060	0.0054	0.017	0.037	NS	0.025	0.005 U	0.0033	0.0037	0.0030
Barium	mg/L	0.029	0.033	0.033	NS	0.022	0.025	0.025	0.022	0.034	0.033	0.032	0.031	0.041	0.040	NS	0.025	0.023	0.022	0.022	0.021
Beryllium	mg/L	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Cadmium	mg/L	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Chromium	mg/L	0.0004 U	0.0004 U	0.0004 U	NS	0.00044	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0014	0.0023	NS	0.00049	0.002 U	0.0012	0.0012	0.0011
Cobalt	mg/L	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Copper	mg/L	0.0021	0.002 U	0.002 U	NS	0.002 U	0.002 U	0.002 U	0.002 U	0.0034	0.0021	0.0031	0.0024	0.014	0.020	NS	0.002 U	0.057	0.046	0.054	0.062
Iron	mg/L	0.41	0.36	0.36	NS	0.3 U	0.32	0.57	0.46	0.3 U	0.37	0.3 U	0.76	0.3 U	0.40	NS	0.34	0.3 U	0.3 U	0.3 U	0.3 U
Lead	mg/L	0.0004 U	0.0008 U	0.0008 U	NS	0.0004 U	0.0008 U	0.0008 U	0.0008 U	0.0027	0.0023	0.0021	0.0016	0.0023	0.0030	NS	0.00093	0.002 U	0.0008 U	0.00084	0.0009
Manganese	mg/L	0.10	0.11	0.11	NS	0.14	0.15	0.17	0.15	0.022	0.050	0.02 U	0.092	0.097	0.099	NS	0.087	0.02 U	0.02 U	0.02 U	0.02 U
Nickel	mg/L	0.003 U	0.003 U	0.003 U	NS	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	NS	0.003 U	0.015 U	0.003 U	0.003 U	0.003 U
Selenium	mg/L	0.001 U	0.008 U	0.008 U	NS	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	0.008 U	0.008 U	0.001 U	0.008 U	NS	0.008 U	0.005 U	0.008 U	0.008 U	0.008 U
Silver	mg/L	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NS	0.0004 U	0.002 U	0.0004 U	0.0004 U	0.0004 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	NS	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NS	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Vanadium	mg/L	0.004 U	0.004 U	0.004 U	NS	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	NS	0.004 U	0.02 U	0.004 U	0.004 U	0.004 U
Zinc	mg/L	0.160	0.052	0.088	NS	0.110	0.061	0.065	0.140	0.29	0.23	0.16	0.20	0.59	1.70	NS	0.92	0.080	0.079	0.11	0.12

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit

Table 3A. Volatile Organic Compound Results - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	C1S				E1D				E1S				E2S				E4S				N1SR			
	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.15	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,1 - Trichloroethane	0.54	0.52	0.57	0.48	0.2 U	0.2 U	0.2 U	0.2 U	0.26	0.29	0.33	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
2-Butanone (MEK)	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U
Acetone	2 U	2.4	5 U	2 U	2 U	2 U	5 U	2 U	2 U	3.2	5 U	2 U	2 U	3.9	5 U	2	2 U	3.8	5 U	2 U	2 U	7.6	5 U	2 U
Acrylonitrile	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Bromomethane	1 U	1 U	0.66 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.53 U	1 U	1 U	1 U	0.66 U	1 U	1 U	1 U	0.66 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	1.4 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U
cis - 1,2 - Dichloroethylene	0.34	0.35	0.30	0.28	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	4.9 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	4.1 U	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Styrene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U
m, p-Xylene	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U
Trichloroethylene	0.21	0.25	0.22	0.23	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	4.9	3.8	4.9	5.0	0.5 U	0.5 U	0.2 U	0.5 U	1.8	1.5	1.9	0.5 U	1.6	0.5 U	1.8	1.9	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Vinyl acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.02 U	0.02 U	0.02 U	0.02 U	0.19	0.16	0.2	0.26	0.02 U	0.02 U	0.02 U	0.02 U	0.13	0.14	0.13	0.02 U	0.02 U	0.026	0.031	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

All concentrations presented in micrograms per liter (µg/L)

NA = Not analyzed

NS = Not sampled

U = not detected above reporting limit

J = value estimated

Table 3A. Volatile Organic Compound Results - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	N2S				N3S				NE1S				S10S				S11S				SE1D				SE1S			
	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
1,1 - Dichloroethane	0.68	0.68	0.63	0.58	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	NS	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,1 - Trichloroethane	0.62	0.67	0.68	0.59	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.52	0.49	0.49	0.45	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	NS	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	NS	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	NS	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	NS	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
2-Butanone (MEK)	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	NS	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	NS	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U
Acetone	2 U	2.2	5 U	2 U	2 U	2.5	5 U	2 U	2 U	NS	5 U	2 U	2 U	2.2	5 U	2 U	2 U	2.3	5 U	2 U	2 U	2.9	5 U	2 U	2 U	2	5 U	2 U
Acrylonitrile	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	NS	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Bromomethane	1 U	1 U	0.62 U	1 U	1 U	1 U	0.2 U	1 U	1 U	NS	0.2 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	0.53 U	1 U	1 U	1 U	0.53 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	NS	1.3 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	4.1 U	0.5 U	0.5 U	0.5 U	4.1 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Styrene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	NS	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U
m, p-Xylene	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	NS	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	NS	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	2.0	2.4	3.3	3.5	1.2	0.88	0.81	0.97	0.5 U	NS	0.2 U	0.5 U	5.3	4.5	4.6	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Vinyl acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.02 U	0.068	0.026	0.21	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

All concentrations presented in micrograms per liter (µg/L)

NA = Not analyzed

NS = Not sampled

U = not detected above reporting l

J = value estimated

Table 3B. Volatile Organic Compound Results - Aquifer 2
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Coupeville Solid Waste Facility, Island County, Washington

Parameter	E2D				E3D				E4D				N1D				N2D				N3D				N5D			
	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,1 - Trichloroethane	0.33	0.38	0.37	0.31	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
2-Butanone (MEK)	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U
Acetone	2 U	2 U	5 U	2 U	2 U	2.8	5 U	2 U	2 U	2.2	5 U	2 U	2 U	4.4	5 U	2 U	2 U	3.2	5 U	2 U	2 U	2.9	5 U	2 U	2 U	2 U	5 U	2 U
Acrylonitrile	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Bromomethane	1 U	1 U	0.53 U	1 U	1 U	1 U	0.53 U	1 U	1 U	1 U	0.66 U	1 U	1 U	1 U	0.66 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	0.62 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	4.1 U	0.5 U	0.5 U	0.5 U	4.1 U	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U
Methylene Chloride	0.5 U	0.79	1 U	0.59	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Styrene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U
m, p-Xylene	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	1.8	1.8	2.1	1.8	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.48	0.52	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Vinyl acetate	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	19	23	18	18	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.044	0.038	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
All concentrations presented in micrograms per liter (µg/L)
NA = Not analyzed
NS = Not sampled

U = not detected above reporting limit
J = value estimated

Table 3B. Volatile Organic Compound Results - Aquifer 2
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Coupeville Solid Waste Facility, Island County, Washington

Parameter	N5S				NE1D				S11D				W1D				W2S			
	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	NS	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,1 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	NS	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	NS	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	2 U	2 U	1 U	2 U	2 U	NS	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	NS	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
2-Butanone (MEK)	15 U	15 U	5 U	15 U	15 U	NS	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	2 U	5 U	5 U	NS	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U
Acetone	2 U	2.4	5 U	2 U	2 U	NS	5 U	2 U	2 U	3.1	5 U	2 U	2 U	2.4	5 U	2 U	2 U	2.9	13	3.4
Acrylonitrile	5 U	5 U	NA	5 U	5 U	NS	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U
Benzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Bromomethane	1 U	1 U	0.62 U	1 U	1 U	NS	0.2 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	0.66 U	1 U	1 U	1 U	0.66 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	1 U	0.3 U	0.3 U	NS	1.3 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	1 U	0.5 U	0.5 U	NS	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Styrene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	0.2 U	0.2 U	1 U	0.2 U	0.2 U	NS	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U
m, p-Xylene	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	NS	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	NA	2 U	2 U	NS	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	NS	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Vinyl acetate	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
All concentrations presented in micrograms per liter (µg/L)
NA = Not analyzed
NS = Not sampled

U = not detected above reporting limit
J = value estimated

Table 3C. Volatile Organic Compound Results - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	DNR				DOT				S7				STP				WR1			
	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
1,1 - Dichloroethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	0.1 U	0.1 U	0.2 U	NS	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,1 - Trichloroethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.25	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	0.1 U	0.1 U	0.2 U	NS	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,2 - Dichlorobenzene (ortho)	0.3 U	0.3 U	0.2 U	NS	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	NS	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
1,2 - Dichloroethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	2 U	2 U	1 U	NS	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	1 U	2 U
1,4 - Dichlorobenzene (para)	0.3 U	0.3 U	0.2 U	NS	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	NS	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
2-Butanone (MEK)	15 U	15 U	5 U	NS	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	NS	15 U	15 U	15 U	5 U	15 U
2-Hexanone	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	5 U	5 U	2 U	NS	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	2 U	5 U
Acetone	2 U	11	5 U	NS	2 U	2.2	5 U	2 U	2 U	2 U	5 U	2 U	2 U	7.2	NS	2 U	2 U	2.9	5 U	2 U
Acrylonitrile	5 U	5 U	NA	NS	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NS	5 U	5 U	5 U	NA	5 U
Benzene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	1 U	NS	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Bromomethane	1 U	1 U	0.62 U	NS	1 U	1 U	0.53 U	1 U	1 U	1 U	0.2 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	0.66 U	1 U
Carbon Disulfide	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.34	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Carbon Tetrachloride	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	1 U	NS	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Chloroform	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.3 U	0.3 U	1 U	NS	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	NS	0.3 U	0.3 U	0.3 U	1.4 U	0.3 U
cis - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	0.5 U	0.5 U	0.2 U	NS	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Dibromomethane	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	0.5 U	0.5 U	5.2 U	NS	0.5 U	0.5 U	4.1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	4.9 U	0.5 U
Methylene Chloride	0.5 U	0.5 U	1 U	NS	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Styrene	0.5 U	0.5 U	0.2 U	NS	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Tetrachloroethylene	0.5 U	0.5 U	0.2 U	NS	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	0.2 U	0.2 U	1 U	NS	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	1 U	0.2 U
m, p-Xylene	0.5 U	0.5 U	0.4 U	NS	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.2 U	NS	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
trans - 1,2 - Dichloroethylene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	2 U	2 U	NA	NS	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NS	2 U	2 U	2 U	NA	2 U
Trichloroethylene	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	0.5 U	0.5 U	0.2 U	NS	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Vinyl acetate	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	0.02 U	0.02 U	0.02 U	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

All concentrations presented in micrograms per liter (µg/L)

J = value estimated

NA = Not analyzed

NS= Not sampled

U = not detected above reporting limit

Table 4. Additional VOC Well Results
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E5D				E6D				E7D				E8D				E9D				E10D			
	Units	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4	17Q1	17Q2	17Q3	17Q4
Field Measurements																									
Dissolved Oxygen	mg/L	1.54	1.52	0.90	0.61	0.82	1.68	0.85	0.58	0.74	0.80	1.00	0.87	1.23	1.38	1.31	1.15	1.00	2.54	1.11	1.19	2.26	6.15	3.41	3.01
ORP	mV	-133	-96.1	-108	-116.6	-176	-96.2	-138.5	-137	-73.0	17.5	12.4	-185	-83.0	-22.2	-26.6	46.0	-251	-91	-109.5	-277	-150	-70.5	-98.1	-96.3
pH	SU	7.00	8.14	7.55	7.82	7.30	7.95	7.90	8.07	6.35	7.13	6.75	6.58	7.00	7.82	7.35	7.56	7.67	8.27	8.17	8.34	7.33	8.19	7.77	7.99
Specific Conductivity	µS/cm	1078	1139	1186	1205	677	663	696	676	1690	1742	1742	1710	571	568	587	573	561	568	554	535	978	956	919	939
Temperature	deg-C	10.61	11.48	12.86	11.90	13.44	15.24	16.99	14.66	13.31	14.21	17.59	14.55	9.51	10.36	11.77	10.71	9.43	10.20	11.17	11.06	8.77	9.66	12.21	10.00
Turbidity	NTU	2.69	2.49	1.87	1.60	1.35	1.88	0.69	1.32	1.36	1.70	1.46	1.12	2.91	4.19	1.83	2.21	13.60	24.03	6.18	4.93	7.74	7.86	4.99	7.98
Volitile Organic Compounds																									
1,1 - Dichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.7	2.6	2.8	2.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1 - Dichloroethylene	µg/L	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.22	2.9	0.2 U	2.5	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,1,1 - Trichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.83	0.89	0.94	0.82	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2 - Trichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2 - Tetrachloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dibromoethane	µg/L	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
1,2 - Dichlorobenzene (ortho)	µg/L	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
1,2 - Dichloroethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2 - Dichloropropane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3 - Trichloropropane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	µg/L	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U
1,4 - Dichlorobenzene (para)	µg/L	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U	0.3 U	0.3 U	0.2 U	0.3 U
2-Butanone (MEK)	µg/L	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U	15 U	15 U	5 U	15 U
2-Hexanone	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-Pentanone	µg/L	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U	5 U	5 U	2 U	5 U
Acetone	µg/L	2 U	3.2	5 U	2 U	2 U	3.1	5 U	2 U	2 U	2 U	5 U	2 U	2 U	2.6	5 U	2 U	2 U	5.9	5 U	2 U	2 U	8	5 U	2.6
Acrylonitrile	µg/L	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U	5 U	5 U	NA	5 U
Benzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromochloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	µg/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Bromomethane	µg/L	1 U	1 U	0.62 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.53 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.62 U	1 U	1 U	1 U	0.53 U	1 U
Carbon Disulfide	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.89	0.2 U	0.2 U	0.2 U	0.42	0.2 U	0.2 U
Carbon Tetrachloride	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	µg/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Chloroform	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	µg/L	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1 U	0.3 U	0.3 U	0.3 U	1.3 U	0.3 U
cis - 1,2 - Dichloroethylene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis - 1,3 - Dichloropropene	µg/L	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Dibromomethane	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methyl Iodide	µg/L	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	4.1 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	5.2 U	0.5 U	0.5 U	0.5 U	4.1 U	0.5 U
Methylene Chloride	µg/L	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	1	1 U	0.71	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
Styrene	µg/L	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Tetrachloroethylene	µg/L	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Toluene	µg/L	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U
m, p-Xylene	µg/L	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.4 U	0.5 U
o-Xylene	µg/L	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
trans - 1,2 - Dichloroethylene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,3 - Dichloropropene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans - 1,4 - Dichloro-2-Butene	µg/L	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	2 U
Trichloroethylene	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	µg/L	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	68	55	67	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U
Vinyl acetate	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	µg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.053	0.057	0.058	0.02 U	4.4	6.4	4.0	5.0	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:

All concentrations presented in micrograms per liter (µg/L)

NA = Not analyzed

U = not detected above reporting limit

J = value estimated

Table 5. Volatile Organic Compound Detections
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
1,1,1-Trichloroethane	C1S	1	1/24/2017	0.54	*
			4/25/2017	0.52	*
			7/25/2017	0.57	*
			10/26/2017	0.48	*
	E1S	1	1/23/2017	0.26	*
			4/24/2017	0.29	*
			7/28/2017	0.33	*
	N2S	1	3/2/2017	0.62	*
			4/26/2017	0.67	*
			7/28/2017	0.68	*
			10/26/2017	0.59	*
	S10S	1	1/25/2017	0.52	*
			4/26/2017	0.49	*
			7/27/2017	0.49	*
			10/25/2017	0.45	*
	DOT	WSW	10/24/2017	0.25	*
	E2D	2	1/25/2017	0.33	*
			4/25/2017	0.38	*
			7/26/2017	0.37	*
			10/23/2017	0.31	*
	E7D	2	1/25/2017	0.83	*
			4/25/2017	0.89	*
			7/26/2017	0.94	*
			10/24/2017	0.82	*
1,1-Dichloroethane	N2S	1	3/2/2017	0.68	*
			4/26/2017	0.68	*
			7/28/2017	0.63	*
			10/26/2017	0.58	*
	E7D	2	1/25/2017	2.7	*
			4/25/2017	2.6	*
			7/26/2017	2.8	*
			10/24/2017	2.7	*
1,1-Dichloroethylene	C1S	1	4/25/2017	0.15	*
	N2S	1	4/26/2017	0.10	*
	E7D	2	1/25/2017	0.22	*
			4/25/2017	2.9	*
			10/24/2017	2.5	*

Table 5. Volatile Organic Compound Detections
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
Acetone	C1S	1	4/25/2017	2.4	*
	E1S	1	4/24/2017	3.2	*
	E2S	1	4/25/2017	3.9	*
			10/23/2017	2.0	*
	E4S	1	4/24/2017	3.8	*
	N1SR	1	4/24/2017	7.6	*
	N2S	1	4/26/2017	2.2	*
	N3S	1	4/24/2017	2.5	*
	S10S	1	4/26/2017	2.2	*
	S11S	1	4/24/2017	2.3	*
	SE1D	1	4/25/2017	2.9	*
	SE1S	1	4/25/2017	2.0	*
	DNR	WSW	4/24/2017	11	*
	DOT	WSW	4/24/2017	2.2	*
	E10D	2	1/27/2017	7.8	*
			4/24/2017	8.0	*
			10/24/2017	2.6	*
	E3D	2	4/24/2017	2.8	*
	E4D	2	4/24/2017	2.2	*
	E5D	2	4/26/2017	3.2	*
	E6D	2	4/26/2017	3.1	*
	E8D	2	4/26/2017	2.6	*
	E9D	2	1/27/2017	4.2	*
			4/24/2017	5.9	*
	N1D	2	4/24/2017	4.4	*
	N2D	2	4/26/2017	3.2	*
	N3D	2	4/24/2017	2.9	*
	N5S	2	4/27/2017	2.4	*
	S11D	2	4/24/2017	3.1	*
	STP	WSW	4/27/2017	7.2	*
	W1D	2	4/24/2017	2.4	*
	W2S	2	4/26/2017	2.9	*
			7/25/2017	13	*
			10/24/2017	3.4	*
	WR1	WSW	4/26/2017	2.9	*
Carbon Disulfide	DOT	WSW	4/24/2017	0.34	*
	E10D	2	4/24/2017	0.42	*
	E4D	2	4/24/2017	1.2	*
	E6D	2	7/27/2017	0.21	*
	E7D	2	4/25/2017	0.20	*
	E9D	2	4/24/2017	0.89	*

Table 5. Volatile Organic Compound Detections
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
Chloroform	E7D	2	4/25/2017	0.26	*
cis-1,2-Dichloroethylene	C1S	1	1/24/2017	0.34	*
			4/25/2017	0.35	*
			7/25/2017	0.30	*
			10/26/2017	0.28	*
Methylene Chloride	E2D	2	4/25/2017	0.79	*
			10/23/2017	0.59	*
	E7D	2	4/25/2017	1.00	*
			10/24/2017	0.71	*
Trichloroethylene	C1S	1	1/24/2017	0.21	*
			4/25/2017	0.25	*
			7/25/2017	0.22	*
			10/26/2017	0.23	*
Trichlorofluoromethane	C1S	1	1/24/2017	4.9	*
			4/25/2017	3.8	*
			7/25/2017	4.9	*
			10/26/2017	5.0	*
	E1S	1	1/23/2017	1.8	*
			4/24/2017	1.5	*
			7/28/2017	1.9	*
	E2S	1	1/25/2017	1.6	*
			7/26/2017	1.8	*
			10/23/2017	1.9	*
	N2S	1	3/2/2017	2.0	*
			4/26/2017	2.4	*
			7/28/2017	3.3	*
			10/26/2017	3.5	*
	N3S	1	1/23/2017	1.2	*
			4/24/2017	0.88	*
			7/24/2017	0.81	*
			10/23/2017	0.97	*
	S10S	1	1/25/2017	5.3	*
			4/26/2017	4.5	*
			7/27/2017	4.6	*
	E2D	2	1/25/2017	1.8	*
			4/25/2017	1.8	*
			7/26/2017	2.1	*
			10/23/2017	1.8	*
	E7D	2	1/25/2017	68	*
			4/25/2017	55	*
			7/26/2017	67	*
	N2D	2	7/28/2017	0.48	*
			10/26/2017	0.52	*

Table 5. Volatile Organic Compound Detections
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result	
				Test America	Edge Analytical
Vinyl chloride	E1D	1	1/25/2017	0.19	0.436
			4/27/2017	0.16	0.413
			7/27/2017	0.20	—
			10/26/2017	0.26	0.397
	E2S	1	1/25/2017	0.13	*
			4/25/2017	0.14	*
			7/26/2017	0.13	*
	E4S	1	4/24/2017	0.026	*
			7/25/2017	0.031	*
	N2S	1	1/26/2017	—	0.056
			4/26/2017	0.068	0.136
			7/28/2017	0.026	—
			10/26/2017	0.210	0.288
	E2D	2	1/25/2017	19	*
			4/25/2017	23	*
			7/26/2017	18	*
			10/23/2017	18	*
	E5D	2	10/25/2017	—	0.011
	E6D	2	1/25/2017	0.053	0.116
			4/26/2017	0.057	0.115
			7/27/2017	0.058	—
			10/25/2017	—	0.111
	E7D	2	1/25/2017	4.4	*
			4/25/2017	6.4	*
			7/26/2017	4.0	*
			10/24/2017	5.0	*
	N2D	2	1/26/2017	0.044	0.087
			4/26/2017	0.038	0.077
			7/28/2017	0.040	—
			10/26/2017	—	0.073
	N5D	2	1/26/2017	—	0.029
			4/27/2017	—	0.024
			10/25/2017	—	0.022

Notes:
All units measured in µg/L
* = not analyzed
— = not detected above reporting limit
WSW = Water Supply Well
Wells E5D, E6D, E7D & E8D represent additional VOC wells

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Field Measurements							
pH (SU)	<6.5 or > 8.5	-	<6.5 or > 8.5	C1S	1	1/24/2017	6.30
				N1SR	1	1/23/2017	6.07
						4/24/2017	6.28
						7/25/2017	6.44
				E2D	2	1/25/2017	6.48
				E4D	2	4/24/2017	8.63
				DOT	WSW	4/24/2017	8.69
				STP	WSW	4/27/2017	8.65
						10/26/2017	8.54
Specific Conductivity (µS/cm)	-	-	700[a]	C1S	1	1/24/2017	1234
						4/25/2017	1143
						7/25/2017	1064
						10/26/2017	990
				E1D	1	1/25/2017	1754
						4/27/2017	1718
						7/27/2017	1797
						10/26/2017	1765
				E1S	1	1/23/2017	1141
						4/24/2017	1172
						7/28/2017	1150
						10/24/2017	1104
				E2S	1	1/25/2017	1359
						4/25/2017	1369
						7/26/2017	1343
						10/23/2017	1404
				E4S	1	1/25/2017	1129
						4/24/2017	1206
						7/25/2017	1226
						10/23/2017	1184
				N2S	1	1/26/2017	1580
						4/26/2017	1538
						7/28/2017	1550
						10/26/2017	1526
				N3S	1	1/23/2017	1064
						4/24/2017	1037
						7/24/2017	1084
						10/23/2017	1072
				NE1S	1	1/24/2017	846
						7/24/2017	863
						10/23/2017	892
				S10S	1	1/25/2017	1435
						4/26/2017	1384
						7/27/2017	1423
						10/25/2017	1390
				S11S	1	1/25/2017	906
						4/24/2017	896
						7/24/2017	912
						10/23/2017	902
				SE1D	1	1/27/2017	936
						4/25/2017	963
						7/26/2017	955
						10/25/2017	956
				SE1S	1	1/27/2017	853
						4/25/2017	871
						7/26/2017	864
						10/25/2017	867
				E2D	2	1/25/2017	1743
						4/25/2017	1720
						7/26/2017	1701
						10/23/2017	1671

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Specific Conductivity (µS/cm) (cont.)	-	-	700[a]	E3D	2	1/24/2017	760
						4/24/2017	775
						7/26/2017	769
						10/24/2017	744
				N1D	2	1/23/2017	1530
						4/24/2017	1510
						7/25/2017	1561
						10/23/2017	1512
				N2D	2	1/26/2017	1219
						4/26/2017	1218
						7/28/2017	1240
						10/26/2017	1228
				N5D	2	1/26/2017	1453
						4/27/2017	1454
						7/27/2017	1481
						10/25/2017	1321
				N5S	2	1/26/2017	759
						4/27/2017	747
						7/27/2017	771
						10/25/2017	749
				S11D	2	1/25/2017	929
						4/24/2017	927
						7/24/2017	929
						10/23/2017	983
				W1D	2	1/24/2017	975
						4/24/2017	971
						7/25/2017	1001
						10/24/2017	956
				W2S	2	1/26/2017	939
						4/26/2017	937
						7/25/2017	977
						10/24/2017	934
				DNR	3	1/24/2017	860
						4/24/2017	843
						7/27/2017	881
				DOT	3	4/24/2017	704
						7/26/2017	706
				S7	3	1/25/2017	797
						4/25/2017	781
						7/24/2017	793
						10/24/2017	755
				WR1	3	1/26/2017	880
						4/26/2017	839
						7/25/2017	894
						10/24/2017	860
General Chemistry							
Total Dissolved Solids (mg/L)	500	-	500	C1S	1	1/24/2017	840
						4/25/2017	760
						7/25/2017	680
						10/26/2017	620
				E1D	1	1/25/2017	980
						4/27/2017	1000
						7/27/2017	1000
						10/26/2017	990
				E1S	1	1/23/2017	660
						4/24/2017	670
						7/28/2017	640
						10/24/2017	690
				E2S	1	1/25/2017	780
						4/25/2017	800
						7/26/2017	780
						10/23/2017	810

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Total Dissolved Solids (mg/L) (cont.)	500	-	500	E4S	1	1/25/2017	650
						4/24/2017	690
						7/25/2017	680
						10/23/2017	710
				N2S	1	1/26/2017	940
						4/26/2017	960
						7/28/2017	930
						10/26/2017	910
				N3S	1	1/23/2017	630
						4/24/2017	620
						7/24/2017	650
						10/23/2017	640
				NE1S	1	1/24/2017	520
						7/24/2017	540
						10/23/2017	530
				S10S	1	1/25/2017	820
						4/26/2017	880
						7/27/2017	830
						10/25/2017	850
				S11S	1	4/24/2017	520
						7/24/2017	540
						10/23/2017	530
				SE1D	1	1/27/2017	530
						4/25/2017	530
						7/26/2017	520
						10/25/2017	530
				SE1S	1	1/27/2017	500
						4/25/2017	500
				E2D	2	1/25/2017	990
						4/25/2017	1000
						7/26/2017	980
						10/23/2017	1000
				N1D	2	1/23/2017	940
						4/24/2017	880
						7/25/2017	890
						10/23/2017	920
				N2D	2	1/26/2017	680
						4/26/2017	720
						7/28/2017	690
						10/26/2017	710
				N5D	2	1/26/2017	800
						4/27/2017	840
						7/27/2017	830
						10/25/2017	870
				S11D	2	4/24/2017	520
						7/24/2017	530
						10/23/2017	540
				W1D	2	1/24/2017	540
						4/24/2017	530
						7/25/2017	530
						10/24/2017	580
				W2S	2	1/26/2017	530
						4/26/2017	560
						7/25/2017	530
						10/24/2017	610
				WR1	WSW	4/26/2017	520
						7/25/2017	500
						10/24/2017	540

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Total Nitrate/Nitrite (mg/L)	10	10	-	E1S	1	1/23/2017	13
						4/24/2017	12
						7/28/2017	12
						10/24/2017	12
				S10S	1	1/25/2017	46
						4/26/2017	44
						7/27/2017	42
						10/25/2017	41
Metals							
Arsenic (mg/L)	0.00005	0.01	-	C1S	1	1/24/2017	0.0024
						4/25/2017	0.0015
						7/25/2017	0.0019
						10/26/2017	0.0011
				E1D	1	1/25/2017	0.0061
						4/27/2017	0.0056
						7/27/2017	0.0058
						10/26/2017	0.0045
				E1S	1	1/23/2017	0.0024
						4/24/2017	0.0018
						7/28/2017	0.0025
						10/24/2017	0.0014
				E2S	1	1/25/2017	0.0032
						4/25/2017	0.0017
						7/26/2017	0.0027
						10/23/2017	0.0011
				E4S	1	4/24/2017	0.0027
						7/25/2017	0.0032
						10/23/2017	0.0024
				N1SR	1	1/23/2017	0.0023
						4/24/2017	0.0021
						7/25/2017	0.0022
						10/23/2017	0.0018
				N2S	1	1/26/2017	0.0030
						4/26/2017	0.0014
						7/28/2017	0.0022
						10/26/2017	0.0011
				N3S	1	1/23/2017	0.0033
						4/24/2017	0.0028
						7/24/2017	0.0028
						10/23/2017	0.0024
				NE1S	1	1/24/2017	0.0033
						7/24/2017	0.0029
						10/23/2017	0.0023
				S10S	1	1/25/2017	0.0036
						4/26/2017	0.0022
						7/27/2017	0.0029
						10/25/2017	0.0020
				S11S	1	1/25/2017	0.0066
						4/24/2017	0.0057
						7/24/2017	0.0057
						10/23/2017	0.0055
				SE1D	1	1/27/2017	0.0130
						4/25/2017	0.0110
						7/26/2017	0.0110
						10/25/2017	0.0110
				SE1S	1	1/27/2017	0.0067
						4/25/2017	0.0057
						7/26/2017	0.0060
						10/25/2017	0.0053
				E2D	2	1/25/2017	0.0039
						4/25/2017	0.0021
						7/26/2017	0.0027
						10/23/2017	0.0018

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Arsenic (mg/L) (cont.)	0.00005	0.01	-	E3D	2	1/24/2017	0.0067
						4/24/2017	0.0065
						7/26/2017	0.0067
						10/24/2017	0.0061
				E4D	2	1/25/2017	0.0160
						4/24/2017	0.0150
						7/25/2017	0.0150
						10/23/2017	0.0140
				N1D	2	1/23/2017	0.0059
						4/24/2017	0.0058
						7/25/2017	0.0054
						10/23/2017	0.0050
				N2D	2	1/26/2017	0.0044
						4/26/2017	0.0032
						7/28/2017	0.0039
						10/26/2017	0.0031
				N3D	2	1/23/2017	0.0080
						4/24/2017	0.0080
						7/24/2017	0.0077
						10/23/2017	0.0080
				N5D	2	1/26/2017	0.0049
						4/27/2017	0.0035
						7/27/2017	0.0040
						10/25/2017	0.0034
				N5S	2	1/26/2017	0.0041
						4/27/2017	0.0032
						7/27/2017	0.0036
						10/25/2017	0.0031
				NE1D	2	1/24/2017	0.0078
						7/24/2017	0.0083
						10/23/2017	0.0071
				S11D	2	1/25/2017	0.0086
						4/24/2017	0.0083
						7/24/2017	0.0081
						10/23/2017	0.0077
				W1D	2	1/24/2017	0.0091
						4/24/2017	0.0080
						7/25/2017	0.0079
						10/24/2017	0.0075
				W2S	2	4/26/2017	0.0020
						7/25/2017	0.0023
						10/24/2017	0.0017
				DNR	WSW	1/24/2017	0.0056
						4/24/2017	0.0061
						7/27/2017	0.0072
				DOT	WSW	1/25/2017	0.0067
						4/24/2017	0.0061
						7/26/2017	0.0068
						10/24/2017	0.0056
				S7	WSW	1/25/2017	0.0053
						4/25/2017	0.0070
						7/24/2017	0.0060
						10/24/2017	0.0054
				STP	WSW	1/25/2017	0.0170
						4/27/2017	0.0370
						10/26/2017	0.0250
				WR1	WSW	4/26/2017	0.0033
						7/25/2017	0.0037
						10/24/2017	0.0030

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Iron (mg/L)	0.3	-	0.3	N1D	2	1/23/2017	0.35
						7/25/2017	0.31
						10/23/2017	0.34
				DNR	WSW	1/24/2017	0.41
						4/24/2017	0.36
						7/27/2017	0.36
				DOT	WSW	4/24/2017	0.32
						7/26/2017	0.57
						10/24/2017	0.46
				S7	WSW	4/25/2017	0.37
						10/24/2017	0.76
				STP	WSW	4/27/2017	0.40
						10/26/2017	0.34
Manganese (mg/L)	0.05	-	0.05	E2S	1	1/25/2017	0.36
						4/25/2017	0.39
						7/26/2017	0.46
						10/23/2017	0.47
				S11S	1	1/25/2017	0.20
						4/24/2017	0.21
						7/24/2017	0.21
						10/23/2017	0.20
				SE1D	1	1/27/2017	0.18
						4/25/2017	0.20
						7/26/2017	0.20
						10/25/2017	0.20
				E2D	2	1/25/2017	0.061
						4/25/2017	0.062
						7/26/2017	0.065
						10/23/2017	0.067
				E3D	2	1/24/2017	0.22
						4/24/2017	0.28
						7/26/2017	0.22
						10/24/2017	0.26
				E4D	2	1/25/2017	0.060
						4/24/2017	0.072
						7/25/2017	0.077
						10/23/2017	0.072
				N1D	2	1/23/2017	0.28
						4/24/2017	0.28
						7/25/2017	0.27
						10/23/2017	0.30
				N5D	2	1/26/2017	0.22
						4/27/2017	0.24
						7/27/2017	0.24
						10/25/2017	0.23
				S11D	2	1/25/2017	0.16
						4/24/2017	0.16
						7/24/2017	0.16
						10/23/2017	0.16
				W1D	2	1/24/2017	0.14
						4/24/2017	0.16
						7/25/2017	0.15
						10/24/2017	0.16
				DNR	WSW	1/24/2017	0.10
						4/24/2017	0.11
						7/27/2017	0.11
				DOT	WSW	1/25/2017	0.14
						4/24/2017	0.15
						7/26/2017	0.17
						10/24/2017	0.15

Table 6. WAC 173-200 and Federal MCL Exceedences
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Criteria			Sample Location	Aquifer	Date Sampled	Result
	WAC 173-200	Primary MCL	Secondary MCL				
Manganese (mg/L) (cont.)	0.05	-	0.05	S7	WSW	4/25/2017	0.050
						10/24/2017	0.092
				STP	WSW	1/25/2017	0.097
						4/27/2017	0.099
						10/26/2017	0.087
Volatile Organic Compounds							
Vinyl Chloride (µg/L)	0.02	2	-	E1D	1	1/25/2017	0.19
						4/27/2017	0.16
						7/27/2017	0.20
						10/26/2017	0.26
				E2S	1	1/25/2017	0.13
						4/25/2017	0.14
						7/26/2017	0.13
				E4S	1	4/24/2017	0.026
						7/25/2017	0.031
				N2S	1	4/26/2017	0.068
						7/28/2017	0.026
						10/26/2017	0.210
				E2D	2	1/25/2017	19.0
						4/25/2017	23.0
						7/26/2017	18.0
						10/23/2017	18.0
				N2D	2	3/2/2017	0.044
						4/26/2017	0.038
						7/28/2017	0.040

Notes:

° = WAC 246-290-310 standard

mg/L = miligrams per liter

µg/L = micrograms per liter

MCL = Federal Maximum Contaminant Level

WSW = Water Supply Well

Table 7. Short and Long Term Statisitics for Select Parameters
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Specific Conductivity (µS/cm)	1	C1S	8	0	990	1561	1264.5	-22	-2.598	0.47	decreasing	47	0	1.083	1826	1207.5	-27	-0.238	40.58	no trend
	1	E1D	8	0	1628	1797	1715.9	24	2.846	0.22	increasing	123	0	1.97	2490	1242.4	2439	5.33	0	increasing
	1	E1S	8	0	1104	1172	1142.6	4	0.371	35.53	no trend	123	0	1.353	2080	1190.7	1204	2.63	0.43	increasing
	1	E2S	8	0	1332	1404	1355.3	14	1.608	5.39	no trend	121	0	1.404	1630	1095.4	3646	8.166	0	increasing
	1	E4S	8	0	1129	1226	1172.5	8	0.866	19.33	no trend	38	0	1.09	1238	1001.3	191	2.389	0.85	increasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	860	1249	1141.6	N/A	N/A	N/A	N/A
	1	N1SR	8	0	405	504	442.1	5	0.495	31.04	no trend	48	0	0.442	608	475.8	-519	-4.604	0	decreasing
	1	N2S	8	0	1500	1610	1561.5	N/A	N/A	N/A	N/A	52	0	1.68	1900	1380.3	N/A	N/A	N/A	N/A
	1	N3S	8	0	1037	1084	1065	2	0.124	45.08	no trend	121	0	0.974	1365	812.8	4249	9.517	0	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	758	893	796.4	-1	0	50	no trend
	1	NE1S	7	0	783	892	826.7	20	2.886	0.19	increasing	60	0	0.73	1004	793.3	-100	-0.631	26.39	no trend
	1	S10S	8	0	1384	1440	1416	-10	-1.113	13.28	no trend	62	0	1.206	2400	1499.4	-882	-5.351	0	decreasing
	1	S11S	8	0	892	916	902.5	5	0.495	31.04	no trend	57	0	0.739	1033	852.7	134	0.916	18	no trend
	1	SE1D	8	0	925	963	942.1	17	1.995	2.3	no trend	58	0	0.925	1054	866.9	557	3.73	0.01	increasing
	1	SE1S	8	0	796	871	847.8	23	2.743	0.3	increasing	58	0	0.859	966	791.3	-178	-1.187	11.76	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	662	694	678	N/A	N/A	N/A	N/A
	2	E2D	8	0	1671	1795	1729.3	-21	-2.474	0.67	decreasing	122	0	1.64	2280	1078.6	2830	6.26	0	increasing
	2	E3D	8	0	711	775	751.6	12	1.361	8.68	no trend	67	0	0.603	846	697.2	866	4.681	0	increasing
	2	E4D	8	0	547	576	559.8	16	1.856	3.17	no trend	40	0	0.629	933	549	-165	-1.911	2.8	no trend
	2	N1D	8	0	1500	1561	1520.3	13	1.485	6.88	no trend	122	0	1.292	1850	1203	3820	8.451	0	increasing
	2	N2D	8	0	1141	1240	1215.6	10	1.113	13.28	no trend	127	0	1.205	1516	880.7	5145	10.72	0	increasing
	2	N3D	8	0	631	692	649	20	2.351	0.94	increasing	121	0	0.444	720	524.5	3674	8.229	0	increasing
	2	N5D	8	0	1321	1481	1436.9	6	0.619	26.81	no trend	61	0	1.415	1481	1298	753	4.68	0	increasing
	2	N5S	8	0	711	771	749.8	8	0.866	19.33	no trend	61	0	0.792	917	690.4	-156	-0.965	16.74	no trend
	2	NE1D	7	0	600	697	670.3	4	0.451	32.62	no trend	60	0	0.542	763	600.6	291	1.85	3.22	no trend
	2	S11D	8	0	910	983	933.3	13	1.485	6.88	no trend	59	0	0.761	1065	877.2	56	0.36	35.96	no trend
	2	W1D	8	0	956	1001	972.8	5	0.495	31.04	no trend	119	0	0.804	1159	895.8	1812	4.159	0	increasing
	2	W2S	8	0	914	977	941.4	2	0.124	45.08	no trend	60	0	0.861	1018	847.9	689	4.388	0	increasing
	WSW	DNR	7	0	824	881	853.7	7	0.901	18.38	no trend	67	0	0.703	969	778.8	717	3.875	0.01	increasing
	WSW	DOT	8	0	661	706	683.9	15	1.732	4.16	no trend	106	0	0.51	712	571.9	2841	7.753	0	increasing
	WSW	S7	8	0	702	797	756.9	10	1.113	13.28	no trend	127	0	0.55	1920	607.1	3964	8.259	0	increasing
	WSW	STP	7	0	511	615	572.9	7	0.901	18.38	no trend	85	2	0	772	547.9	-103	-0.387	34.93	no trend
	WSW	WR1	8	0	839	894	856.8	13	1.485	6.88	no trend	65	0	7.65	894	767.7	915	5.175	0	increasing

Table 7. Short and Long Term Statisitics for Select Parameters
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Nitrate (mg/L)	1	C1S	8	0	3.1	8.5	5.35	-18	-2.103	1.77	no trend	48	0	1.6	13.2	6.07	315	2.791	0.26	increasing
	1	E1D	8	6	<0.0750	0.079	0.0469	-7	-0.754	22.55	no trend	123	45	<0.000030	3.19	0.7	-2293	-5.011	0	decreasing
	1	E1S	8	0	12	13	12.25	-2	-0.126	45	no trend	123	13	<0.000030	13	3.99	2849	6.226	0	increasing
	1	E2S	8	0	7.7	8.7	8.31	-14	-1.621	5.25	no trend	120	45	<0.000030	8.7	1.445	-1483	-3.362	0.04	decreasing
	1	E4S	8	0	0.62	1.4	0.966	26	3.093	0.1	increasing	38	0	0.11	3.85	0.526	408	5.118	0	increasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	0.2	8.7	4.33	N/A	N/A	N/A	N/A
	1	N1SR	8	0	1.2	6	3.29	-10	-1.113	13.28	no trend	48	0	1.2	11.5	6.27	-584	-5.182	0	decreasing
	1	N2S	8	0	5.4	7.6	6.21	N/A	N/A	N/A	N/A	53	17	<0.000030	7.6	1.688	N/A	N/A	N/A	N/A
	1	N3S	8	0	5.5	6.1	5.9	3	0.249	40.16	no trend	121	5	<0.2	6.49	2.426	5376	12.042	0	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	<0.000030	<0.2	0.0205	0	0	50	no trend
	1	NE1S	7	0	4.7	6.5	5.51	11	1.502	6.66	no trend	60	0	0.03	8.39	5.14	1011	6.442	0	increasing
	1	S10S	8	0	41	46	43.6	-8	-0.866	19.33	no trend	62	0	0.02	86	35.1	363	2.199	1.39	no trend
	1	S11S	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	57	55	<0.00070	0.19	0.01566	N/A	N/A	N/A	N/A
	1	SE1D	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	58	51	<0.00070	0.95	0.0393	-313	-2.094	1.81	no trend
	1	SE1S	8	0	1.1	1.3	1.213	5	0.507	30.62	no trend	58	1	<0.012	1.32	0.688	1338	8.97	0	increasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	0.8	1.1	0.967	N/A	N/A	N/A	N/A
	2	E2D	8	0	3.3	4.6	3.975	14	1.608	5.39	no trend	118	14	<0.00070	4.6	0.818	360	0.835	20.19	no trend
	2	E3D	8	7	<0.0750	0.05	0.0391	N/A	N/A	N/A	N/A	67	63	<0.000030	0.18	0.0165	-945	-5.111	0	decreasing
	2	E4D	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	38	38	<0.0028	<0.10	0.01414	N/A	N/A	N/A	N/A
	2	N1D	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	123	81	<0.000030	0.6	0.1009	-4032	-8.813	0	decreasing
	2	N2D	8	0	2.3	3.2	2.86	24	2.89	0.19	increasing	128	34	<0.000030	3.2	0.677	-637	-1.31	9.51	no trend
	2	N3D	8	7	<0.0750	0.052	0.0393	N/A	N/A	N/A	N/A	120	98	<0.000030	0.7	0.0719	-3188	-7.23	0	decreasing
	2	N5D	8	7	<0.0750	0.052	0.0393	N/A	N/A	N/A	N/A	61	57	<0.00070	0.18	0.01371	N/A	N/A	N/A	N/A
	2	N5S	8	7	<0.0750	0.057	0.0399	N/A	N/A	N/A	N/A	61	42	<0.00190	0.21	0.01916	96	0.591	27.71	no trend
	2	NE1D	7	3	<0.0750	0.093	0.0566	-6	-0.76	22.38	no trend	60	29	<0.00250	3.86	0.0904	200	1.27	10.21	no trend
	2	S11D	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	58	55	<0.00070	0.16	0.0152	N/A	N/A	N/A	N/A
	2	W1D	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	119	82	<0.000030	0.4	0.0843	-3705	-8.508	0	decreasing
	2	W2S	8	0	3.3	3.9	3.61	6	0.623	26.65	no trend	60	0	0.18	4.4	3.16	879	5.6	0	increasing
	WSW	DNR	7	7	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	67	33	<0.000030	0.56	0.0564	-1025	-5.543	0	decreasing
	WSW	DOT	8	8	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	107	103	<0.000030	0.3	0.0505	-2073	-5.579	0	decreasing
	WSW	S7	8	0	0.22	0.51	0.355	-2	-0.124	45.08	no trend	128	94	<0.000030	1.76	0.1108	-3529	-7.267	0	decreasing
	WSW	STP	7	7	<0.0750	<0.0750	<0.0750	N/A	N/A	N/A	N/A	85	80	<0.000030	0.24	0.04124	-1489	-5.649	0	decreasing
	WSW	WR1	8	0	1.3	1.5	1.388	11	1.267	10.27	no trend	65	3	<0.012	1.63	0.957	1079	6.103	0	increasing

Table 7. Short and Long Term Statisitics for Select Parameters
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Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Sulfate (mg/L)	1	C1S	8	0	140	350	236.3	-21	-2.494	0.63	decreasing	48	0	32	434	231.5	157	1.387	8.28	no trend
	1	E1D	8	0	45	80	61.8	18	2.103	1.77	no trend	123	0	22	109	57.5	2232	4.877	0	increasing
	1	E1S	8	0	38	42	39.9	0	0	50	no trend	123	0	17	59	33.16	4362	9.534	0	increasing
	1	E2S	8	0	59	68	63.1	11	1.247	10.63	no trend	120	0	8	76	30	2857	6.478	0	increasing
	1	E4S	8	0	36	45	42.5	7	0.748	22.72	no trend	38	0	24	63	35.7	505	6.339	0	increasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	26	102	75.1	N/A	N/A	N/A	N/A
	1	N1SR	8	0	7.3	18	12.9	-12	-1.361	8.68	no trend	48	0	7.3	37	21.63	-785	-6.97	0	decreasing
	1	N2S	8	0	98	130	111	N/A	N/A	N/A	N/A	53	0	3	130	57.5	N/A	N/A	N/A	N/A
	1	N3S	8	0	40	45	43	1	0	50	no trend	121	0	15	56	41.2	1837	4.113	0	increasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	70	91	80.3	-22	-1.878	3.02	no trend
	1	NE1S	7	0	57	71	66.6	13	1.802	3.58	no trend	60	0	34	97	69.5	-164	-1.04	14.93	no trend
	1	S10S	8	0	89	120	100.5	-1	0	50	no trend	62	0	33	131	97.6	-317	-1.92	2.75	no trend
	1	S11S	8	0	27	31	29.1	5	0.495	31.04	no trend	57	0	25	32	28.2	799	5.495	0	increasing
	1	SE1D	8	0	25	28	26	1	0	50	no trend	58	0	21	37	25.25	854	5.723	0	increasing
	1	SE1S	8	0	37	41	38.6	12	1.371	8.51	no trend	58	0	26	61	38.4	-31	-0.201	42.03	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	43	49	45.7	N/A	N/A	N/A	N/A
	2	E2D	8	0	55	73	64.4	24	2.89	0.19	increasing	118	0	0.8	73	27.75	1547	3.596	0.02	increasing
	2	E3D	8	0	14	16	15.38	-7	-0.748	22.72	no trend	67	0	13	28	15.54	671	3.627	0.01	increasing
	2	E4D	8	0	11	13	12.25	-5	-0.503	30.76	no trend	38	0	10	161	22.9	-469	-5.886	0	decreasing
	2	N1D	8	0	120	190	147.5	4	0.371	35.53	no trend	123	1	<0.04	190	81.2	6285	13.737	0	increasing
	2	N2D	8	0	61	72	66.3	14	1.608	5.39	no trend	128	0	2	72	34.4	5745	11.831	0	increasing
	2	N3D	8	0	22	25	23.5	6	0.619	26.81	no trend	120	0	0.6	51	19.36	4242	9.62	0	increasing
	2	N5D	8	0	54	66	60.3	20	2.369	0.89	increasing	61	0	30	66	43.5	1625	10.107	0	increasing
	2	N5S	8	0	33	39	35.75	21	2.513	0.6	increasing	61	0	31	39	35.3	617	3.834	0.01	increasing
	2	NE1D	7	0	34	38	35.6	3	0.304	38.06	no trend	60	0	29	81	36.4	742	4.727	0	increasing
	2	S11D	8	0	28	32	30	5	0.499	30.9	no trend	58	0	27	33	30.1	90	0.597	27.52	no trend
	2	W1D	8	0	31	36	33.6	9	0.99	16.12	no trend	119	0	11	46	28.5	926	2.125	1.68	no trend
	2	W2S	8	0	51	58	55.3	4	0.371	35.53	no trend	60	0	32	140	58.6	-907	-5.779	0	decreasing
	WSW	DNR	7	0	39	44	41.86	11	1.519	6.44	no trend	67	0	16	44	35.3	1726	9.337	0	increasing
	WSW	DOT	8	0	19	22	20.38	-1	0	50	no trend	107	0	10.1	32	16.8	3102	8.348	0	increasing
	WSW	S7	8	0	13	25	19.13	-10	-1.122	13.09	no trend	128	2	<1.0	56	11.96	5689	11.716	0	increasing
	WSW	STP	7	0	7.1	14	10.2	3	0.304	38.06	no trend	85	0	5.8	44.7	12.15	268	1.014	15.54	no trend
	WSW	WR1	8	0	38	44	41.9	5	0.495	31.04	no trend	65	0	36	53.4	43.5	-873	-4.937	0	decreasing

Table 7. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Total Dissolved Solids (mg/L)	1	C1S	8	0	620	1100	865	-23	-2.743	0.3	decreasing	48	0	572	1201	875.6	-89	-0.782	21.71	no trend
	1	E1D	8	0	930	1000	973.8	20	2.369	0.89	increasing	61	0	930	1600	1147	-1447	-8.999	0	decreasing
	1	E1S	8	0	640	690	660	4	0.377	35.31	no trend	61	0	628	1200	815.7	-1479	-9.198	0	decreasing
	1	E2S	8	0	780	810	798.8	-3	-0.247	40.23	no trend	61	0	551	890	798.7	457	2.838	0.23	increasing
	1	E4S	8	0	650	710	681.3	8	0.866	19.33	no trend	38	0	540	711	648.3	172	2.15	1.58	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1	N1SR	8	0	240	310	273.8	-5	-0.495	31.04	no trend	48	0	240	416	323.7	-725	-6.435	0	decreasing
	1	N2S	8	0	910	970	950	N/A	N/A	N/A	N/A	31	0	910	1136	1005.5	N/A	N/A	N/A	N/A
	1	N3S	8	0	600	650	630	4	0.371	35.53	no trend	59	0	600	724	666.7	247	1.609	5.38	no trend
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	0	479	545	501.8	-2	-0.34	36.71	no trend
	1	NE1S	7	0	470	540	505.7	16	2.279	1.13	no trend	60	0	380	620	522.3	92	0.58	28.08	no trend
	1	S10S	8	0	820	880	852.5	-4	-0.371	35.53	no trend	62	0	785	1410	1000.5	-1233	-7.483	0	decreasing
	1	S11S	8	0	480	540	512.5	10	1.113	13.28	no trend	57	0	479	551	519.6	41	0.275	39.15	no trend
	1	SE1D	8	0	520	530	523.8	11	1.267	10.27	no trend	58	0	351	559	515	595	3.985	0	increasing
	1	SE1S	8	0	480	500	491.3	3	0.253	40	no trend	58	0	452	548	491.8	-61	-0.403	34.37	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2	E2D	8	0	980	1100	1008.8	-10	-1.122	13.09	no trend	61	0	452	1277	1117.1	-285	-1.767	3.86	no trend
	2	E3D	8	0	430	450	435	3	0.251	40.08	no trend	61	0	338	450	419.8	938	5.831	0	increasing
	2	E4D	8	0	310	340	326.3	-3	-0.249	40.16	no trend	38	0	310	556	353.1	-466	-5.847	0	decreasing
	2	N1D	8	0	880	940	902.5	1	0	50	no trend	60	0	860	1079	941	-232	-1.473	7.03	no trend
	2	N2D	8	0	670	720	692.5	8	0.873	19.14	no trend	61	0	403	767	685.4	800	4.972	0	increasing
	2	N3D	8	0	370	400	382.5	15	1.745	4.05	no trend	60	0	298	400	363.4	922	5.874	0	increasing
	2	N5D	8	0	800	870	830	10	1.113	13.28	no trend	61	0	657	891	805.4	1034	6.428	0	increasing
	2	N5S	8	0	410	450	426.3	11	1.247	10.63	no trend	61	0	265	461	429.2	-71	-0.436	33.16	no trend
	2	NE1D	7	0	390	410	392.9	4	0.461	32.24	no trend	60	0	258	549	382	793	5.052	0	increasing
	2	S11D	8	0	470	540	518.8	4	0.371	35.53	no trend	58	0	470	571	533.5	-95	-0.631	26.42	no trend
	2	W1D	8	0	530	580	542.5	0	0	50	no trend	61	0	336	839	555.3	93	0.573	28.35	no trend
	2	W2S	8	0	520	610	551.3	6	0.623	26.65	no trend	60	0	327	721	521.1	869	5.536	0	increasing
	WSW	DNR	7	0	470	490	482.9	-8	-1.063	14.38	no trend	60	0	430	526	482.6	636	4.05	0	increasing
	WSW	DOT	8	0	380	430	396.3	9	0.997	15.93	no trend	61	0	305	430	373.4	920	5.719	0	increasing
	WSW	S7	8	0	390	440	410	4	0.374	35.42	no trend	61	0	361	717	404.2	677	4.207	0	increasing
	WSW	STP	7	0	280	350	310	4	0.451	32.62	no trend	59	0	280	381	344.9	-360	-2.348	0.94	decreasing
	WSW	WR1	8	0	480	540	501.3	10	1.122	13.09	no trend	50	0	378	633	479.1	427	3.564	0.02	increasing

Table 7. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Arsenic, Total (µg/L)	1	C1S	8	0	1.1	3.5	1.988	-6	-0.619	26.81	no trend	48	7	<0.024	3.5	1.047	304	2.695	0.35	increasing
	1	E1D	8	0	4.5	6.1	5.46	1	0	50	no trend	108	33	<0.110	<200	10.06	-2318	-6.152	0	decreasing
	1	E1S	8	0	1.4	3	2.138	-3	-0.249	40.16	no trend	108	51	<0.024	<200	7.75	-1447	-3.839	0.01	decreasing
	1	E2S	8	0	1.1	3.2	2.238	-4	-0.371	35.53	no trend	109	37	<0.024	<200	11.1	-3779	-9.894	0	decreasing
	1	E4S	8	1	<0.50	4	2.82	-8	-0.873	19.14	no trend	38	1	<0.50	4	2.56	19	0.226	41.04	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	5	<0.110	144	25.37	N/A	N/A	N/A	N/A
	1	N1SR	8	0	1.8	3.6	2.35	-9	-0.99	16.12	no trend	48	0	1.5	3.6	2.056	36	0.311	37.78	no trend
	1	N2S	8	0	1.1	3	2.113	N/A	N/A	N/A	N/A	46	27	<0.030	<20	1.128	N/A	N/A	N/A	N/A
	1	N3S	8	0	2.4	4.2	3.025	-7	-0.748	22.72	no trend	106	43	<0.030	<200	9.26	-2015	-5.499	0	decreasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	6	<0.10	4	1.53	14	1.177	11.96	no trend
	1	NE1S	7	0	2.3	4.1	3.186	-8	-1.051	14.66	no trend	60	0	2	6	2.92	-316	-2.01	2.22	no trend
	1	S10S	8	0	2	3.6	2.8	-6	-0.619	26.81	no trend	62	5	<0.030	3.6	1.92	448	2.716	0.33	increasing
	1	S11S	8	0	5.5	6.9	6.2	-18	-2.119	1.7	no trend	57	0	3	7	5.82	-297	-2.038	2.08	no trend
	1	SE1D	8	0	11	13	11.75	-8	-0.873	19.14	no trend	58	0	4	18	11.43	-578	-3.871	0.01	decreasing
	1	SE1S	8	0	5.2	6.7	5.91	-4	-0.371	35.53	no trend	58	0	3	12	5.48	27	0.174	43.08	no trend
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	<20	<20	<20	N/A	N/A	N/A	N/A
	2	E2D	8	0	1.8	3.9	2.825	-8	-0.866	19.33	no trend	108	44	<0.030	<200	7.92	-1950	-5.175	0	decreasing
	2	E3D	8	0	6.1	7.5	6.73	-13	-1.496	6.73	no trend	67	0	2	10	6.62	-659	-3.562	0.02	decreasing
	2	E4D	8	0	14	16	15.13	-5	-0.503	30.76	no trend	38	0	3	26	17.42	-343	-4.302	0	decreasing
	2	N1D	8	0	5	6.7	5.61	-8	-0.866	19.33	no trend	108	34	<0.10	<200	10.03	-2755	-7.312	0	decreasing
	2	N2D	8	0	3.1	4.4	3.775	-7	-0.742	22.9	no trend	108	44	<0.10	<200	8.33	-1968	-5.223	0	decreasing
	2	N3D	8	0	7.7	9.5	8.21	-16	-1.87	3.07	no trend	105	29	<0.10	<200	12.72	-1522	-4.212	0	decreasing
	2	N5D	8	0	3.4	4.9	4.11	-9	-0.99	16.12	no trend	61	0	3	9	4.23	-727	-4.519	0	decreasing
	2	N5S	8	0	3.1	4.2	3.6	-9	-0.99	16.12	no trend	61	0	2	4.2	3.136	210	1.301	9.66	no trend
	2	NE1D	7	0	7.1	9	7.89	-2	-0.15	44.03	no trend	60	1	<0.50	9	6.74	334	2.125	1.68	no trend
	2	S11D	8	0	7.7	9	8.45	-16	-1.856	3.17	no trend	58	0	3	9.6	7.83	-227	-1.516	6.47	no trend
	2	W1D	8	0	7.5	9.2	8.34	-9	-0.99	16.12	no trend	108	30	<0.110	<200	10.82	-1143	-3.032	0.12	decreasing
	2	W2S	8	1	<0.50	3	2.106	-10	-1.113	13.28	no trend	60	2	<0.030	14	2.52	-242	-1.538	6.21	no trend
	WSW	DNR	7	0	4.5	7.2	5.96	5	0.601	27.4	no trend	67	0	4	12	5.89	-523	-2.825	0.24	decreasing
	WSW	DOT	8	0	5.6	8.1	6.59	-5	-0.495	31.04	no trend	107	32	<0.024	<200	11.08	-2466	-6.636	0	decreasing
	WSW	S7	8	0	4.1	7	5.58	12	1.361	8.68	no trend	108	44	<0.024	<200	9.36	-1704	-4.522	0	decreasing
	WSW	STP	7	0	17	58	29.4	-3	-0.3	38.2	no trend	108	34	<1.0	<200	15.88	-657	-1.742	4.08	no trend
	WSW	WR1	8	1	<0.50	4.4	3.22	-7	-0.748	22.72	no trend	65	16	<0.030	5	2.446	267	1.506	6.6	no trend

Table 7. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Iron, Total (mg/L)	1	C1S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	48	33	<0.00130	0.35	0.0534	-133	-1.174	12.03	no trend
	1	E1D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	105	71	<0.0010	3.89	0.0938	-2220	-6.145	0	decreasing
	1	E1S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	105	58	<0.0010	19	0.465	-3308	-9.158	0	decreasing
	1	E2S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	106	12	<0.00130	23	2.867	-3024	-8.253	0	decreasing
	1	E4S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	37	32	<0.0010	0.12	0.0286	-285	-3.719	0.01	decreasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	0	0.2	132	27.47	N/A	N/A	N/A	N/A
	1	N1SR	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	48	44	<0.0010	<0.18	0.01873	-486	-4.314	0	decreasing
	1	N2S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	44	39	<0.002	3.6	0.1116	N/A	N/A	N/A	N/A
	1	N3S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	103	45	<0.0010	16	1.24	-2365	-6.737	0	decreasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	5	<0.002	0.129	0.0459	-25	-2.164	1.52	no trend
	1	NE1S	7	7	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	60	44	<0.0010	0.22	0.0385	-578	-3.681	0.01	decreasing
	1	S10S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	62	39	<0.0010	2.05	0.1445	-936	-5.681	0	decreasing
	1	S11S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	57	9	<0.002	0.25	0.1193	-71	-0.482	31.49	no trend
	1	SE1D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	58	8	<0.150	23.6	4.94	-1216	-8.151	0	decreasing
	1	SE1S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	58	32	<0.0010	1.63	0.109	-882	-5.911	0	decreasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	11	21	17.33	N/A	N/A	N/A	N/A
	2	E2D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	102	65	<0.0010	23	0.3225	-2565	-7.414	0	decreasing
	2	E3D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	66	41	<0.0010	0.3	0.0438	-1089	-6.023	0	decreasing
	2	E4D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	38	8	<0.150	3.41	0.813	-304	-3.81	0.01	decreasing
	2	N1D	8	1	<0.150	0.43	0.322	-12	-1.361	8.68	no trend	105	2	<0.0012	2.77	0.49	-280	-0.773	21.99	no trend
	2	N2D	8	7	<0.150	1.3	0.228	N/A	N/A	N/A	N/A	104	67	<0.0012	1.85	0.0707	-2095	-5.882	0	decreasing
	2	N3D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	102	9	<0.0012	2.04	0.3535	-1855	-5.361	0	decreasing
	2	N5D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	61	52	<0.0010	<0.18	0.0201	-494	-3.069	0.11	decreasing
	2	N5S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	61	54	<0.0010	0.09	0.0193	-433	-2.689	0.36	decreasing
	2	NE1D	7	7	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	60	23	<0.0010	3.92	0.1857	-768	-4.893	0	decreasing
	2	S11D	8	7	<0.150	0.32	0.1056	N/A	N/A	N/A	N/A	58	7	<0.150	2.27	0.4535	-281	-1.878	3.02	no trend
	2	W1D	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	105	8	0.037	0.8	0.241	-2902	-8.033	0	decreasing
	2	W2S	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	60	38	<0.0010	1.92	0.1166	-779	-4.963	0	decreasing
	WSW	DNR	7	1	<0.150	0.41	0.3064	16	2.279	1.13	no trend	67	1	<0.18	15.1	0.595	196	1.055	14.57	no trend
	WSW	DOT	8	5	<0.150	0.57	0.2156	16	1.885	2.97	no trend	104	6	<0.010	0.854	0.251	-22	-0.059	47.65	no trend
	WSW	S7	8	6	<0.150	0.76	0.1975	11	1.257	10.45	no trend	105	18	<0.0010	14.7	0.3005	-42	-0.114	45.48	no trend
	WSW	STP	7	3	<0.150	0.4	0.235	6	0.76	22.38	no trend	103	21	<0.002	86	1.57	2111	6.013	0	increasing
	WSW	WR1	8	8	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	65	30	<0.0012	2.13	0.1244	-523	-2.956	0.16	decreasing

Table 7. Short and Long Term Statisitics for Select Parameters
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Manganese, Total (mg/L)	1	C1S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	48	10	<0.0000282	0.459	0.2083	-680	-6.036	0	decreasing
	1	E1D	8	0	0.039	0.049	0.0441	22	2.598	0.47	increasing	105	3	<0.0010	0.394	0.0463	1263	3.494	0.02	increasing
	1	E1S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	105	10	<0	0.97	0.152	-3262	-9.03	0	decreasing
	1	E2S	8	0	0.35	0.47	0.391	17	1.995	2.3	no trend	106	1	<0.0000282	2.8	0.982	-797	-2.173	1.49	no trend
	1	E4S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	38	12	<0	0.484	0.0263	-433	-5.435	0	decreasing
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	0	0.241	1.33	0.511	N/A	N/A	N/A	N/A
	1	N1SR	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	48	8	<0.00170	0.014	0.0053	-578	-5.13	0	decreasing
	1	N2S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	44	8	<0.00170	0.283	0.0633	N/A	N/A	N/A	N/A
	1	N3S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	103	22	<0.0000282	0.34	0.0263	-2092	-5.959	0	decreasing
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	0.136	0.194	0.1652	-27	-2.335	0.98	decreasing
	1	NE1S	7	7	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	60	25	<0	0.329	0.01326	-872	-5.556	0	decreasing
	1	S10S	8	0	0.021	0.081	0.0481	-26	-3.093	0.1	decreasing	62	0	0.021	0.365	0.1213	-1578	-9.579	0	decreasing
	1	S11S	8	0	0.2	0.21	0.2025	8	0.887	18.77	no trend	57	0	0.01	0.271	0.185	626	4.303	0	increasing
	1	SE1D	8	0	0.18	0.2	0.195	1	0	50	no trend	58	1	<0.0000282	0.778	0.2567	-715	-4.79	0	decreasing
	1	SE1S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	58	29	<0	0.241	0.01155	-911	-6.106	0	decreasing
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	0	0.13	0.22	0.1867	N/A	N/A	N/A	N/A
	2	E2D	8	0	0.059	0.067	0.063	9	0.99	16.12	no trend	103	27	<0.000090	2	0.0546	2306	6.569	0	increasing
	2	E3D	8	0	0.076	0.29	0.2308	-4	-0.371	35.53	no trend	66	0	0.07	0.344	0.237	575	3.177	0.07	increasing
	2	E4D	8	0	0.053	0.078	0.0675	3	0.247	40.23	no trend	38	0	0.002	0.393	0.1053	-443	-5.557	0	decreasing
	2	N1D	8	0	0.21	0.3	0.266	8	0.873	19.14	no trend	105	0	0.002	0.96	0.1848	2982	8.254	0	increasing
	2	N2D	8	7	<0.010	0.02	0.00688	N/A	N/A	N/A	N/A	104	46	<0.000030	0.041	0.00756	1943	5.455	0	increasing
	2	N3D	8	0	0.026	0.046	0.0316	8	0.866	19.33	no trend	102	0	0.009	0.25	0.0527	-863	-2.492	0.63	decreasing
	2	N5D	8	0	0.22	0.24	0.235	-5	-0.503	30.76	no trend	61	1	<0.0000282	0.265	0.1808	1087	6.758	0	increasing
	2	N5S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	61	25	<0	0.294	0.00932	-624	-3.878	0.01	decreasing
	2	NE1D	7	7	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	60	7	<0.00170	0.378	0.0345	-1152	-7.342	0	decreasing
	2	S11D	8	0	0.16	0.17	0.1613	-7	-0.76	22.37	no trend	58	0	0.078	0.22	0.1643	-109	-0.725	23.44	no trend
	2	W1D	8	0	0.14	0.16	0.1513	3	0.247	40.23	no trend	105	1	<0.0010	0.23	0.162	-2289	-6.335	0	decreasing
	2	W2S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	60	14	<0	2.42	0.1714	-1127	-7.183	0	decreasing
	WSW	DNR	7	0	0.1	0.12	0.1086	-6	-0.778	21.84	no trend	67	0	0.075	0.147	0.095	343	1.851	3.21	no trend
	WSW	DOT	8	0	0.13	0.17	0.145	17	1.995	2.3	no trend	104	0	0.062	0.17	0.1295	514	1.441	7.48	no trend
	WSW	S7	8	5	<0.010	0.092	0.02363	14	1.634	5.12	no trend	105	5	<0.00170	0.197	0.03244	-15	-0.039	48.45	no trend
	WSW	STP	7	0	0.081	0.099	0.0906	9	1.202	11.48	no trend	103	12	<0.0010	0.339	0.0741	3136	8.934	0	increasing
	WSW	WR1	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	65	33	<0	0.09	0.00486	-649	-3.67	0.01	decreasing

Table 7. Short and Long Term Statisitics for Select Parameters
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Aquifer	Station	Short Term Statistics (2016-2017)									Long Term Statistics (1985-2017)								
			Summary Statistics					Mann-Kendall Trend Analysis				Summary Statistics					Mann-Kendall Trend Analysis			
			N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result	N	# of NDs	Min	Max	Mean[a]	S	Z	Probability	Result
Vinyl Chloride (µg/L)	1	C1S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	48	20	<0.00590	4	0.602	-774	-6.873	0	decreasing
	1	E1D	8	0	0.16	0.26	0.205	0	0	50	no trend	72	17	<0.010	<3.0	0.399	372	1.804	3.56	no trend
	1	E1S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	79	39	<0.00590	2.2	0.2637	-1730	-7.321	0	decreasing
	1	E2S	8	1	<0.010	0.28	0.158	-22	-2.598	0.47	decreasing	84	5	<0.010	2.98	1.03	-2054	-7.931	0	decreasing
	1	E4S	8	5	<0.010	0.032	0.01425	6	0.623	26.65	no trend	38	26	<0.00590	0.26	0.04244	156	1.95	2.56	no trend
	1	N1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	2	<0.50	<0.50	<0.50	N/A	N/A	N/A	N/A
	1	N1SR	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	48	44	<0.00590	0.26	0.0323	N/A	N/A	N/A	N/A
	1	N2S	8	3	<0.010	0.21	0.0513	N/A	N/A	N/A	N/A	44	3	<0.010	7.9	2.943	N/A	N/A	N/A	N/A
	1	N3S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	77	70	<0.00590	<3.0	0.1097	N/A	N/A	N/A	N/A
	1	N4S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	<0.010	<0.50	0.1335	N/A	N/A	N/A	N/A
	1	NE1S	7	7	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	60	56	<0.00590	0.26	0.02775	N/A	N/A	N/A	N/A
	1	S10S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	62	8	<0.010	7.71	1.84	-1667	-10.12	0	decreasing
	1	S11S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	57	53	<0.00590	0.26	0.02365	N/A	N/A	N/A	N/A
	1	SE1D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	58	54	<0.00590	0.26	0.0276	N/A	N/A	N/A	N/A
	1	SE1S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	58	54	<0.00590	0.26	0.0276	N/A	N/A	N/A	N/A
	1	W1S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2	E2D	8	0	18	28	22	-22	-2.639	0.42	decreasing	77	8	<0.02	53.6	16.25	1493	6.563	0	increasing
	2	E3D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	67	60	<0.00590	0.26	0.0447	N/A	N/A	N/A	N/A
	2	E4D	8	7	<0.010	0.021	0.007	N/A	N/A	N/A	N/A	42	11	<0.010	0.26	0.0503	-352	-3.805	0.01	decreasing
	2	N1D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	73	69	<0.00590	<3.0	0.1147	N/A	N/A	N/A	N/A
	2	N2D	8	2	<0.010	0.044	0.03	3	0.249	40.16	no trend	80	16	<0.010	<3.0	0.1223	238	0.985	16.24	no trend
	2	N3D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	71	67	<0.00590	<3.0	0.094	N/A	N/A	N/A	N/A
	2	N5D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	61	10	<0.010	0.26	0.0362	190	1.176	11.98	no trend
	2	N5S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	61	57	<0.00590	0.26	0.0274	N/A	N/A	N/A	N/A
	2	NE1D	7	7	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	60	56	<0.00590	0.26	0.02775	N/A	N/A	N/A	N/A
	2	S11D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	59	55	<0.00590	0.26	0.02813	N/A	N/A	N/A	N/A
	2	W1D	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	69	65	<0.00590	<3.0	0.104	N/A	N/A	N/A	N/A
	2	W2S	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	60	55	<0.00590	0.26	0.02507	N/A	N/A	N/A	N/A
	WSW	DNR	7	7	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	67	63	<0.00590	0.26	0.0474	N/A	N/A	N/A	N/A
	WSW	DOT	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	69	65	<0.00590	<3.0	0.086	N/A	N/A	N/A	N/A
	WSW	S7	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	68	64	<0.00590	<3.0	0.0835	N/A	N/A	N/A	N/A
	WSW	STP	7	7	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	66	62	<0.00590	<3.0	0.086	N/A	N/A	N/A	N/A
	WSW	WR1	8	8	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	65	61	<0.00590	0.26	0.0797	N/A	N/A	N/A	N/A

Notes
[a] Arithmetic Mean
µg/L = micrograms per liter
mg/L = milligrams per liter
N = number of samples
N/A = not applicable (no data available or calculation not applicable)
ND = non-detect sample results
Mann-Kendall Analysis for Short Term Statistics required a minimum of four samples in order to assess.
Mann-Kendall Analysis for Long Term Statistics required a minimum of eight samples in order to assess.

Table 8. Landfill Gas Monitoring Data
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-BL-LG	2/1/2017 7:52	45.4	17.8	2.2	34.6	32	32	-39.9	-39.8	1.045	1.1	46	47	30.1		37
IC-BL-LG	2/1/2017 11:15	35.1	11.3	6.2	47.4	36	36	-38.7	-38.7	0.414	0.4	29	29	30.1		37
IC-BL-LG	3/24/2017 11:41	34.8	13.4	4.8	47	56	56	-37.2	-37.4	1.204	1	48	43	29.5		50
IC-BL-LG	5/4/2017 10:15	47.6	17.6	0.3	34.5	69	69	-35.7	-35.8	1.628	1.7	56	57	29.7		48
IC-BL-LG	6/14/2017 11:21	48.3	18.1	1.1	32.5	63	63	-36.8	-36.8	1.662	1.7	57	58	29.8		54
IC-BL-LG	8/2/2017 9:11	49.2	18.7	1.6	30.5	76	76	-35.4	-35.3	1.409	1.4	52	52	29.8		54
IC-BL-LG	8/3/2017 12:43	54.2	19.5	0	26.3	91	91	-35.2	-35.1	1.221	1.2	48	48	29.7		68
IC-BL-LG	9/27/2017 13:53	49.4	20.3	1.9	28.4	72	72	-36.5	-36.6	0.918	0.9	42	42	29.8		52
IC-BL-LG	9/28/2017 8:34	49.2	20.3	1.6	28.9	65	65	-37.4	-37.6	1.197	1.2	48	48	29.7		68
IC-BL-LG	11/8/2017 11:25	48.6	21.3	0.1	30	60	60	-38	-38	1.382	1.3	52	50	29.6		50
IC-BL-LG	11/9/2017 8:42	54.7	21.4	0.2	23.7	58	58	-38.4	-38.4	1.303	1.3	51	50	29.5		48
IC-BL-LG	11/9/2017 9:18	53	21.2	0.2	25.6	44	45	-37.8	-37.9	1.555	1.5	56	55	29.5		48
IC-BL-LG	12/15/2017 7:30	49.5	20.7	0.1	29.7	40	40	-38.9	-38.9	1.067	1.2	46	49	30		44
IC-BL-SV	2/1/2017 7:55	13.8	12.4	1.7	72.1	29	29	-50.7	-50.7	0.401	0.8	27	37	30.1		37
IC-BL-SV	2/1/2017 7:56	13.8	12.4	1.7	72.1	29	29	-50.7	-50.8	0.401	0.4	27	28	30.1		37
IC-BL-SV	2/1/2017 11:11	7.6	9.6	7.4	75.4	35	35	-49.1	-48.9	0.019	0	5	4	30.1		37
IC-BL-SV	3/24/2017 7:45	2.2	14.2	1	82.6	43	43	-50	-49.8	0.351	0.3	24	23	29.5		50
IC-BL-SV	3/24/2017 11:37	1.9	12.1	3.8	82.2	57	57	-48.7	-48.7	0.34	0.5	23	27	29.5		50
IC-BL-SV	5/4/2017 10:12	2.8	13.7	0.9	82.6	75	75	-47.5	-47.6	0.459	0.5	27	26	29.7		48
IC-BL-SV	6/14/2017 11:12	3.6	12.5	3.8	80.1	69	69	-48.5	-48.2	0.466	0.5	27	28	29.8		54
IC-BL-SV	8/2/2017 9:08	4.3	12.5	2.6	80.6	77	77	-46.8	-46.7	0.527	0.5	29	28	29.9		54
IC-BL-SV	8/3/2017 12:45	4.3	11.3	2.5	81.9	87	86	-46.2	-46	0.197	0.2	17	17	29.7		68
IC-BL-SV	9/27/2017 13:49	0.9	3.6	15.8	79.7	70	71	-47.7	-47.5	0.388	0.3	25	23	29.9		52
IC-BL-SV	9/28/2017 8:33	1	3.9	15.9	79.2	66	66	-48.9	-48.9	0.659	0.7	33	33	29.7		68
IC-BL-SV	11/8/2017 11:20	0	1.8	20.1	78.1	62	61	-48.8	-48.9	0.572	0.5	30	29	29.6		50
IC-BL-SV	11/9/2017 8:40	2.5	13.2	3.5	80.8	58	58	-49	-49.2	0.685	0.8	33	35	29.5		48
IC-BL-SV	11/9/2017 9:16	2.6	13.3	3.2	80.9	45	45	-49.2	-48.8	0.531	0.6	29	31	29.5		48
IC-BL-SV	12/15/2017 7:28	2.7	14.9	1.2	81.2	40	40	-52.2	-52.4	0.501	0.5	29	28	30		44
IC-FL-In	2/1/2017 8:01	45.6	16.6	2.1	35.7	36	40	0.6	0.6	0.082	0.1	51	48	30.1		37
IC-FL-In	2/1/2017 11:19	49.9	17	0.3	32.8	43	45	0.5	0.5	0.076	0.1	49	47	30.1		37
IC-FL-In	3/24/2017 7:54	47.3	17.9	0	34.8	50	50	0.5	0.6	0.269	0.3	92	94	29.5		50
IC-FL-In	3/24/2017 11:43	47.6	17.8	0	34.6	61	62	0.5	0.6	0.082	0.1	50	46	29.5		50
IC-FL-In	5/4/2017 10:44	49.8	18.1	0	32.1	70	70	0.7	0.6	0.143	0.1	66	60	29.7		48
IC-FL-In	5/4/2017 12:42	48.2	17.3	0.1	34.4	79	80	0.6	0.7		0.1	59	59	29.7		48
IC-FL-In	6/14/2017 11:28	48.2	18.2	1.3	32.3	72	72	0.7	0.6	0.12	0.1	60	63	29.8		54
IC-FL-In	8/2/2017 9:21	54.2	20.5	0	25.3	83	83	1	1	0.091	0.1	52	48	29.8		54
IC-FL-In	8/3/2017 12:51	53.4	19.2	0	27.4	102	102	0.7	0.6	0.178	0.2	72	69	29.7		68
IC-FL-In	9/27/2017 14:02	51.9	21.7	0.3	26.1	71	71	0.5	0.6	0.102	0.1	55	53	29.8		52
IC-FL-In	9/28/2017 8:42	53.1	21.6	0	25.3	65	65	0.6	0.6	0.156	0.2	69	71	29.7		68
IC-FL-In	11/8/2017 11:40	48	21.5	0.2	30.3	59	59	0.5	0.6	0.1	0.1	55	53	29.6		50
IC-FL-In	11/9/2017 8:46	54.3	21.6	0.3	23.8	57	57	0.6	0.6	0.103	0.1	56	54	29.5		48
IC-FL-In	11/9/2017 9:25	52.6	21.4	0.2	25.8	47	47	0.8	0.6	0.14	0.1	66	68	29.5		48
IC-FL-In	12/15/2017 7:49	51.7	21.4	0	26.9	39	39	1.1	1	0.086	0.1	52	58	30		44
IC-GP11D	3/24/2017 8:17	0	2	19.4	78.6									29.5		50
IC-GP11D	5/3/2017 16:08	0	1.5	20.1	78.4									29.9		58
IC-GP11D	8/3/2017 10:12	0	1.5	18.3	80.2									29.8		68
IC-GP11D	11/8/2017 10:29	0	1.7	19.6	78.7									29.7		50
IC-GP11S	3/24/2017 8:16	0	2.1	19.2	78.7									29.5		50
IC-GP11S	5/3/2017 16:06	0	2.2	19.4	78.4									29.9		58
IC-GP11S	8/3/2017 10:10	0	1.9	18	80.1									29.8		68
IC-GP11S	11/8/2017 10:26	0	2.2	19.3	78.5									29.7		50
IC-GP13D	3/24/2017 8:32	0	0.5	20.7	78.8									29.5		50
IC-GP13D	5/3/2017 14:17	0	0.5	20.6	78.9									29.9		58
IC-GP13D	8/2/2017 12:05	0	1.8	18.6	79.6									29.8		54
IC-GP13D	11/8/2017 8:27	0	2.4	18.5	79.1									29.7		50
IC-GP13S	3/24/2017 8:32	0	0.8	20.2	79									29.5		50
IC-GP13S	5/3/2017 14:16	0	0.4	20.7	78.9									29.9		58
IC-GP13S	8/2/2017 12:04	0	2.5	17.9	79.6									29.8		54

Table 8. Landfill Gas Monitoring Data
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-GP13S	11/8/2017 8:24	0	2.7	18.2	79.1									29.7		50
IC-GP15D	3/24/2017 9:15	0	16.3	1.3	82.4									29.5		50
IC-GP15D	5/3/2017 15:17	0	12.1	7	80.9									29.9		58
IC-GP15D	8/3/2017 9:32	4.3	18.2	0	77.5									29.8		68
IC-GP15D	9/27/2017 15:42	6.6	20.3	0	73.1									29.9		52
IC-GP15D	11/8/2017 10:16	3.2	20.9	0	75.9									29.7		50
IC-GP15S	3/24/2017 9:14	0	15.1	0.9	84									29.5		50
IC-GP15S	5/3/2017 15:14	0	9.2	9.4	81.4									29.9		58
IC-GP15S	8/3/2017 9:28	5.2	19.2	0	75.6									29.8		68
IC-GP15S	9/27/2017 15:38	9.5	20.9	0	69.6									29.9		52
IC-GP15S	11/8/2017 10:13	9.8	22	0	68.2									29.7		50
IC-GP17D	3/24/2017 9:18	0	9.4	9.4	81.2									29.5		50
IC-GP17D	5/3/2017 15:26	0	7.8	11.9	80.3									29.9		58
IC-GP17D	8/3/2017 9:39	0	8.5	8.8	82.7									29.8		68
IC-GP17D	9/27/2017 15:47	0	9	0	91									29.9		52
IC-GP17D	11/8/2017 10:21	0	10.2	7.8	82									29.7		50
IC-GP17S	3/24/2017 9:17	0	6	13.2	80.8									29.5		50
IC-GP17S	5/3/2017 15:23	0	4.6	16.5	78.9									29.9		58
IC-GP17S	8/3/2017 9:37	0	6.1	11.9	82									29.8		68
IC-GP17S	9/27/2017 15:46	0	7	0	93									29.9		52
IC-GP17S	11/8/2017 10:19	0	7.8	11.1	81.1									29.7		50
IC-GP-1D	3/24/2017 11:17	0	3.4	16	80.6									29.5		50
IC-GP-1D	5/3/2017 17:33	0	3.3	16.1	80.6									29.9		58
IC-GP-1D	8/3/2017 11:23	0	3.9	14.7	81.4									29.7		68
IC-GP-1D	11/8/2017 14:31	0	4.4	15.2	80.4									29.6		50
IC-GP-1S	3/24/2017 11:16	0	1.8	18.9	79.3									29.5		50
IC-GP-1S	5/3/2017 17:31	0	2.2	18.5	79.3									29.9		58
IC-GP-1S	8/3/2017 11:22	0	3.2	16.5	80.3									29.7		68
IC-GP-1S	11/8/2017 14:28	0	3.9	16.2	79.9									29.5		50
ICGP2018	3/24/2017 8:41	0	3.1	18.2	78.7									29.5		50
ICGP2018	5/3/2017 14:26	0	2.7	18.3	79									29.9		58
ICGP2018	8/2/2017 12:17	0	4.1	15.7	80.2									29.8		54
ICGP2018	11/8/2017 8:43	0	5	16	79									29.7		50
ICGP2038	3/24/2017 8:42	0	5.6	14.1	80.3									29.5		50
ICGP2038	5/3/2017 14:28	0	5.8	14.2	80									29.9		58
ICGP2038	8/2/2017 12:22	0	5.7	12.7	81.6									29.8		54
ICGP2038	11/8/2017 8:48	0	7.3	13.1	79.6									29.7		50
ICGP2058	3/24/2017 8:44	0	4.2	16.7	79.1									29.5		50
ICGP2058	5/3/2017 14:34	0	7.8	11	81.2									29.9		58
ICGP2058	8/2/2017 12:27	0	7.3	10.2	82.5									29.8		54
ICGP2058	11/8/2017 8:55	0	8.7	10.8	80.5									29.7		50
ICGP2078	3/24/2017 8:46	0	4.8	13.7	81.5									29.5		50
ICGP2078	5/3/2017 14:41	0	6.9	10.6	82.5									29.9		58
ICGP2078	8/2/2017 12:33	0	6.8	9.2	84									29.8		54
ICGP2078	11/8/2017 9:01	0	7.6	10.3	82.1									29.7		50
ICGP2098	3/24/2017 8:48	0	5.6	12	82.4									29.5		50
ICGP2098	5/3/2017 14:48	0	5.3	11.9	82.8									29.9		58
ICGP2098	8/2/2017 12:36	0	4.9	10.9	84.2									29.8		54
ICGP2098	11/8/2017 9:08	0	6.4	11.2	82.4									29.7		50
ICGP2118	3/24/2017 8:51	0	2.1	19.3	78.6									29.5		50
ICGP2118	5/4/2017 8:10	0	2.7	18.4	78.9									29.7		48
ICGP2118	8/2/2017 12:48	0	2	18.2	79.8									29.8		54
ICGP2118	11/8/2017 9:32	0	2.9	18.4	78.7									29.7		50
ICGP2138	3/24/2017 8:52	0	1.3	19.9	78.8									29.5		50
ICGP2138	5/4/2017 8:16	0	3.8	16.7	79.5									29.7		48
ICGP2138	8/2/2017 12:52	0	3.2	16.5	80.3									29.8		54
ICGP2138	11/8/2017 9:37	0	3.8	17.3	78.9									29.7		50
ICGP2158	3/24/2017 8:54	0	2.1	19.1	78.8									29.5		50
ICGP2158	5/4/2017 8:21	0	3.4	16.9	79.7									29.7		48
ICGP2158	8/2/2017 12:56	0	3.6	15.6	80.8									29.8		54

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2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
ICGP2158	11/8/2017 9:42	0	4.5	16.1	79.4											50
ICGP2178	3/24/2017 8:55	0	1.8	19.4	78.8									29.5		50
ICGP2178	5/4/2017 8:26	0	3.3	16.8	79.9									29.7		48
ICGP2178	8/2/2017 13:01	0	3.7	15.1	81.2									29.8		54
ICGP2178	11/8/2017 9:48	0	4.6	15.5	79.9									29.7		50
ICGP2198	3/24/2017 8:56	0	2.9	17.7	79.4									29.5		50
ICGP2198	5/4/2017 8:31	0	3.5	16.6	79.9									29.7		48
ICGP2198	8/2/2017 13:10	0	3.8	15	81.2									29.8		54
ICGP2198	11/8/2017 9:52	0	4	16.2	79.8									29.7		50
IC-GP-22	3/24/2017 9:06	0	5.6	13.5	80.9									29.5		50
IC-GP-22	5/4/2017 8:45	0	4.6	14.8	80.6									29.7		48
IC-GP-22	8/3/2017 9:17	0	4.7	13.8	81.5									29.8		68
IC-GP-22	11/8/2017 10:05	0	7	11.4	81.6									29.7		50
ICGP2318	3/24/2017 11:23	0	2.1	19	78.9									29.5		50
ICGP2318	5/3/2017 17:50	0	2.1	19.1	78.8									29.9		58
ICGP2318	8/3/2017 10:34	0	2.7	17.9	79.4									29.7		68
ICGP2318	11/8/2017 14:44	0	3.2	17.9	78.9									29.5		50
ICGP2338	3/24/2017 11:25	0	1.7	19.5	78.8									29.5		50
ICGP2338	5/3/2017 17:54	0	2.3	18.8	78.9									29.9		58
ICGP2338	8/3/2017 10:42	0	2.6	17.7	79.7									29.7		68
ICGP2338	11/8/2017 14:47	0	3.1	17.8	79.1									29.6		50
ICGP2358	3/24/2017 11:28	0	2.7	17.9	79.4									29.5		50
ICGP2358	5/3/2017 17:59	0	2.5	18.4	79.1									29.9		58
ICGP2358	8/3/2017 10:51	0	2.7	17.3	80									29.7		68
ICGP2358	11/8/2017 14:52	0	3.1	17.4	79.5									29.6		50
ICGP2378	3/24/2017 11:30	0	0.3	20.9	78.8									29.5		50
ICGP2378	5/3/2017 18:02	0	2.9	17.7	79.4									29.9		58
ICGP2378	8/3/2017 10:57	0	2.9	16.5	80.6									29.7		68
ICGP2378	11/8/2017 14:58	0	3.3	17.1	79.6									29.6		50
ICGP2398	3/24/2017 11:32	0	2.2	18.5	79.3									29.5		50
ICGP2398	5/3/2017 18:05	0	2.3	18.4	79.3									29.9		58
ICGP2398	8/3/2017 11:03	0	2.9	16.4	80.7									29.7		68
ICGP2398	11/8/2017 15:05	0	3.4	17.1	79.5									29.6		50
ICGP2418	3/24/2017 11:06	0	4.4	14.7	80.9									29.5		50
ICGP2418	5/3/2017 16:58	0	3.7	16.4	79.9									29.9		58
ICGP2418	8/3/2017 11:41	0	4.5	13.2	82.3									29.7		68
ICGP2418	11/8/2017 14:14	0	5.9	13.4	80.7									29.6		50
ICGP2438	3/24/2017 11:07	0	2.2	17.9	79.9									29.5		50
ICGP2438	5/3/2017 17:05	0	5.2	12.9	81.9									29.9		58
ICGP2438	8/3/2017 11:46	0	4.9	11.7	83.4									29.7		68
ICGP2438	11/8/2017 14:18	0	6.4	11.5	82.1									29.6		50
ICGP2458	3/24/2017 11:09	0	3.2	15.3	81.5									29.5		50
ICGP2458	5/3/2017 17:11	0	4.9	12	83.1									29.9		58
ICGP2458	8/3/2017 11:50	0	4.8	11.3	83.9									29.7		68
ICGP2458	11/8/2017 14:20	0	5.5	11.5	83									29.6		50
ICGP2478	3/24/2017 11:10	0	3.7	13.2	83.1									29.5		50
ICGP2478	5/3/2017 17:16	0	3.7	12.8	83.5									29.9		58
ICGP2478	8/3/2017 11:55	0	3.7	11.9	84.4									29.7		68
ICGP2478	11/8/2017 14:22	0	4.6	12.1	83.3									29.6		50
ICGP2498	3/24/2017 11:12	0	3.1	14	82.9									29.5		50
ICGP2498	5/3/2017 17:22	0	3.2	13.6	83.2									29.9		58
ICGP2498	8/3/2017 11:58	0	3	12.6	84.4									29.7		68
ICGP2498	11/8/2017 14:24	0	3.7	12.9	83.4									29.6		50
ICGP2518	3/24/2017 10:46	0	5.5	15.3	79.2									29.5		50
ICGP2518	5/3/2017 16:22	0	5.3	15.9	78.8									29.9		58
ICGP2518	8/2/2017 13:24	0	7.1	12.8	80.1									29.8		54

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
ICGP2518	11/8/2017 13:31	0	7.8	13.8	78.4									29.6		50
ICGP2538	3/24/2017 10:48	0	5.1	15.5	79.4									29.5		50
ICGP2538	5/3/2017 16:28	0	4.7	16.1	79.2									29.9		58
ICGP2538	8/2/2017 13:30	0	4.9	14	81.1									29.8		54
ICGP2538	11/8/2017 13:37	0	6.5	13.9	79.6									29.6		50
ICGP2558	3/24/2017 10:50	0	4.7	15.1	80.2									29.5		50
ICGP2558	5/3/2017 16:35	0	4.7	15.6	79.7									29.9		58
ICGP2558	8/2/2017 13:37	0	4.4	14.5	81.1									29.8		54
ICGP2558	11/8/2017 13:44	0	5.4	14.5	80.1									29.6		50
ICGP2578	3/24/2017 10:52	0	4.7	15.3	80									29.5		50
ICGP2578	5/3/2017 16:42	0	4.6	15.4	80									29.9		58
ICGP2578	8/2/2017 13:42	0	4.3	14.5	81.2									29.8		54
ICGP2578	11/8/2017 13:49	0	5.1	14.8	80.1									29.6		50
ICGP2598	3/24/2017 10:55	0	4.2	15.4	80.4									29.5		50
ICGP2598	5/3/2017 16:47	0	4.2	15.6	80.2									29.9		58
ICGP2598	8/2/2017 13:48	0	4	14.5	81.5									29.8		54
ICGP2598	11/8/2017 13:53	0	4.7	15	80.3									29.6		50
ICGP2618	3/24/2017 8:24	0	3.5	15.9	80.6									29.5		50
ICGP2618	5/3/2017 14:59	0	3.5	15.5	81									30		58
ICGP2618	5/3/2017 16:19	0	5.3	15.9	78.8									29.9		58
ICGP2618	8/2/2017 11:55	0	3.5	14.9	81.6									29.8		54
ICGP2618	11/8/2017 9:14	0	4.2	15.2	80.6									29.7		50
ICGP2638	3/24/2017 8:25	0	2.1	18.6	79.3									29.5		50
ICGP2638	5/3/2017 15:04	0	2.1	18	79.9									30		58
ICGP2638	8/2/2017 11:58	0	2.7	17	80.3									29.8		54
ICGP2638	11/8/2017 9:19	0	3.1	17.9	79									29.7		50
ICGP2658	3/24/2017 8:27	0	2.3	17.1	80.6									29.5		50
ICGP2658	5/3/2017 15:07	0	2.7	16	81.3									30		58
ICGP2658	8/2/2017 12:00	0	2.7	15.8	81.5									29.8		54
ICGP2658	11/8/2017 9:23	0	3.4	15	81.6									29.7		50
IC-GP-27	3/24/2017 8:37	0	7.8	10.8	81.4									29.5		50
IC-GP-27	5/3/2017 14:21	0	5.9	11.3	82.8									29.9		58
IC-GP-27	8/2/2017 12:10	0	7.6	9.6	82.8									29.8		54
IC-GP-27	11/8/2017 8:35	0	8.9	10.3	80.8									29.7		50
IC-GP-28	3/24/2017 8:59	0	6.1	13.6	80.3									29.5		50
IC-GP-28	5/4/2017 9:53	0	7.7	10.3	82									29.7		48
IC-GP-28	8/2/2017 12:43	0	7.1	9.9	83									29.8		54
IC-GP-28	11/8/2017 9:56	0	8.4	11.2	80.4									29.7		50
ICGP2998	3/24/2017 9:04	0	2.4	17.3	80.3									29.5		50
ICGP2998	5/4/2017 8:42	0	4.2	12.9	82.9									29.7		48
ICGP2998	8/3/2017 9:14	0	4.5	11	84.5									29.8		68
ICGP2998	11/8/2017 10:02	0	5.5	11.7	82.8									29.7		50
ICGP3018	2/1/2017 9:26	35.4	6.9	0.5	57.2									30		37
ICGP3018	3/24/2017 10:06	34.9	7.4	0	57.7									29.5		50
ICGP3018	5/4/2017 8:54	38.1	7	0	54.9									29.7		48
ICGP3018	6/14/2017 12:57	41.3	16.3	0.2	42.2									29.8		54
ICGP3018	8/2/2017 11:03	42.5	5.6	0	51.9									29.8		54
ICGP3018	9/27/2017 15:02	42.9	6.3	0	50.8									29.9		52
ICGP3018	9/28/2017 7:52	48.3	8.3	0	43.4									29.7		68
ICGP3018	11/8/2017 10:41	42.2	7.8	0	50									29.7		50
ICGP3018	12/15/2017 8:57	37.4	6.2	2.2	54.2									30		44
ICGP3038	2/1/2017 9:31	24.4	11.5	0	64.1									30		37
ICGP3038	3/24/2017 10:10	25.9	11.6	0	62.5									29.5		50
ICGP3038	5/4/2017 9:00	25.4	11.1	0	63.5									29.7		48
ICGP3038	6/14/2017 13:00	23.9	10.9	0	65.2									29.8		54
ICGP3038	8/2/2017 11:07	24.7	10.4	0	64.9									29.8		54
ICGP3038	9/27/2017 15:08	23.4	10.5	0	66.1									29.9		52
ICGP3038	9/28/2017 7:55	23.7	9.7	0	66.6									29.7		68
ICGP3038	11/8/2017 10:46	22.6	12	0	65.4									29.7		50
ICGP3038	12/15/2017 9:03	24.8	12.4	0	62.8									30		44

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
ICGP3069	2/1/2017 9:38	4.6	15.9	0	79.5									30		37
ICGP3069	3/24/2017 10:16	4.6	15.6	0	79.8									29.5		50
ICGP3069	5/4/2017 9:06	5.4	15.1	0	79.5									29.7		48
ICGP3069	6/14/2017 13:04	6.1	15.3	0	78.6									29.8		54
ICGP3069	8/2/2017 11:12	6.2	14.6	0	79.2									29.8		54
ICGP3069	9/27/2017 15:14	5.5	13.4	0	81.1									29.9		52
ICGP3069	9/28/2017 7:57	6.4	14.9	0	78.7									29.7		68
ICGP3069	11/8/2017 10:54	5.6	16.4	0	78									29.7		50
ICGP3069	12/15/2017 9:09	6.7	17	0	76.3									30		44
ICGP3081	2/1/2017 9:45	2.3	15.3	0	82.4									30.1		37
ICGP3081	3/24/2017 10:22	2.5	15.4	0	82.1									29.5		50
ICGP3081	5/4/2017 9:14	2.5	15.4	0	82.1									29.7		48
ICGP3081	6/14/2017 13:09	3.6	15.2	0	81.2									29.8		54
ICGP3081	8/2/2017 11:16	3.9	14	0	82.1									29.8		54
ICGP3081	9/27/2017 15:17	44	6.4	0	49.6									29.9		52
ICGP3081	9/28/2017 7:59	2.5	7.9	0.4	89.2									29.7		68
ICGP3081	11/8/2017 11:00	3.3	16	0	80.7									29.6		50
ICGP3081	12/15/2017 9:15	4.5	16.6	0	78.9									30		44
ICGP3092	2/1/2017 9:53	0.3	14.9	0	84.8									30		37
ICGP3092	5/4/2017 9:26	0	14	0.2	85.8									29.7		48
ICGP3092	6/14/2017 13:15	1.3	14.9	0	83.8									29.8		54
ICGP3092	8/2/2017 11:23	0.7	13.9	0	85.4									29.8		54
ICGP3092	9/27/2017 15:21	1	9.7	0	89.3									29.9		52
ICGP3092	9/28/2017 8:00	1.2	11.5	0	87.3									29.7		68
ICGP3092	11/8/2017 11:07	0	15.3	0	84.7									29.6		50
ICGP3092	12/15/2017 9:21	1.2	15.6	0	83.2									30		44
IC-GP-6D	5/3/2017 16:53	0	2.1	19.1	78.8									29.9		58
IC-GP-6D	8/2/2017 13:56	0	4.3	14.6	81.1									29.8		54
IC-GP-6D	11/8/2017 14:02	0	6.2	13.5	80.3									29.6		50
IC-GP-6S	3/24/2017 10:58	0	4	15.5	80.5									29.5		50
IC-GP-6S	3/24/2017 11:02	0	6	13.4	80.6									29.5		50
IC-GP-6S	5/3/2017 16:52	0	5.4	14.8	79.8									29.9		58
IC-GP-6S	8/2/2017 13:54	0	4.6	14	81.4									29.8		54
IC-GP-6S	11/8/2017 14:00	0	7	12.5	80.5									29.6		50
IC-GPS6D	3/24/2017 8:06	9	14.9	0	76.1									29.5		50
IC-GPS6D	5/3/2017 15:45	2.3	16.4	0	81.3									29.9		58
IC-GPS6D	8/3/2017 9:45	14.9	15.7	0	69.4									29.8		68
IC-GPS6D	11/8/2017 8:02	10.4	16.2	0	73.4									29.7		50
IC-GPS6S	3/24/2017 8:05	0	1.4	19.9	78.7									29.5		50
IC-GPS6S	5/3/2017 15:42	2.1	15.6	0	82.3									29.9		58
IC-GPS6S	8/3/2017 9:44	2.8	13.9	0	83.3									29.8		68
IC-GPS6S	11/8/2017 7:59	2.7	15.6	0	81.7									29.7		50
IC-GP-W1	3/24/2017 8:11	0	1.9	18.9	79.2									29.5		50
IC-GP-W1	5/3/2017 15:57	0	3.5	18.1	78.4									29.9		58
IC-GP-W1	8/3/2017 9:58	0	3.3	16.5	80.2									29.8		68
IC-GP-W1	11/8/2017 8:12	0	3.9	18.3	77.8									29.7		50
IC-HGW-1	2/1/2017 8:11	57.3	18.4	0	24.3	34	34	-0.1	-0.1	4.061	4.3	1	2	30	-6.5	37
IC-HGW-1	3/24/2017 9:27	55.3	19.5	0	25.2	48	48	-0.2	-0.2	3.695	3.7	1	1	29.4	-6.2	50
IC-HGW-1	5/4/2017 10:51	56.7	18.7	0	24.6	68	67	-0.2	-0.2	2.702	2.7	1	1	29.7	-4.6	48
IC-HGW-1	5/4/2017 12:30	56.4	18.4	0	25.2	70	69	-0.2	-0.2		4.3	1	1	29.7	-4.3	48
IC-HGW-1	6/14/2017 11:45	54.5	20.3	0	25.2	64	64	-0.3	-0.4	3.87	3.9	1	1	29.8	-4	54
IC-HGW-1	8/2/2017 9:40	59.9	21.1	0	19	75	76	0	0	3.794	3.8	1	1	29.8	-3.7	54
IC-HGW-1	9/27/2017 14:11	61.1	23.5	0	15.4	71	70	0	0	4.803	5.1	2	2	29.8	-4.4	52
IC-HGW-1	11/8/2017 11:52	57.6	24.1	0	18.3	56	56	0.1	0.1	6.509	6.6	2	2	29.6	-6.1	50
IC-HGW-1	12/15/2017 7:55	60.4	22.1	0	17.5	45	45	-0.3	-0.3	7.708	7.6	2	2	30	-7.3	44
IC-HGW-2	2/1/2017 8:20	72.8	22.1	0	5.1	33	33	-0.1	-0.1	1.564	1.8	3	3	30	-6.5	37
IC-HGW-2	3/24/2017 9:33	66.2	23.1	0	10.7	50	50	-0.2	-0.2	1.743	1.9	3	3	29.4	-6.2	50
IC-HGW-2	5/4/2017 10:57	67.8	24.4	0	7.8	66	66	-0.1	-0.1	1.261	1.3	2	2	29.7	-4.5	48
IC-HGW-2	5/4/2017 12:33	69.8	22	0	8.2	67	66	0	-0.1		2.2	2	3	29.7	-4.2	48
IC-HGW-2	6/14/2017 12:00	65	26.2	0	8.8	62	62	-0.3	-0.3	1.809	1.8	3	3	29.8	-4.2	54

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IC-HGW-2	8/2/2017 9:51	67.8	28.9	0	3.3	80	80	0	0	1.728	1.7	2	2	29.8	-3.6	54
IC-HGW-2	8/3/2017 12:04	69.9	29	0	1.1	88	88	-0.1	-0.2	1.725	1.9	2	3	29.7	-3.9	68
IC-HGW-2	9/27/2017 14:20	66.2	29.7	0	4.1	75	75	0	0	2.418	2.4	3	3	29.8	-4.4	52
IC-HGW-2	9/28/2017 8:14	65	30.4	0	4.6	69	69	0	-0.1	2.356	4	3	4	29.7	-4.3	68
IC-HGW-2	11/8/2017 12:02	63.7	28.3	0	8	62	62	0	0	5.055	5	5	4	29.6	-6	50
IC-HGW-2	11/9/2017 9:00	64.3	26.6	0	9.1	56	51	-0.3	-0.3	4.5	5.8	4	5	29.5	-5.9	48
IC-HGW-2	12/15/2017 8:03	70.5	17.9	0	11.6	53	54	-0.6	-0.6	7.833	7.7	6	6	30	-7.4	44
IC-HGW-3	2/1/2017 8:25	51.4	25.8	0	22.8	35	35	0	0	6.76	7	2	2	30	-6.5	37
IC-HGW-3	3/24/2017 9:36	44.5	24.5	0	31	50	50	0	0	6.306	7	2	2	29.4	-6.1	50
IC-HGW-3	5/4/2017 11:00	49.7	26.4	0	23.9	71	71	0	0	4.769	4.7	1	1	29.7	-4.5	48
IC-HGW-3	6/14/2017 12:11	51.3	28.6	0	20.1	64	65	-0.1	-4.1	4.319	0.3	1	0	29.8	-4.2	54
IC-HGW-3	8/2/2017 9:55	60.6	32.1	0	7.3	82	82	0.2	0.2	4.097	4.1	1	1	29.8	-3.6	54
IC-HGW-3	8/3/2017 12:08	63.6	30.6	0	5.8	90	90	0	0	4.095	4.1	1	1	29.7	-3.9	68
IC-HGW-3	9/27/2017 14:22	58.6	32.8	0	8.6	80	80	0.1	0.1	4.943	4.9	1	1	29.8	-4.5	52
IC-HGW-3	11/8/2017 12:05	49.4	31.3	0	19.3	60	60	0.2	0.2	6.558	6.6	2	2	29.6	-6.1	50
IC-HGW-3	12/15/2017 8:09	53.2	30.6	0	16.2	48	48	-0.1	-0.1	7.673	7.8	2	2	30	-7.5	44
IC-HGW-4	2/1/2017 8:43	54.7	19.9	0	25.4	39	40	0	0	4.607	4.8	2	2	30	-6.7	37
IC-HGW-4	3/24/2017 9:40	45.6	23.7	0	30.7	48	48	0	0	4.245	4.3	1	1	29.4	-6.2	50
IC-HGW-4	5/4/2017 11:04	50.8	24.7	0	24.5	70	70	0.1	0.1	3.462	3.4	1	1	29.7	-4.6	48
IC-HGW-4	6/14/2017 12:15	55.4	25.6	0	19	66	66	0	0	3.041	3	1	1	29.8	-4.1	54
IC-HGW-4	8/2/2017 10:01	61.4	30.6	0	8	78	78	0.2	0.2	2.915	2.9	1	1	29.8	-3.7	54
IC-HGW-4	8/3/2017 12:12	64.1	30.6	0	5.3	94	92	0	0	2.878	4.1	1	1	29.7	-3.9	68
IC-HGW-4	9/27/2017 14:28	57.7	30.7	0	11.6	77	76	0.2	0.2	5.04	5.1	2	2	29.8	-4.4	52
IC-HGW-4	11/8/2017 12:10	48.2	27.9	0	23.9	59	60	0.3	0.3	6.768	6.6	2	2	29.6	-6.1	50
IC-HGW-4	12/15/2017 8:17	52.9	22.5	0	24.6	48	48	0	0	8.103	7.9	2	2	30	-7.5	44
IC-HGW-5	2/1/2017 8:47	54.7	23.3	0	22	38	38	0	0	3.732	3.6	1	1	30	-6.8	37
IC-HGW-5	3/24/2017 9:43	45.1	22.3	0	32.6	49	49	0	0	3.638	3.8	1	1	29.4	-6.3	50
IC-HGW-5	5/4/2017 11:07	46.9	23	0	30.1	74	73	0.1	0.1	2.44	2.4	1	1	29.7	-4.7	48
IC-HGW-5	6/14/2017 13:33	53.5	25.1	0	21.4	70	70	0	0	2.24	2.3	1	1	29.8	-4.2	54
IC-HGW-5	8/2/2017 10:13	57.8	27.9	0	14.3	83	82	0.2	0.2	2.073	2.1	1	1	29.8	-3.9	54
IC-HGW-5	8/3/2017 12:16	58.1	26.8	0	15.1	92	92	0	0	1.965	4.1	1	1	29.7	-3.8	68
IC-HGW-5	9/27/2017 14:32	52.1	26.2	0	21.7	82	81	0.2	0.2	5.083	5.1	2	2	29.8	-4.5	52
IC-HGW-5	11/8/2017 12:14	44.6	25.3	0	30.1	59	59	0.3	0.2	7.295	7.1	2	2	29.6	-6.3	50
IC-HGW-5	12/15/2017 8:25	48.3	25.4	0	26.3	48	48	-0.1	-0.1	7.935	7.9	2	2	30	-7.6	44
IC-HGW-6	2/1/2017 8:52	48.7	19.5	0	31.8	41	41	0	0	4.959	4.9	2	2	30	-7.9	37
IC-HGW-6	3/24/2017 9:45	47.3	16.9	0	35.8	48	48	0	0	3.971	3.9	1	1	29.4	-6.3	50
IC-HGW-6	5/4/2017 11:10	47.8	17.2	0	35	70	70	0.1	0.1	2.898	2.9	1	1	29.7	-4.7	48
IC-HGW-6	6/14/2017 12:23	54.7	17.3	0	28	67	68	0	0	2.652	2.6	1	1	29.8	-4.3	54
IC-HGW-6	8/2/2017 10:15	58.5	19.1	0	22.4	83	83	0.2	0.2	2.409	2.4	1	1	29.8	-3.9	54
IC-HGW-6	8/3/2017 12:20	56	18.8	0	25.2	92	91	0	0	2.108	4	1	1	29.7	-3.8	68
IC-HGW-6	9/27/2017 14:34	50.1	21	0	28.9	81	81	0.2	0.2	4.815	5.3	2	2	29.8	-4.4	52
IC-HGW-6	11/8/2017 12:18	44.3	21	0	34.7	57	57	0.1	0.1	6.445	6.3	2	2	29.6	-6.4	50
IC-HGW-6	12/15/2017 8:27	51.1	22	0	26.9	48	48	-0.1	-0.1	8.132	8.2	2	2	30	-7.8	44
IC-HGW-7	2/1/2017 8:57	49.4	15.2	0	35.4	38	38	0	0	4.882	5	2	2	30	-8	37
IC-HGW-7	3/24/2017 9:49	44.8	18.1	0	37.1	49	49	0	0	4.276	4.1	1	1	29.4	-6.4	50
IC-HGW-7	5/4/2017 11:15	44.3	18.2	0	37.5	70	70	0	0.1	2.984	3.1	1	1	29.7	-4.8	48
IC-HGW-7	6/14/2017 12:28	52.4	17.7	0	29.9	66	66	0	0	2.733	2.7	1	1	29.8	-4.4	54
IC-HGW-7	8/2/2017 10:25	53.9	20.5	0	25.6	82	82	0.2	0.2	2.215	2.2	1	1	29.8	-4	54
IC-HGW-7	8/3/2017 12:27	50.8	19.7	0	29.5	95	93	0	0	1.847	4	1	1	29.7	-3.7	68
IC-HGW-7	9/27/2017 14:39	49.5	21.3	0	29.2	80	79	0.1	0.1	5.126	5.2	2	2	29.8	-4.7	52
IC-HGW-7	11/8/2017 12:23	44.4	20.3	0	35.3	59	59	0.1	0.1	6.836	7	2	2	29.6	-6.5	50
IC-HGW-7	12/15/2017 8:32	52.8	15.9	0	31.3	48	48	-0.1	-0.1	8.358	8	2	2	30	-8	44
IC-HGW-8	2/1/2017 9:04	44.9	16.6	0	38.5	43	43	0	0	5.735	5.6	2	2	30	-7.9	37
IC-HGW-8	3/24/2017 9:53	40.4	15.5	0	44.1	48	48	0	0	4.288	4.3	1	1	29.4	-6.4	50
IC-HGW-8	5/4/2017 11:25	40.9	15.8	0	43.3	70	69	0	0	3.227	3.2	1	1	29.7	-5.1	48

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IC-HGW-8	6/14/2017 12:34	46.5	16.2	0	37.3	66	66	-0.1	-0.1	2.911	2.9	1	1	29.8	-4.5	54
IC-HGW-8	8/2/2017 10:34	46	16.9	0	37.1	80	80	0.2	0.1	2.521	2.5	1	1	29.8	-4	54
IC-HGW-8	8/3/2017 12:32	44.3	16.4	0	39.3	93	87	0	0	2.252	3.7	1	1	29.7	-3.5	68
IC-HGW-8	9/27/2017 14:45	44.3	18.3	0	37.4	78	77	0.1	0.1	5.163	5.2	2	2	29.8	-4.6	52
IC-HGW-8	11/8/2017 12:29	41.7	18.5	0	39.8	59	59	0.1	0.1	7.167	7	2	2	29.6	-6.6	50
IC-HGW-8	12/15/2017 8:38	44.5	18.2	0	37.3	49	49	-0.2	-0.2	8.351	8.3	2	2	30	-8	44
IC-HGW-9	2/1/2017 9:17	0.7	4.2	19.2	75.9	40	38	0	0	-0.007	0			30	-8.3	37
IC-HGW-9	3/24/2017 10:01	43.4	15.1	0	41.5	48	48	0	0	-0.005	0			29.5	-6.3	50
IC-HGW-9	5/4/2017 11:40	46.4	16.1	2	35.5	71	71	0	0	-0.01	0			29.7	-2.2	48
IC-HGW-9	6/14/2017 12:49	42.7	17.4	3.3	36.6	68	68	0	0	-0.009	0			29.8	-4.1	54
IC-HGW-9	8/2/2017 10:54	42.4	18.2	3.6	35.8	85	85	0	0	0	0			29.8	-3.9	54
IC-HGW-9	9/27/2017 14:53	45.1	20.3	2.3	32.3	85	85	0	0	-0.069	-0.1			29.9	-4.3	52
IC-HGW-9	11/8/2017 12:38	53.8	22	0.4	23.8	55	54	0	0	0	0			29.6	-5.7	50
IC-HGW-9	12/15/2017 8:48	59.2	20.7	0	20.1	40	40	0	0	-0.004	0			30	-7.4	44
IC-SC-OF	3/24/2017 9:07	0	0.4	20	79.6									29.5		50
IC-SC-OF	5/4/2017 8:46	0	0.9	20.5	78.6									29.7		48
IC-SC-OF	8/3/2017 9:18	0	0.5	20.2	79.3									29.8		68
IC-SC-OF	11/8/2017 10:08	0	0.6	20.9	78.5									29.7		50
IC-SH-BA	3/24/17 9:08	0	0.3	21	78.7									29.5		50
IC-SH-BA	5/4/17 8:47	0	0.6	20.7	78.7									29.7		48
IC-SH-BA	8/3/17 9:18	0	0.4	20.4	79.2									29.8		68
IC-SH-BA	11/8/17 10:07	0	1	20.9	78.1									29.7		50
IC-T--LG	2/1/17 7:48	48.2	15.1	2.4	34.3	25	25	-7.2	-7.1	7.131	7.4	0	0	30.1		37
IC-T--LG	2/1/17 11:05	44	15.4	2.3	38.3	40	40	-8.8	-8.8	8.683	8.8	0	0	30.1		37
IC-T--LG	3/24/17 7:49	48.7	18	0	33.3	44	43	-6.6	-6.6	6.794	6.6	0	0	29.5		50
IC-T--LG	5/4/17 10:18	51.2	18.4	0	30.4	79	84	-7.3	-7.3	7.293	7.6	57	57	29.7		48
IC-T--LG	6/14/17 11:17	48.9	18.3	1.2	31.6	69	71	-4.4	-4.4	4.419	4.4	0	0	29.8		54
IC-T--LG	8/2/17 9:14	54.9	20.7	0	24.4	81	81	-4.2	-4.2	4.634	4.6	0	0	29.8		54
IC-T--LG	8/3/17 12:41	54.4	19.6	0	26	88	89	-4	-4	3.977	4	0	0	29.7		68
IC-T--LG	9/27/17 13:54	53.3	22	0.3	24.4	71	71	-5.1	-5	5.244	5.1	0	0	29.8		52
IC-T--LG	11/8/17 11:27	48.8	21.8	0	29.4	59	59	-8.7	-8.7	8.828	8.7	0	0	29.6		50
IC-T--LG	12/15/17 7:34	52.4	20.1	0	27.5	40	40	-8.2	-9.3	8.638	9.7	0	0	30		44
IC-T--SV	2/1/17 7:50	12	13.2	2.6	72.2	25	25	-15.8	-15.8	15.83	15.9	0	0	30.1		37
IC-T--SV	2/1/17 11:06	10.1	11.6	3.8	74.5	36	36	-15.3	-15.3	15.432	15.5	0	0	30.1		37
IC-T--SV	3/24/17 7:51	2.3	13.2	2.7	81.8	43	43	-18.6	-18.5	18.722	18.7	0	0	29.5		50
IC-T--SV	5/4/17 10:20	3.2	14.4	0.2	82.2	90	92	-18.9	-18.9	19.125	19.1	27	27	29.7		48
IC-T--SV	6/14/17 11:18	4.7	15	0.5	79.8	69	70	-18.9	-18.9	18.828	18.8	0	0	29.8		54
IC-T--SV	8/2/17 9:17	4.9	14	0.6	80.5	84	83	-18.1	-18.1	18.428	18.4	0	0	29.8		54
IC-T--SV	8/3/17 12:42	4.6	12.7	1.4	81.3	91	91	-14	-14	13.986	14	0	0	29.7		68
IC-T--SV	9/27/17 13:55	4.6	15.2	1	79.2	71	70	-13.5	-13.5	13.644	13.6	0	0	29.8		52
IC-T--SV	11/8/17 11:32	2.1	15.3	1.2	81.4	58	58	-9.7	-9.7	9.688	9.7	0	0	29.6		50
IC-T--SV	12/15/17 7:38	4.4	14.1	1.1	80.4	40	40	-15.1	-16.1	15.198	16.2	0	0	30		44
IC-VGW-1	2/1/17 8:14	11.7	12.3	0	76	34	34	-1.6	-1.6	8.015	7.9	6	6	30	-15.5	37
IC-VGW-1	3/24/17 9:29	2.8	15.5	0	81.7	48	48	-1.7	-1.7	9.098	9.1	6	6	29.4	-18.2	50
IC-VGW-1	5/4/17 10:52	4.5	15.1	0	80.4	63	63	-1.7	-1.7	9.663	9.6	6	6	29.7	-18.6	48
IC-VGW-1	6/14/17 11:50	4.8	15.3	0	79.9	65	65	-2	-2	9.057	9.2	6	6	29.8	-19	54
IC-VGW-1	8/2/17 9:42	4.7	14.9	0	80.4	75	75	-1.5	-1.5	8.562	8.5	5	5	29.8	-17.9	54
IC-VGW-1	9/27/17 14:14	4	15	0	81	71	71	-1.1	-1.1	7.014	7	5	5	29.8	-12.8	52
IC-VGW-1	9/28/17 8:10	3.6	14.8	0	81.6	65	66	-1.1	-1.3	5.545	8.1	4	5	29.7	-10.8	68
IC-VGW-1	11/8/17 11:54	3.6	16.1	0	80.3	50	50	-1	-1	6.454	6.6	5	5	29.6	-9.6	50
IC-VGW-1	11/9/17 8:56	4.6	16	0	79.4	46	46	-1.7	-1.8	6.542	8.2	5	5	29.5	-9.1	48
IC-VGW-1	12/15/17 7:59	4.8	16.4	0	78.8	40	40	-2.4	-2.4	15.797	15.9	8	8	30	-16.5	44
IC-VGW-2	2/1/17 8:18	52.9	15.1	0	32	33	33	-0.2	-0.2	4.314	4.7	2	2	30	-6.6	37
IC-VGW-2	3/24/17 9:32	51.9	11.6	0	36.5	48	48	-0.3	-0.3	4.23	4.1	2	1	29.4	-6.2	50

Table 8. Landfill Gas Monitoring Data
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Coupeville Solid Waste Facility, Island County, Washington

Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-VGW-2	5/4/17 10:54	54.2	11.8	0	34	68	67	-0.1	-0.1	2.813	2.8	1	1	29.7	-4.5	48
IC-VGW-2	5/4/17 12:38	52.5	13.8	0	33.7	72	71	0	0		4.2	1	1	29.7	-3.9	48
IC-VGW-2	6/14/17 11:58	56.8	11.7	0	31.5	67	67	-0.4	-0.4	3.701	4	1	1	29.8	-4.1	54
IC-VGW-2	8/2/17 9:48	57.3	10.4	0	32.3	73	73	0	0	3.818	3.9	1	1	29.8	-3.6	54
IC-VGW-2	9/27/17 14:18	56.2	11.1	0	32.7	72	72	0	0	4.709	4.8	2	2	29.8	-4.4	52
IC-VGW-2	11/8/17 12:00	54	11.9	0	34.1	51	51	0	0	6.071	6.4	2	2	29.6	-6	50
IC-VGW-2	12/15/17 8:01	52	12.5	0	35.5	38	38	-0.5	-0.5	7.865	7.5	2	2	30	-7.3	44
IC-VGW-3	2/1/17 8:41	49.6	19.5	0	30.9	36	36	-0.2	-0.2	5.206	5.4	2	2	30	-6.8	37
IC-VGW-3	3/24/17 9:38	45	16.8	0	38.2	47	47	-0.1	-0.1	4.632	4.7	2	2	29.4	-6.2	50
IC-VGW-3	5/4/17 11:03	41.7	15.7	0	42.6	72	72	0	0	3.42	3.4	1	1	29.7	-4.6	48
IC-VGW-3	6/14/17 12:13	48.4	16.4	0	35.2	66	66	-0.2	-0.2	2.915	2.9	1	1	29.8	-4.2	54
IC-VGW-3	8/2/17 10:00	49.4	15.2	0	35.4	83	83	0.1	0.1	2.805	2.8	1	1	29.8	-3.7	54
IC-VGW-3	9/27/17 14:26	46.1	16.1	0	37.8	79	78	0.1	0.1	3.444	3.3	1	1	29.8	-4.4	52
IC-VGW-3	9/28/17 8:22	44.8	15.4	0	39.8	69	70	0	0	3.311	4.6	1	1	29.7	-4.3	68
IC-VGW-3	11/8/17 12:08	43.2	17.9	0	38.9	52	52	0.1	0.1	6.675	6.1	2	2	29.6	-6.1	50
IC-VGW-3	12/15/17 8:16	45.5	19.5	0	35	38	38	-0.3	-0.3	8.048	7.7	2	2	30	-7.6	44
IC-VGW-4	2/1/17 8:54	40.3	15.1	0	44.6	37	36	-0.3	-0.3	4.947	4.8	2	2	30	-8	37
IC-VGW-4	3/24/17 9:46	45	9.8	0	45.2	48	47	-0.1	-0.2	3.625	3.4	1	1	29.4	-6.3	50
IC-VGW-4	5/4/17 11:11	46.2	9.1	0	44.7	71	70	0	0	2.685	2.6	1	1	29.7	-4.7	48
IC-VGW-4	6/14/17 12:26	48.1	7.7	0	44.2	67	67	-0.2	-0.2	2.471	2.5	1	1	29.8	-4.3	54
IC-VGW-4	8/2/17 10:17	49.7	7.3	0	43	81	81	0	0	1.983	2	1	1	29.8	-3.9	54
IC-VGW-4	9/27/17 14:35	46.7	8.3	0	45	79	79	0.1	0.1	2.858	2.7	1	1	29.8	-4.6	52
IC-VGW-4	11/8/17 12:19	44.3	9.1	0	46.6	52	52	0	0	3.638	3.5	1	1	29.6	-6.5	50
IC-VGW-4	11/9/17 9:06	45.9	9.8	0	44.3	45	45	-0.3	-0.3	3.599	5.7	1	2	29.5	-5.8	48
IC-VGW-4	12/15/17 8:30	48.2	9.8	0	42	37	37	-0.5	-0.5	7.5	7.7	2	2	30	-7.8	44
IC-VGW-5	2/1/17 9:00	1.3	15	0	83.7	35	35	-0.3	-0.3	10.641	10.6	2	2	30	-15.5	37
IC-VGW-5	3/24/17 9:51	2.3	16.6	0	81.1	47	47	-0.3	-0.2	12.166	12.2	3	3	29.4	-18.3	50
IC-VGW-5	5/4/17 11:22	3.9	15.8	0	80.3	66	64	-0.1	-0.1	10.416	10.4	2	2	29.7	-18.6	48
IC-VGW-5	6/14/17 12:32	3.6	16.3	0	80.1	67	67	-0.5	-0.5	10.484	10.4	2	2	29.8	-18.8	54
IC-VGW-5	8/2/17 10:32	4.1	15.7	0	80.2	87	86	-0.2	-0.2	10.154	10.2	2	2	29.8	-18.8	54
IC-VGW-5	9/27/17 14:42	4	16	0	80	80	80	0.1	0.1	7.994	8	2	2	29.8	-13.9	52
IC-VGW-5	9/28/17 8:26	3.7	15.9	0	80.4	69	69	0	-0.1	5.973	10.3	2	2	29.7	-9.7	68
IC-VGW-5	11/8/17 12:26	3.4	16.8	0	79.8	50	50	0.1	0	10.338	10.4	2	2	29.6	-9.7	50
IC-VGW-5	12/15/17 8:35	4.4	17.4	0	78.2	38	38	-0.7	-0.7	17.002	16.9	3	3	30	-16.5	44
IC-VGW-6	2/1/17 9:07	35.4	14.4	0	50.2	38	38	0	0	1.681	1.8	1	1	30	-8.2	37
IC-VGW-6	3/24/17 9:55	31.2	15.7	0	53.1	47	47	0	0	0.691	0.7	0	0	29.4	-6.4	50
IC-VGW-6	5/4/17 11:26	37	14.7	0	48.3	71	71	0	0	0.703	0.7	0	0	29.7	-4.7	48
IC-VGW-6	6/14/17 12:36	36.3	14.6	0	49.1	68	69	-0.2	-0.2	1.168	1.2	0	0	29.8	-4.4	54
IC-VGW-6	8/2/17 10:35	34.6	13.9	0	51.5	81	81	0.1	0.1	0.971	1	0	0	29.8	-4	54
IC-VGW-6	9/27/17 14:47	33.3	14.7	0	52	82	84	0.2	0.2	1.021	1.3	0	1	29.8	-4.7	52
IC-VGW-6	11/8/17 12:31	31	16.1	0	52.9	51	51	0.1	0.1	1.861	1.9	1	1	29.6	-6.4	50
IC-VGW-6	12/15/17 8:40	31.8	16.4	0	51.8	37	37	-0.3	-0.3	2.169	2.1	1	1	30	-8.2	44
IC-VGW-7	2/1/17 9:15	0.5	7.2	18.1	74.2	41	41	0	0	-0.001	0			30	-15.6	37
IC-VGW-7	3/24/17 9:59	1.7	19.4	0	78.9	47	47	0	0	-0.006	0			29.5	-12.7	50
IC-VGW-7	5/4/17 11:35	1.3	17.3	0	81.4	68	68	0	0	-0.004	0			29.7	-12.4	48
IC-VGW-7	6/14/17 12:46	1.2	17.8	0	81	66	67	0	0	-0.002	0			29.8	-12.9	54
IC-VGW-7	8/2/17 10:49	1	15.4	2	81.6	83	83	0	0	-0.001	0			29.8	-12.8	54
IC-VGW-7	8/3/17 12:38	1.2	12.8	3.6	82.4	88	88	0	-0.6	-0.002	7.3		2	29.7	-13.7	68
IC-VGW-7	9/27/17 14:52	1.2	18	0	80.8	81	80	-1.4	-1.2	6.967	6.8	2	2	29.9	-13.8	52
IC-VGW-7	11/8/17 12:37	0.6	19.3	0	80.1	54	54	-2.6	-2.6	3.806	3.8	1	1	29.6	-9.7	50
IC-VGW-7	12/15/17 8:46	1.9	19.3	0	78.8	39	39	-4.8	-4.5	7.341	8	2	2	30	-16.8	44
IC-VGW-8	2/1/17 9:13	17.2	13.3	3.5	66	42	40	0	0	0	0			30	-4.1	37
IC-VGW-8	3/24/17 9:57	15.5	13.9	3.4	67.2	47	47	0	0	-0.002	0			29.5	-5.3	50
IC-VGW-8	5/4/17 11:29	15.1	14.3	4.1	66.5	70	69	0	0	-0.086	-0.1			29.7	-3.9	48
IC-VGW-8	6/14/17 12:42	14.7	19.6	3.3	62.4	67	67	0	0	-0.007	0			29.8	-4	54
IC-VGW-8	8/2/17 10:47	13.5	20	2.7	63.8	84	84	0	0	-0.001	0			29.8	-3.4	54

Table 8. Landfill Gas Monitoring Data
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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Adj Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	InitDiffPress	AdjDiffPress	Init Flow (scfm)	AdjFlow	BaroPress	SystemPressure	AmbientTemp
IC-VGW-8	9/27/17 14:50	13.2	20.1	2.3	64.4	83	83	0	0	-0.062	-0.1			29.9	-3.7	52
IC-VGW-8	11/8/17 12:35	12.1	21.3	3	63.6	54	54	0	0	0	0			29.6	-4.8	50
IC-VGW-8	12/15/17 8:45	12.6	21.5	3.5	62.4	38	38	0	0	-0.001	0			30	-6.7	44
IC-VGW-9	2/1/17 9:20	0	4.2	10.5	85.3	37	36	-0.1	-0.1	0.924	0.9	0	0	30	-15.6	37
IC-VGW-9	3/24/17 10:04	0	7.4	8.8	83.8	48	48	-0.1	-0.1	1.72	1.7	1	1	29.5	-18.5	50
IC-VGW-9	5/4/17 11:42	0.2	7.2	8.6	84	70	70	0	0	1.611	1.7	1	1	29.7	-18.7	48
IC-VGW-9	6/14/17 12:52	0	7.7	8.5	83.8	68	68	-0.2	-0.2	1.518	1.5	1	1	29.8	-18.8	54
IC-VGW-9	8/2/17 10:58	0	7	7.5	85.5	79	79	-0.1	-0.1	1.23	1.3	0	0	29.8	-19.3	54
IC-VGW-9	9/27/17 15:25	0	7.1	7.9	85	81	81	0	0	-0.091	-0.1			29.9	-12.8	52
IC-VGW-9	9/28/17 8:03	0	7.7	8	84.3	60	60	0	-0.1	0	9		2	29.7	-13.4	68
IC-VGW-9	11/8/17 12:41	0	8.8	7.4	83.8	51	51	0	0	5.81	5.7	2	2	29.6	-9.6	50
IC-VGW-9	11/9/17 9:10	0.5	8.8	7	83.7	45	45	-0.3	-0.4	5.331	8.5	2	2	29.5	-8.4	48
IC-VGW-9	12/15/17 8:51	0.5	10.5	6.2	82.8	36	36	-0.8	-0.8	16.859	17	3	3	30	-16.8	44

Table 9. Source Control Operations Data
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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
10/25/2005			1	6	
11/2/2005			102	763	
11/15/2005			150	1,122	
11/22/2005	43,010	49,194	150	1,122	
11/29/2005	43,069	49,267	217	1,623	
12/5/2005	43,069	49,267	217	1,623	
12/13/2005	43,147	49,434	217	1,623	
12/20/2005	43,190	49,519	229	1,713	
12/27/2005	43,217	49,603	317	2,371	
1/3/2006	43,259	49,688	420	3,142	
1/10/2006	43,295	49,722	584	4,368	
1/17/2006	43,325	49,816	699	5,229	
1/24/2006	43,384	49,940	768	5,745	
1/31/2006	43,431	50,036	884	6,612	
2/7/2006	43,465	50,990	997	7,458	
2/14/2006	43,506	50,184	1,020	7,630	
2/21/2006	43,539	50,268	1,037	7,757	pump failure
2/28/2006	43,587	50,351	1,113	8,325	
3/7/2006	43,628	50,435	1,121	8,385	
3/14/2006	43,670	50,519	1,147	8,580	
3/21/2006	43,710	50,603	1,169	8,744	
3/28/2006	43,752	50,687	1,185	8,864	
4/4/2006	43,782	50,768	1,224	9,156	
4/11/2006	43,845	50,854	1,288	9,634	
4/18/2006	43,881	50,938	1,415	10,584	
4/25/2006	43,924	51,021	1,441	10,779	
5/2/2006	43,977	51,106	1,459	10,913	
5/9/2006	44,018	51,190	1,465	10,958	
5/16/2006	44,057	51,274	1,466	10,966	
5/23/2006	44,118	51,357	1,468	10,981	
5/30/2006	44,166	51,442	1,485	11,104	
6/6/2006	44,214	51,526	1,501	11,227	
6/13/2006	44,257	51,610	1,506	11,265	
6/20/2006	44,309	51,693	1,508	11,280	
6/27/2006	44,350	51,778	1,508	11,280	
7/4/2006	44,375	51,862	1,508	11,280	
7/11/2006	44,400	51,944	1,508	11,280	
7/18/2006	44,511	52,026	1,510	11,295	
7/25/2006	44,577	52,113	1,510	11,295	
8/1/2006	44,637	52,193	1,510	11,295	
8/8/2006	44,700	52,278	1,511	11,302	
8/15/2006	44,763	52,362	1,511	11,302	
8/22/2006	44,817	52,439	1,511	11,302	
8/29/2006	44,872	52,517	1,511	11,302	
9/5/2006	44,943	52,614	1,511	11,302	
9/13/2006	45,014	52,710	1,511	11,302	
9/18/2006	45,068	52,782	1,518	11,355	
9/26/2006	45,131	52,866	1,528	11,429	
10/3/2006	45,195	52,952	1,529	11,437	
10/10/2006	45,259	53,036	1,531	11,452	3ft condensate
10/17/2006	45,324	53,122	1,549	11,587	
10/31/2006	45,447	53,288	1,647	12,320	
11/7/2006	45,500	53,371	1,805	13,501	
11/14/2006	45,563	53,455	2,209	16,523	
11/21/2006	45,618	53,528	2,326	17,398	
11/28/2006	45,680	53,612	2,528	18,909	
12/5/2006	45,746	53,700	2,715	20,308	4ft condensate
12/12/2006	45,802	53,776	2,764	20,675	
12/19/2006	45,854	53,844	2,888	21,602	
12/26/2006	45,921	53,933	3,027	22,642	
1/1/2007	45,966	54,000	3,150	23,562	
1/2/2007	45,982	54,016	3,180	23,786	

Table 9. Source Control Operations Data
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Coupeville Solid Waste Facility, Island County, Washington

Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
1/9/2007	46,039	54,094	3,415	25,544	
1/16/2007	46,096	54,176	3,487	26,083	
1/23/2007	46,156	54,257	3,566	26,674	
1/30/2007	46,223	54,346	3,604	26,958	
2/7/2007	46,290	54,437	3,627	27,130	
2/13/2007	46,344	54,509	3,647	27,280	
2/20/2007	46,397	54,593	3,682	27,541	
2/27/2007	46,460	54,676	3,743	27,998	
3/6/2007	46,525	54,763	3,788	28,334	
3/13/2007	46,580	54,841	3,822	28,589	
3/20/2007	46,643	54,926	3,856	28,843	
3/27/2007	46,707	55,011	3,961	29,628	
4/3/2007	46,762	55,096	4,000	29,920	
4/10/2007	46,813	55,178	4,023	30,092	
4/17/2007	46,876	55,262	4,038	30,204	
4/24/2007	46,938	55,345	4,055	30,331	
5/1/2007	47,001	55,429	4,064	30,399	
5/8/2007	47,064	55,514	4,068	30,429	
5/15/2007	47,127	55,597	4,068	30,429	
5/22/2007	47,190	55,683	4,070	30,444	
5/29/2007	47,253	55,766	4,071	30,451	
6/5/2007	47,377	55,850	4,071	30,451	
6/12/2007	47,440	55,932	4,072	30,459	
6/19/2007	47,440	56,102	4,072	30,459	
6/26/2007	47,495	56,185	4,073	30,465	
7/3/2007	47,588	56,185	4,073	30,469	
7/10/2007	47,620	56,269	4,074	30,470	
7/17/2007	47,684	56,354	4,075	30,478	
7/24/2007					
7/31/2007	47,811	56,524	4,075	30,482	
8/7/2007	47,873	56,606	4,075	30,482	
8/14/2007	47,946	56,703	4,075	30,482	
8/21/2007	47,998	56,773	4,075	30,482	
8/28/2007	48,061	56,858	4,075	30,482	
9/4/2007	48,126	56,944	4,075	30,482	Impeller Stuck
9/11/2007	48,186	57,025	4,075	30,483	
9/18/2007	48,249	57,109	4,077	30,494	
9/24/2007	48,311	57,193	4,083	30,539	
10/2/2007	48,372	57,278	4,098	30,656	
10/9/2007	48,434	57,360			
10/24/2007	48,566	57,541	4,144	30,999	
10/30/2007	48,614	57,613	4,168	31,178	
11/7/2007	48,676	57,698	4,178	31,252	
11/13/2007	48,739	57,782	4,240	31,718	
11/21/2007	48,812	57,879	4,324	32,344	
11/27/2007	48,864	57,949	4,344	32,493	
12/4/2007	48,927	58,033	4,415	33,024	
12/11/2007	48,995	58,124	4,453	33,307	
12/18/2007	49,052	58,202	4,501	33,666	
12/24/2007	49,110	58,358	4,583	34,281	
12/31/2007	49,169	58,359	4,682	35,021	
1/8/2008	49,243	58,510	4,789	35,822	
1/15/2008	49,303	58,544	4,889	36,570	
1/22/2008	49,359	58,622	4,961	37,108	
1/29/2008	49,408	58,705	4,993	37,348	
1/30/2008	49,425	58,726			8.75ft condensate
2/5/2008	49,469	58,790	5,043	37,722	
2/13/2008	49,541	58,886	5,205	38,933	
2/19/2008	49,595	58,958	5,243	39,218	
2/25/2008	49,657	59,041	5,263	39,367	
3/4/2008	49,720	59,126	5,278	39,479	
3/11/2008	49,781	59,208	5,290	39,569	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
3/18/2008	49,844	59,292	5,345	39,981	
3/25/2008	49,907	59,376	5,400	40,392	
4/1/2008	49,970	59,461	5,483	41,013	
4/8/2008	50,035	59,547	5,537	41,417	
4/15/2008	50,096	59,629	5,572	41,679	
4/22/2008	50,158	59,712	5,605	41,925	
4/23/2008	50,173	59,730			7.70ft condensate
4/29/2008	50,221	59,796	5,633	42,135	
5/6/2008	50,280	59,879	5,672	42,427	
5/13/2008	50,344	59,965	5,685	42,524	
5/20/2008	50,407	60,048	5,726	42,830	
5/27/2008	50,470	60,133	5,747	42,988	
6/3/2008	50,529	60,217	5,757	43,062	
6/10/2008	50,591	60,301	5,804	43,414	
6/17/2008	50,654	60,385	5,854	43,788	
6/24/2008	50,717	60,469	5,868	43,893	
7/1/2008	50,780	60,553	5,872	43,923	
7/8/2008	50,840	60,639	5,874	43,938	
7/15/2008	50,895	60,716	5,875	43,945	
7/23/2008	50,964	60,809	5,875	43,945	
7/29/2008	51,021	60,883	5,876	43,952	
8/5/2008	51,084	60,968	5,877	43,960	
8/12/2008	51,140	61,049	5,877	43,960	
8/19/2008	51,201	61,134	5,878	43,967	
8/27/2008	51,275	61,232	5,890	44,057	
9/2/2008	51,326	61,301	5,891	44,065	
9/9/2008	51,389	61,385	5,892	44,072	
9/16/2008	51,450	61,469	5,892	44,072	
9/23/2008	51,506	61,553	5,895	44,095	
9/29/2008	51,568	61,637	5,897	44,110	
10/8/2008	51,640	61,733	5,899	44,125	
10/14/2008	51,694	61,805	5,900	44,132	
10/21/2008	51,757	61,892	5,906	44,177	
10/28/2008	51,820	61,973	5,907	44,184	
11/4/2008	51,884	62,059	5,946	44,476	
11/11/2008	51,945	62,141	6,221	46,533	
11/18/2008	52,001	62,227	6,378	47,707	
11/25/2008	52,062	62,309	6,406	47,917	
12/2/2008					
12/9/2008	52,179	62,478	6,510	48,695	
12/16/2008	52,235	62,563	6,603	49,390	
12/23/2008	52,252	62,648	6,643	49,690	
12/30/2008	52,302	62,730	6,891	51,545	
12/31/2008	52,316	62,748	6,970	52,136	
1/13/2009	52,431	62,902	7,251	54,237	
1/21/2009	52,480	62,995	7,312	54,694	
1/27/2009	52,523	63,068	7,330	54,828	
2/4/2009	52,593	63,162	7,345	54,941	
2/10/2009	52,657	63,243	7,371	55,135	
2/17/2009	52,713	63,323	7,387	55,255	
2/24/2009	52,769	63,402	7,406	55,397	
3/3/2009	52,829	63,487	7,470	55,876	
3/10/2009	52,891	63,569	7,524	56,280	
3/17/2009	52,957	63,657	7,567	56,601	
3/23/2009	53,015	63,737	7,593	56,796	
3/31/2009	53,078	63,822	7,664	57,327	
4/7/2009	53,141	63,906	7,837	58,621	
4/14/2009	53,208	63,989	7,866	58,838	
4/21/2009	53,223	64,074	7,881	58,950	
4/28/2009	53,318	64,158	7,888	59,002	
5/5/2009	53,380	64,244	7,991	59,773	
5/12/2009	53,440	64,325	7,934	59,346	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
5/18/2009	53,499	64,325			
5/19/2009	53,502	64,408	7,975	59,653	
5/26/2009	53,563	64,490	8,006	59,885	
6/3/2009	53,635	64,586	8,006	59,885	
6/11/2009	53,689	64,659	8,007	59,892	
6/16/2009	53,754	64,744	8,007	59,892	
6/23/2009	53,814	64,826	8,008	59,900	
6/25/2009	53,037	64,854			
6/30/2009	53,879	64,913	8,008	59,900	
7/7/2009	54,002	65,080	8,008	59,900	
7/14/2009	53,937	64,994	8,008	59,900	
7/16/2009	54,023	65,107			
7/21/2009	54,063	65,162	8,008	59,900	
7/28/2009	54,126	65,246	8,010	59,915	
8/4/2009	54,189	65,330	8,010	59,915	
8/11/2009	54,254	65,416	8,011	59,922	
8/18/2009	54,314	65,497	8,012	59,930	
8/25/2009	54,377	65,582	8,012	59,930	
9/1/2009	54,440	65,666	8,012	59,930	
9/8/2009	54,503	65,750	8,014	59,945	
9/15/2009	54,565	65,833	8,014	59,945	
9/22/2009	56,429	65,918	8,020	59,990	
9/29/2009	54,690	66,002	8,023	60,012	
10/6/2009	54,753	66,085	8,033	60,087	
10/13/2009	54,816	66,170	8,034	60,094	
10/20/2009	54,880	66,254	8,140	60,887	
10/27/2009	54,943	66,339	8,238	61,620	
11/3/2009	55,008	66,425	8,452	63,221	
11/10/2009	55,069	66,507	8,524	63,760	
11/17/2009	55,131	66,591	8,581	64,186	
11/24/2009	55,192	66,673	8,834	66,078	
12/1/2009	55,256	66,759	9,002	67,335	
12/8/2009					
12/15/2009	55,372	66,927	9,059	67,761	
12/22/2009	55,432	67,010	9,206	68,861	
12/29/2009	55,487	67,095	9,286	69,459	
1/5/2010	55,549	67,178	9,383	70,185	
1/12/2010	55,616	67,266	9,528	71,269	
1/19/2010	55,676	67,348	9,651	72,189	
1/26/2010	55,739	67,432	9,712	72,646	
2/2/2010	55,800	67,515	9,765	73,042	
2/9/2010	55,849	67,601	9,811	73,386	
2/16/2010	55,909	67,683	9,909	74,119	
2/23/2010	55,963	67,767	9,962	74,516	
3/2/2010	56,008	67,851	9,991	74,730	
3/9/2010	50,071	67,935	10,006	74,848	
3/16/2010	56,012	68,018	10,044	75,129	
3/23/2010	56,182	68,101	10,067	75,303	
3/30/2010	56,243	68,188	10,096	75,518	
4/7/2010	56,316	68,287	10,156	75,967	
4/14/2010	56,391	68,364	10,222	76,461	
4/21/2010	56,459	68,440	10,240	76,595	
4/27/2010	56,575	68,522	10,283	76,917	
5/4/2010	56,649	68,606	10,335	77,306	
5/11/2010	56,730	68,689	10,356	77,463	
5/18/2010	56,874	68,776	10,367	77,545	
5/25/2010	56,914	68,826	10,379	77,635	
6/1/2010	56,969	68,909	10,625	79,475	
6/8/2010	57,035	68,997	10,748	80,395	
6/15/2010	57,073	69,078	10,813	80,881	
6/22/2010	57,115	69,162	10,829	81,001	
6/28/2010	57,156	69,246	10,833	81,031	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
7/6/2010	57,197	69,331	10,836	81,053	
7/13/2010	57,235	69,323	10,837	81,061	
7/20/2010	57,279	69,497	10,837	81,061	
7/27/2010	57,320	69,581	10,837	81,061	
8/3/2010	57,362	69,665	10,837	81,063	
8/11/2010	57,410	69,761	10,841	81,088	
8/17/2010	57,441	69,835	10,841	81,089	
8/25/2010	57,493	69,940	10,841	81,089	
8/31/2010	57,520	70,001	10,844	81,113	
9/7/2010	57,562	70,085	10,867	81,285	
9/15/2010	57,610	70,185	10,873	81,330	
9/21/2010	57,643	70,253	10,933	81,779	
9/28/2010	57,684	70,336	10,988	82,190	
10/5/2010	57,720	70,422	11,014	82,385	
10/12/2010	57,759	70,506	11,043	82,602	
10/19/2010	57,798	70,588	11,057	82,706	
10/26/2010	57,836	70,673	11,067	82,781	
11/2/2010	57,878	70,757	11,083	82,897	
11/9/2010	57,920	70,845	11,116	83,148	
11/16/2010					
12/8/2010	58,059	71,178	11,581	86,626	
12/14/2010	58,094	71,249	11,877	88,840	
1/4/2011	58,192	71,500	12,107	90,558	
1/11/2011	58,228	71,585	12,419	92,894	
1/18/2011	58,271	71,670	12,832	95,983	
1/25/2011	58,311	71,756	12,927	96,694	
2/1/2011	58,350	71,837	12,928	96,698	
2/8/2011	58,386	71,920	12,928	96,698	
2/15/2011	58,419	72,004	12,928	96,698	
2/22/2011	58,457	72,091	12,928	96,698	
3/1/2011	58,487	72,173	12,995	97,200	
3/8/2011	58,525	72,259	13,090	97,911	
3/15/2011	58,555	72,340	13,172	98,523	
3/22/2011	58,593	72,422	13,172	98,523	
3/29/2011	58,632	72,508	13,295	99,443	
4/5/2011	58,690	72,593	13,355	99,894	
4/12/2011	58,730	72,674	13,371	100,018	
4/19/2011	58,772	72,760	13,371	100,018	
4/26/2011	58,814	72,844	13,371	100,018	
5/3/2011	58,855	72,926	13,400	100,232	
5/10/2011	58,898	73,012	13,492	100,916	
5/17/2011	58,939	73,096	13,704	102,507	
5/24/2011	58,978	73,180	13,750	102,850	
5/31/2011	58,021	73,265	13,774	103,030	
6/7/2011	59,061	73,346	13,780	103,074	
6/15/2011	59,111	73,446	13,781	103,082	
6/22/2011	59,145	73,516	13,783	103,098	
6/28/2011	59,186	73,591	13,784	103,104	
7/5/2011	59,228	73,683	13,784	103,104	
7/12/2011	59,262	73,767	13,784	103,107	
7/19/2011	59,276	73,851	13,787	103,127	
7/26/2011	59,282	73,934	13,791	103,153	
8/2/2011	59,288	74,019	13,791	103,153	
8/9/2011	59,328	74,103	13,791	103,153	
8/16/2011	59,368	74,184	13,791	103,154	
8/23/2011	59,407	74,267	13,792	103,164	
8/31/2011	59,474	74,365	13,792	103,164	
9/5/2011	59,528	74,436	13,792	103,164	
9/13/2011	59,571	74,520	13,791	103,157	
9/22/2011	59,680	74,631	13,792	103,165	
9/27/2011	59,743	74,688	13,793	103,172	
10/4/2011	59,818	74,772	13,795	103,187	

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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
10/11/2011	59,898	74,855	13,796	103,190	
10/18/2011	59,957	74,940	13,796	103,192	
10/25/2011	60,016	75,023	13,798	103,212	
11/1/2011	60,127	75,108	13,798	103,212	
11/8/2011	60,256	75,193	13,798	103,212	
11/16/2011	60,347	75,290	13,798	103,212	
11/22/2011	60,382	75,361	13,875	103,785	
12/6/2011	60,460	75,532	14,368	107,473	
12/13/2011	60,497	75,614	14,408	107,770	
12/20/2011	60,538	75,699	14,445	108,046	
12/27/2011	60,562	75,787	14,481	108,318	
1/3/2012	60,599	75,865	14,569	108,976	
1/10/2012	60,659	75,949	14,649	109,572	
1/17/2012			14,705	109,993	
1/24/2012	30,740	76,117	15,056	112,619	
1/31/2012	60,781	76,201	15,180	113,546	
2/7/2012	60,823	76,286	15,273	114,242	
2/14/2012	60,868	76,373	15,405	115,229	
2/21/2012	60,906	76,453	15,658	117,123	
2/28/2012	60,951	76,541	16,987	127,063	
3/6/2012	60,990	76,621	16,193	121,121	
3/13/2012	61,032	76,706	16,499	123,410	
3/20/2012	61,073	76,789	16,720	125,062	
3/27/2012	61,115	76,873	16,882	126,280	
4/3/2012	61,157	76,957	16,994	127,111	
4/10/2012	61,234	77,040	17,174	128,458	
4/17/2012	61,295	77,124	17,248	129,014	
4/24/2012	61,338	77,209	17,418	130,287	
5/1/2012	61,380	77,293	17,652	132,037	
5/8/2012	61,439	77,376	18,090	135,313	
5/15/2012	61,534	77,462	18,137	135,665	
5/22/2012	61,611	77,545	18,159	135,829	
5/29/2012	61,672	77,628	18,191	136,069	
6/5/2012	61,714	77,712	18,214	136,241	
6/12/2012	61,756	77,796	18,229	136,353	
6/19/2012	61,823	77,880	18,240	136,435	
6/26/2012	61,864	77,964	18,360	137,333	
7/3/2012	61,907	78,046	18,409	137,699	
7/10/2012	61,948	78,133	18,441	137,939	
7/18/2012	61,996	78,229	18,471	138,166	
7/24/2012	62,031	78,300	18,507	138,435	
7/31/2012	62,073	78,385	18,523	138,551	
8/7/2012	62,117	78,471	18,527	138,579	
8/14/2012	62,157	78,553	18,527	138,583	
8/21/2012	62,201	78,640	18,527	138,583	
8/28/2012	62,240	78,720	18,527	138,583	
9/4/2012	62,284	78,807	18,528	138,589	
9/11/2012	62,330	78,899	18,529	138,597	
9/18/2012	62,366	78,973	18,529	138,598	
9/25/2012	62,407	79,056	18,529	138,598	
10/2/2012	62,449	79,139	18,529	138,598	
10/9/2012	62,491	79,225	18,529	138,598	
10/16/2012	62,534	79,310	18,544	138,709	
10/22/2012	62,575	79,393	18,576	138,948	
11/13/2012	62,703	79,649	18,837	140,901	
11/20/2012	62,742	79,728	19,150	143,242	
11/27/2012	62,781	79,814	19,402	145,127	
12/4/2012	62,825	79,895	19,554	146,264	
12/11/2012	62,866	79,979	19,800	148,104	
12/18/2012	62,908	80,064	20,061	150,056	
12/26/2012	62,956	80,160	20,061	150,056	
1/2/2013	62,998	80,244	20,230	151,320	
1/8/2013	63,033	80,318	20,282	151,709	

Table 9. Source Control Operations Data
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
1/15/2013	63,065	80,394	20,337	152,121	
1/22/2013	63,104	80,478	20,337	152,121	
1/29/2013	63,148	80,564	20,337	152,121	
2/5/2013	63,184	80,646	20,337	152,121	
2/12/2013	63,231	80,736	20,337	152,121	
2/19/2013	63,268	80,815	20,337	152,121	
2/26/2013	63,309	80,897	20,337	152,121	
3/5/2013	63,347	80,976	20,337	152,121	
3/12/2013	63,389	81,059	20,337	152,121	
3/19/2013	63,431	81,143	20,337	152,121	
3/26/2013	63,473	81,228	20,337	152,121	
4/2/2013	63,511	81,311	20,351	152,225	
4/9/2013	63,556	81,395	20,422	152,757	
4/16/2013	63,594	81,479	20,483	153,213	
4/23/2013	63,633	81,569	20,538	153,624	
4/30/2013	63,666	81,647	20,557	153,766	
5/7/2013	63,705	81,731	20,569	153,856	
5/14/2013	63,744	81,815	20,578	153,923	
5/21/2013	63,784	81,898	20,601	154,095	
5/28/2013	63,818	81,980	20,624	154,268	
6/4/2013	63,861	82,067	20,665	154,574	
6/11/2013	63,901	82,149	20,674	154,642	
6/18/2013	63,942	82,233	20,678	154,671	
6/25/2013	63,987	82,320	20,687	154,739	
7/2/2013	64,028	82,405	20,695	154,799	
7/9/2013	64,067	82,485	20,695	154,799	
7/16/2013	64,125	82,569	20,695	154,799	
7/23/2013	64,182	82,653	20,685	154,724	
7/30/2013	64,225	82,738	20,695	154,799	
8/6/2013	64,268	82,823	20,699	154,829	
8/13/2013	64,309	82,907	20,699	154,829	
8/20/2013	64,349	82,989	20,703	154,858	
8/27/2013	64,393	83,077	20,703	154,858	
9/4/2013	64,470	83,159	20,771	155,367	
9/10/2013	64,509	83,241	20,749	155,203	
9/17/2013	64,553	83,327	20,765	155,322	
9/24/2013	64,593	83,409	20,786	155,479	
10/1/2013	64,636	83,495	20,901	156,339	
10/8/2013	64,677	83,578	20,954	156,736	
10/15/2013	64,717	83,661	20,976	156,900	
10/22/2013	64,762	83,749	20,987	156,983	
10/29/2013	64,819	83,831	20,997	157,058	
11/5/2013	64,860	83,914	21,034	157,334	
11/12/2013	64,890	83,998	21,089	157,746	
11/26/2013	64,970	84,160	21,230	158,800	
12/3/2013	65,012	84,250	21,272	159,115	
12/10/2013	65,051	84,334	21,297	159,302	
12/17/2013	65,096	84,422	21,316	159,444	
12/24/2013	65,141	84,510	21,335	159,586	
12/31/2013	65,243	84,585	21,430	160,296	
1/8/2014	65,289	84,672	21,430	160,296	
1/14/2014	65,328	84,750	21,430	160,296	
1/21/2014	65,368	84,833	21,576	161,388	
1/28/2014	35,048	84,916	21,821	163,221	
2/4/2014	65,449	85,000	21,623	161,740	
2/11/2014	65,478	85,084	21,777	162,892	
2/18/2014	65,515	85,164	21,899	163,807	
2/25/2014	65,555	85,212	22,109	165,375	
3/4/2014	65,598	85,300	22,119	165,450	
3/11/2014	65,640	85,380	22,319	166,946	
3/18/2014	65,663	85,465	22,465	168,038	
3/25/2014	65,693	85,549	22,493	168,248	
4/1/2014	65,718	85,630	22,516	168,420	

Table 9. Source Control Operations Data
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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
4/8/2014	65,742	85,714	22,528	168,509	
4/15/2014	65,769	85,800	22,539	168,592	
4/22/2014	65,787	85,881	22,551	168,681	
4/29/2014	65,803	85,966	22,565	168,786	
5/6/2014	65,826	86,049	22,582	168,913	
5/20/2014	65,880	86,218	22,719	169,938	
6/3/2014	65,974	86,391	22,738	170,080	
6/10/2014	66,012	86,474	22,739	170,088	
6/17/2014	66,052	86,556	22,751	170,177	
6/24/2014	66,092	86,638	22,753	170,192	
7/1/2014	66,133	86,723	22,754	170,200	
7/8/2014	66,174	86,806	22,755	170,207	
7/16/2014	66,224	86,904	22,755	170,207	
7/22/2014	66,257	86,973	22,755	170,207	
7/29/2014	66,299	87,059	22,763	170,267	
8/5/2014	66,340	87,141	22,763	170,267	
8/12/2014	66,382	87,225	22,764	170,275	
8/19/2014	66,464	87,313	22,780	170,394	
8/26/2014	66,507	87,393	22,781	170,402	
9/2/2014	66,591	87,480	22,789	170,462	
9/9/2014	66,547	87,562	22,789	170,462	
9/16/2014	66,591	87,649	22,789	170,462	
9/23/2014	66,630	87,730	22,795	170,507	
9/30/2014	66,669	87,813	22,802	170,560	
10/7/2014	66,713	87,901	22,803	170,566	
10/14/2014	66,749	87,984	22,819	170,686	
10/21/2014	66,789	88,068	22,855	170,955	
10/28/2014	66,830	88,150	22,988	171,950	
11/4/2014	66,892	88,236	23,132	173,027	
11/18/2014	66,974	88,403	23,218	173,671	
11/25/2014	67,016	88,487	23,278	174,119	
12/2/2014	67,016	88,571	23,446	175,376	
12/9/2014	67,093	88,655	23,484	175,660	
12/16/2014	67,129	88,728	23,867	178,525	
12/23/2014	67,206	88,814	23,731	177,508	
12/30/2014	67,247	88,899	23,850	178,398	
1/6/2015	67,291	88,987	23,987	179,423	
1/13/2015	67,329	89,065	24,049	179,889	
1/20/2015	67,370	89,149	24,120	180,418	
1/27/2015	67,485	89,234	24,189	180,934	
2/3/2015	67,517	89,317	24,226	181,210	
2/10/2015	67,557	89,400	24,346	182,108	
2/17/2015	67,598	89,485	24,398	182,497	
2/24/2015	67,637	89,567	24,398	182,497	
3/3/2015	67,667	89,650	24,398	182,497	
3/10/2015	67,717	89,733	24,398	182,497	
3/17/2015	67,758	89,824	24,399	182,505	
3/24/2015	67,790	89,904	24,402	182,527	
3/31/2015	67,825	89,986	24,415	182,624	
4/7/2015	67,861	90,069	24,541	183,567	
4/14/2015	67,897	90,154	25,469	190,508	
4/21/2015	67,936	90,239	24,480	183,110	
4/28/2015	67,975	90,323	24,500	183,260	
5/5/2015	68,014	90,407	24,500	183,260	
5/12/2015	68,054	90,491	24,510	183,335	
5/19/2015	68,095	90,576	24,512	183,350	
5/26/2015	68,134	90,658	24,512	183,350	
6/2/2015	68,170	90,744	24,513	183,357	
6/9/2015	68,209	90,826	24,514	183,365	
6/16/2015	68,250	90,909	24,515	183,372	
6/23/2015	68,377	90,995	24,519	183,402	
6/30/2015	68,450	91,076	24,519	183,402	
7/7/2015	68,513	91,162	24,519	183,402	

Table 9. Source Control Operations Data
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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
7/14/2015	68,268	91,247	24,519	183,402	
7/21/2015	68,589	91,329	24,519	183,402	
7/28/2015	68,666	91,413	24,520	183,410	
8/11/2015	68,831	91,586	24,520	183,410	
8/18/2015	68,893	91,666	24,532	183,499	
8/25/2015	68,941	91,749	24,533	183,507	
9/1/2015	69,033	91,832	24,544	183,589	
9/8/2015	69,074	91,918	24,599	184,001	
9/15/2015	69,145	91,997	24,631	184,240	
9/22/2015	69,199	92,086	24,667	184,509	
9/29/2015	69,283	92,166	24,623	184,180	
10/6/2015	69,344	92,253	24,625	184,195	
10/13/2015	69,395	92,340	24,643	184,330	
10/20/2015	69,395	92,418	24,647	184,360	
10/27/2015	69,466	92,502	24,659	184,449	
11/3/2015	69,533	92,588	24,814	185,609	
11/10/2015	69,553	92,672	24,924	186,432	
11/17/2015	69,621	92,755	25,273	189,042	
11/24/2015	69,674	92,839	25,323	189,416	
12/1/2015	69,694	92,925	25,370	189,768	
12/8/2015	69,759	93,010	25,526	190,934	
12/15/2015	69,809	93,093	25,890	193,657	
12/22/2015	69,835	93,175	26,123	195,400	
12/29/2015	69,871	93,259	26,260	196,425	
12/30/2015	69,882	93,290	26,260	196,425	
1/5/2016	69,879	93,344	26,260	196,425	
1/12/2016	69,925	93,430	26,260	196,425	
1/19/2016	69,957	93,518	26,289	196,642	
1/26/2016	69,957	93,596	26,483	198,093	
2/2/2016	70,020	93,680	26,574	198,774	
2/9/2016	70,085	93,760	26,623	199,140	
2/16/2016	70,114	93,844	26,772	200,255	
2/23/2016	70,155	93,929	26,914	201,317	
3/1/2016	70,178	94,013	26,952	201,601	
3/8/2016	70,221	94,096	27,040	202,259	
3/15/2016	70,278	94,179	27,220	203,606	
3/21/2016	70,312	94,262	27,225	203,643	
3/29/2016	70,363	94,346	27,300	204,204	
4/5/2016	70,407	94,430	27,322	204,369	
4/12/2016	70,408	94,515	27,336	204,473	
4/19/2016	70,496	94,599	27,351	204,585	
4/25/2016	70,533	94,681	27,406	204,997	
5/3/2016	70,607	94,765	27,431	205,184	
5/10/2016	70,657	94,852	27,437	205,229	
5/17/2016	70,699	94,888	27,438	205,236	
5/24/2016	70,702	94,896	27,441	205,259	
5/31/2016	70,702	94,986	27,444	205,281	
6/7/2016	70,710	94,921	27,444	205,281	
6/14/2016	70,728	94,949	27,462	205,416	
6/21/2016	70,741	94,987	27,490	205,625	
6/28/2016	70,754	95,023	27,566	206,194	
7/5/2016	70,754	95,062	27,581	206,306	
7/12/2016	70,759	95,077	27,587	206,351	
7/19/2016	70,761	95,080	27,588	206,358	
7/26/2016	70,773	95,102	27,590	206,373	
8/2/2016	70,775	95,105	27,591	206,381	
8/9/2016	70,775	95,105	27,591	206,381	
8/16/2016	70,775	95,105	27,591	206,381	
8/23/2016	70,775	95,105	27,591	206,381	
8/30/2016	70,775	95,105	27,591	206,381	
9/6/2016	70,775	95,105	27,603	206,470	
9/12/2016	70,775	95,105	27,603	206,470	
9/20/2016	70,775	95,105	27,607	206,500	

Table 9. Source Control Operations Data
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Coupeville Solid Waste Facility, Island County, Washington

Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
9/27/2016	70,775	95,105	27,608	206,508	
10/4/2016	70,775	95,105	27,608	206,508	
10/11/2016	70,775	95,105	27,620	206,598	
10/18/2016	70,775	95,105	27,730	207,420	
11/1/2016	70,775	95,105	27,821	208,101	
11/2/2016	70,775	95,105	27,821	208,101	
11/3/2016	--	--	27,837	208,221	
11/9/2016	70,791	95,133	27,837	208,221	
11/15/2016	70,805	95,168	27,931	208,924	
11/22/2016	70,816	95,213	27,979	209,283	
11/29/2016	70,836	95,253	28,056	209,859	
12/6/2016	70,828	95,294	28,393	212,380	
12/13/2016	70,836	95,339	28,439	212,724	
12/20/2016	70,848	95,379	28,470	212,956	
12/27/2016	70,859	95,422	28,568	213,689	
12/31/2016	70,865	95,440	28,568	213,689	
1/3/2017	70,871	95,463	28,568	213,689	
1/10/2017	70,874	95,506	28,568	213,689	
1/17/2017	70,885	95,547	28,568	213,689	
1/31/2017	70,891	95,583	28,568	213,689	
2/7/2017	70,914	95,672	28,568	213,689	
2/14/2017	70,924	95,710	28,568	213,689	
2/26/2017	70,930	95,756	28,568	213,689	
2/28/2017	70,934	95,794	28,568	213,689	
3/7/2017	70,944	95,836	28,568	213,689	
3/14/2017	70,954	95,878	28,568	213,689	
3/21/2017	70,962	95,924	28,568	213,689	
3/28/2017	70,972	96,036	28,568	213,689	
4/4/2017	70,980	96,201	28,568	213,689	
4/11/2017	70,984	96,371	28,568	213,689	
4/25/2017	71,002	96,708	28,603	213,950	
5/2/2017	71,002	96,874	28,616	214,048	
5/9/2017	71,012	96,984	28,653	214,327	
5/16/2017	71,023	97,001	28,689	214,590	
5/23/2017	71,043	97,037	28,711	214,758	
5/30/2017	71,053	97,085	28,717	214,804	
6/6/2017	71,061	97,127	28,719	214,819	
6/13/2017	71,069	91,163	28,722	214,842	
6/20/2017	71,084	97,211	28,723	214,847	
6/27/2017	71,094	97,247	28,723	214,848	
5/16/2017	71,023	97,001	28,689	214,590	
5/23/2017	71,043	97,037	28,711	214,758	
5/30/2017	71,053	97,085	28,717	214,804	
6/6/2017	71,061	97,127	28,719	214,819	
6/13/2017	71,069	97,163	28,722	214,842	
6/20/2017	71,084	97,211	28,723	214,847	
6/27/2017	71,094	97,247	28,723	214,848	
7/25/2017	71,135	97,421	28,723	214,848	
8/1/2017	71,145	97,463	28,723	214,848	
8/9/2017	71,162	97,505	28,723	214,848	
8/15/2017	71,174	97,541	28,723	214,848	
8/22/2017	71,186	97,589	28,723	214,848	
8/29/2017	71,198	97,627	28,723	214,848	
9/5/2017	71,205	97,667	28,723	214,848	
9/12/2017	71,215	97,709	28,724	214,856	
9/19/2017	71,227	97,751	28,724	214,856	
9/26/2017	71,235	97,797	28,728	214,885	
10/3/2017	71,271	97,841	28,729	214,893	
10/10/2017	71,285	97,885	28,729	214,894	
10/17/2017	71,291	97,923	28,743	214,998	
10/24/2017	71,303	97,969	28,895	216,132	
10/31/2017	71,315	98,012	28,934	216,429	
11/7/2017	71,323	98,053	29,061	217,376	

Table 9. Source Control Operations Data
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Date	LFG Blower (cumulative hrs.)	Soil Gas Blower (cumulative hrs.)	Sump Discharge (cumulative cu. ft.)	Sump Discharge (cumulative gallons)	Comments
11/14/2017	71,338	98,097	29,180	218,264	
11/21/2017	71,350	98,139	29,331	219,394	
11/28/2017	71,358	98,175	29,548	221,021	
12/2/2017	71,368	98,218	29,712	222,244	
12/12/2017	71,376	98,262	29,753	222,554	
12/19/2017	71,387	98,304	29,852	223,291	
12/26/2017	71,395	98,345	30,006	224,448	
Total Hours	**28,385**	**49,151**			
Avg hrs./day	**6.47**	**11.20**			

Table 10. Soil Gas and Landfill Gas Removal Volumes
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		10/25/2005															
		11/2/2005															
		11/15/2005															
		11/22/2005		43,010									49,194				
		11/29/2005		43,069	59	120	424,800	424,800	70	247,800	247,800		49,267	73	94	411,720	411,720
		12/5/2005		43,069									49,267				
		12/13/2005		43,147									49,434				
		12/20/2005		43,190									49,519				
		12/27/2005		43,217	148	120	1,065,600	1,490,400	70	621,600	869,400		49,603	336	94	1,895,040	2,306,760
		1/3/2006		43,259									49,688				
1/13/2006		1/10/2006		43,295									49,722				
		1/17/2006		43,325									49,816				
		1/24/2006		43,384									49,940				
		1/31/2006		43,431	214	120	1,540,800	3,031,200	70	898,800	1,768,200		50,036	433	94	2,442,120	4,748,880
		2/7/2006		43,465									50,099				
		2/14/2006		43,506									50,184				
		2/21/2006		43,539									50,268				
3/1/2006		2/28/2006		43,587	156	87	814,320	3,845,520	53	496,080	2,264,280		50,351	315	85	1,606,500	6,355,380
		3/7/2006		43,628									50,435				
		3/14/2006		43,670									50,519				
		3/21/2006		43,710									50,603				
4/3/2006		3/28/2006		43,752	165	88	871,200	4,716,720	59	584,100	2,848,380		50,687	336	77	1,552,320	7,907,700
		4/4/2006		43,782									50,768				
		4/11/2006		43,845									50,854				
		4/18/2006		43,881									50,938				
		4/25/2006		43,924									51,021				
5/1/2006		5/2/2006		43,977	225	82	1,107,000	5,823,720	46	621,000	3,469,380		51,106	419	81	2,036,340	9,944,040
		5/9/2006		44,018									51,190				
		5/16/2006		44,057									51,274				
		5/23/2006		44,118									51,357				
6/5/2006		5/30/2006		44,166	189	83	941,220	6,764,940	54	612,360	4,081,740		51,442	335.5	65	1,308,450	11,252,490
		6/6/2006		44,214									51,526				
		6/13/2006		44,257									51,610				
		6/20/2006		44,309									51,693				
		6/27/2006		44,350									51,778				
		7/4/2006		44,375									51,862				
7/13/2006		7/11/2006		44,400	234	53	744,120	7,509,060	34	477,360	4,559,100		51,944	502.5	81	2,442,150	13,694,640
		7/18/2006		44,511									52,026				
		7/25/2006		44,577									52,113				
		8/1/2006		44,637									52,193				
		8/8/2006		44,700									52,278				
		8/15/2006		44,763									52,362				
8/18/2006	8/18/2006	8/22/2006	44,795	44,817	417	73	1,826,460	9,335,520	42	1,050,840	5,609,940	52,403	52,439	495	81	2,405,700	16,100,340
		8/29/2006		44,872									52,517				
		9/5/2006		44,943									52,614				
9/14/2006	9/14/2006	9/13/2006	45,028	45,014	197	62	732,840	10,068,360	40	472,800	6,082,740	52,727	52,710	271	87	1,414,620	17,514,960
		9/18/2006		45,068									52,782				
		9/26/2006		45,131									52,866				
		10/3/2006		45,195									52,952				
		10/10/2006		45,259									53,036				
10/19/2006		10/17/2006		45,324	310	63	1,171,800	11,240,160	42	781,200	6,863,940		53,122	412	93	2,298,960	19,813,920
		10/31/2006		45,447									53,288				
		11/7/2006		45,500									53,371				
		11/14/2006		45,563									53,455				
		11/21/2006		45,618									53,528				
		11/28/2006		45,680									53,612				
12/4/2006	12/4/2006	12/5/2006	45,739	45,746	422	75	1,899,000	13,139,160	51	1,291,320	8,155,260	53,689	53,700	578	93	3,225,240	23,039,160
		12/12/2006		45,802									53,776				
		12/19/2006		45,854									53,844				
		12/26/2006		45,921									53,933				
		1/1/2007		45,966									54,000				
		1/2/2007		45,982									54,016				
1/15/2007		1/9/2007		46,039	293	49	861,420	14,000,580	33	580,140	8,735,400		54,094	394	90	2,127,600	25,166,760
		1/16/2007		46,096									54,176				
		1/23/2007		46,156									54,257				
		1/30/2007		46,223									54,346				
		2/7/2007		46,290									54,437				
		2/13/2007		46,344									54,509				
2/23/2007		2/20/2007		46,397	358	86	1,847,280	15,847,860	57	1,224,360	9,959,760		54,593	499	88	2,634,720	27,801,480
		2/27/2007		46,460									54,676				
		3/6/2007		46,525									54,763				
		3/13/2007		46,580									54,841				
3/23/2007		3/20/2007		46,643	246	86	1,269,360	17,117,220	65	959,400	10,919,160		54,926	333	84	1,678,320	29,479,800
		3/27/2007		46,707									55,011				
		4/3/2007		46,762									55,096				
		4/10/2007		46,813									55,178				
		4/17/2007		46,876									55,262				
		4/24/2007		46,938									55,345				
5/1/2007		5/1/2007		47,001	358	58	1,245,840	18,363,060	40	859,200	11,778,360		55,429	503	86	2,595,480	32,075,280
		5/8/2007		47,064									55,514				
5/17/2007		5/15/2007		47,127	126	56	423,360	18,786,420	38	287,280	12,065,640		55,597	168	86	866,880	32,942,160
		5/22/2007		47,190									55,683				
		5/29/2007		47,253									55,766				
		6/5/2007		47,377									55,850				
6/14/2007		6/12/2007		47,440	313	67	1,258,260	20,044,680	44	826,320	12,891,960		55,932	335	84	1,688,400	34,630,560

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Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		6/19/2007		47,440									56,102				
		6/26/2007		47,495									56,185				
		7/3/2007		47,588									56,185				
		7/10/2007		47,620									56,269				
7/19/2007		7/17/2007		47,684									56,354	422	80	2,025,600	36,656,160
		7/24/2007		--									--				
		7/31/2007		47,811									56,524				
8/8/2007		8/7/2007		47,873	433	46	1,195,080	21,239,760	30	779,400	13,671,360		56,606	252	87	1,315,440	37,971,600
		8/14/2007		47,946									56,703				
		8/21/2007		47,998									56,773				
		8/28/2007		48,061									56,858				
9/7/2007		9/4/2007		48,126	253	42	637,560	21,877,320	29	440,220	14,111,580		56,944	338	86	1,744,080	39,715,680
		9/11/2007		48,186									57,025				
		9/18/2007		48,249									57,109				
		9/24/2007		48,311									57,193				
		10/2/2007		48,372									57,278				
		10/9/2007		48,434									57,360				
10/26/2007		10/24/2007		48,566	440	44	1,161,600	23,038,920	30	792,000	14,903,580		57,541	597	94	3,367,080	43,082,760
		10/30/2007		48,614									57,613				
		11/7/2007		48,676									57,698				
		11/13/2007		48,739									57,782				
11/26/2007		11/21/2007		48,812	246	45	664,200	23,703,120	36	531,360	15,434,940		57,879	338	92	1,865,760	44,948,520
		11/27/2007		48,864									57,949				
		12/4/2007		48,927									58,033				
12/12/2007		12/11/2007		48,995	183	85	933,300	24,636,420	71	779,580	16,214,520		58,124	245	91	1,337,700	46,286,220
		12/18/2007		49,052									58,202				
		12/24/2007		49,110									58,358				
		12/31/2007		49,169									58,359				
		1/8/2008		49,243									58,510				
		1/15/2008		49,303									58,544				
		1/22/2008		49,359									58,622				
		1/29/2008		49,408									58,705				
1/30/2008		1/30/2008		49,425	430	47	1,212,600	25,849,020	43	1,109,400	17,323,920		58,726	182	91	993,720	47,279,940
		2/5/2008		49,469									58,790				
		2/13/2008		49,541									58,886				
		2/19/2008		49,595									58,958				
2/27/2008		2/25/2008		49,657	232	59	821,280	26,670,300	35	487,200	17,811,120		59,041	251	91	1,370,460	48,650,400
		3/4/2008		49,720									59,126				
		3/11/2008		49,781									59,208				
3/19/2008		3/18/2008		49,844	187	39	437,580	27,107,880	36	403,920	18,215,040		59,292	251	81	1,219,860	49,870,260
		3/25/2008		49,907									59,376				
		4/1/2008		49,970									59,461				
		4/8/2008		50,035									59,547				
		4/15/2008		50,096									59,629				
4/22/2008		4/22/2008		50,158	314	121	2,279,640	29,387,520	102	1,921,680	20,136,720		59,712	251	162	2,439,720	52,309,980
		4/23/2008		50,173									59,730				
		4/29/2008		50,221									59,796				
		5/6/2008		50,280									59,879				
		5/13/2008		50,344									59,965				
		5/20/2008		50,407									60,048				
5/29/2008		5/27/2008		50,470	312	51	954,720	30,342,240	43	804,960	20,941,680		60,133	254	81	1,234,440	53,544,420
		6/3/2008		50,529									60,217				
		6/10/2008		50,591									60,301				
		6/17/2008		50,654									60,385				
6/30/2008		6/24/2008		50,717	247		0	30,342,240		0	20,941,680		60,469	252		0	53,544,420
		7/1/2008		50,780									60,553				
		7/8/2008		50,840									60,639				
		7/15/2008		50,895									60,716				
7/22/2008		7/23/2008		50,964	247	46	681,720	31,023,960	31	459,420	21,401,100		60,809	256	83	1,274,880	54,819,300
		7/29/2008		51,021									60,883				
		8/5/2008		51,084									60,968				
		8/12/2008		51,140									61,049				
		8/19/2008		51,201									61,134				
8/26/2008		8/27/2008		51,275	311	48	895,680	31,919,640	26	485,160	21,886,260		61,232	264	85	1,346,400	56,165,700
		9/2/2008		51,326									61,301				
		9/9/2008		51,389									61,385				
		9/16/2008		51,450									61,469				
9/24/2008		9/23/2008		51,506	231	49	679,140	32,598,780	28	388,080	22,274,340		61,553	252	90	1,360,800	57,526,500
		9/29/2008		51,568									61,637				
		10/8/2008		51,640									61,733				
		10/14/2008		51,694									61,805				
		10/21/2008		51,757									61,892				
10/29/2008		10/28/2008		51,820	314	37	697,080	33,295,860	29	546,360	22,820,700		61,973	240	87	1,252,800	58,779,300
		11/4/2008		51,884									62,059				
		11/11/2008		51,945									62,141				
		11/18/2008		52,001									62,227				
11/25/2008		11/25/2008		52,062	242	36	522,720	33,818,580	25	363,000	23,183,700		62,309	250	91	1,365,000	60,144,300
		12/2/2008		--									--				
		12/9/2008		52,179									62,478				
		12/16/2008		52,235									62,563				
		12/23/2008		52,252									62,648				
12/30/2008		12/30/2008		52,302	240	30	432,000	34,250,580	22	316,800	23,500,500		62,730	252	91	1,375,920	61,520,220
		12/31/2008		52,316									62,748				
		1/13/2009		52,431									62,902				
		1/21/2009		52,480									62,995				

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								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
1/28/2009		1/27/2009		52,523	271	31	504,060	34,754,640	24	390,240	23,890,740		63,068	420	86	2,167,200	63,687,420
		2/4/2009		52,593									63,162				
		2/10/2009		52,657									63,243				
		2/17/2009		52,713									63,323				
2/24/2009		2/24/2009		52,769	246	37	546,120	35,300,760	32	472,320	24,363,060		63,402	334	86	1,723,440	65,410,860
		3/3/2009		52,829									63,487				
		3/10/2009		52,891									63,569				
		3/17/2009		52,957									63,657				
3/23/2009		3/23/2009		53,015	246	38	560,880	35,861,640	30	442,800	24,805,860		63,737	335	87	1,748,700	67,159,560
		3/31/2009		53,078									63,822				
		4/7/2009		53,141									63,906				
		4/14/2009		53,208									63,989				
4/20/2009		4/21/2009		53,223	208	37	461,760	36,323,400	24	299,520	25,105,380		64,074	337	86	1,738,920	68,898,480
		4/28/2009		53,318									64,158				
		5/5/2009		53,380									64,244				
		5/12/2009		53,440									64,325				
5/18/2009		5/18/2009		53,499	276	36	596,160	36,919,560	24	397,440	25,502,820		64,325	251	84	1,265,040	70,163,520
		5/19/2009		53,502									64,408				
		5/26/2009		53,563									64,490				
		6/3/2009		53,635									64,586				
		6/11/2009		53,689									64,659				
		6/16/2009		53,754									64,744				
		6/23/2009		53,814									64,826				
6/25/2009		6/25/2009		53,837	338	38	770,640	37,690,200	22	446,160	25,948,980		64,854	529	84	2,666,160	72,829,680
		6/30/2009		53,879									64,913				
		7/7/2009		54,002									65,080				
		7/14/2009		53,937									64,994				
7/16/2009		7/16/2009		54,023	186	41	457,560	38,147,760	26	290,160	26,239,140		65,107	253	83	1,259,940	74,089,620
		7/21/2009		54,063									65,162				
		7/28/2009		54,126									65,246				
		8/4/2009		54,189									65,330				
		8/11/2009		54,254									65,416				
		8/18/2009		54,314									65,497				
8/26/2009		8/25/2009		54,377	354	35	743,400	38,891,160	22	467,280	26,706,420		65,582	475	82	2,337,000	76,426,620
		9/1/2009		54,440									65,666				
		9/8/2009		54,503									65,750				
		9/15/2009		54,565									65,833				
9/22/2009		9/22/2009		54,629	252	37	559,440	39,450,600	31	468,720	27,175,140		65,918	336	67	1,350,720	77,777,340
		9/29/2009		54,690									66,002				
		10/6/2009		54,753									66,085				
		10/13/2009		54,816									66,170				
		10/20/2009		54,880									66,254				
		10/27/2009		54,943									66,339				
		11/3/2009		55,008									66,425				
		11/10/2009		55,069									66,507				
		11/17/2009		55,131									66,591				
11/23/2009		11/24/2009		55,192	563	38	1,283,640	40,734,240	22	743,160	27,918,300		66,673	755	67	3,035,100	80,812,440
		12/1/2009		55,256									66,759				
		12/8/2009															
		12/15/2009		55,372									66,927				
		12/22/2009		55,432									67,010				
12/28/2009		12/29/2009		55,487	356	38	811,680	41,545,920	23	491,280	28,409,580		67,095	504	82	2,479,680	83,292,120
		1/5/2010		55,549									67,178				
		1/12/2010		55,616									67,266				
		1/19/2010		55,676									67,348				
		1/26/2010		55,739									67,432				
		2/2/2010		55,800									67,515				
2/10/2010		2/9/2010		55,849	362	37	803,640	42,349,560	23	499,560	28,909,140		67,601	506	49	1,487,640	84,779,760
		2/16/2010		55,909									67,683				
		2/23/2010		55,963									67,767				
		3/2/2010		56,008									67,851				
		3/9/2010		50,071									67,935				
		3/16/2010		56,012									68,018				
3/26/2010		3/23/2010		56,182	333	39	779,220	43,128,780	3	59,940	28,969,080		68,101	500	53	1,590,000	86,369,760
		3/30/2010		56,243									68,188				
		4/7/2010		56,316									68,287				
		4/14/2010		56,391									68,364				
		4/21/2010		56,459									68,440				
		4/27/2010		56,575									68,522				
		5/4/2010		56,649									68,606				
		5/11/2010		56,730									68,689				
5/21/2010		5/18/2010		56,874	692	6	249,120	43,377,900	1	41,520	29,010,600		68,776	675	62	2,511,000	88,880,760
		5/25/2010		56,914									68,826				
		6/1/2010		56,969									68,909				
		6/8/2010		57,035									68,997				
		6/15/2010		57,073									69,078				
		6/22/2010		57,115									69,162				
6/28/2010		6/28/2010		57,156	282	36	609,120	43,987,020	17	287,640	29,298,240		69,246	470	21	592,200	89,472,960
		7/6/2010		57,197									69,331				
		7/13/2010		57,235									69,323				
		7/20/2010		57,279									69,497				
		7/27/2010		57,320									69,581				
		8/3/2010		57,362									69,665				
8/11/2010		8/11/2010		57,410	254	39	594,360	44,581,380	24	365,760	29,664,000		69,761	515	28	865,200	90,338,160
		8/17/2010		57,441									69,835				

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								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		8/25/2010		57,493									69,940				
		8/31/2010		57,520									70,001				
		9/7/2010		57,562									70,085				
		9/15/2010		57,610									70,185				
9/23/2010		9/21/2010		57,643	233	35	489,300	45,070,680	26	363,480	30,027,480		70,253	492	72	2,125,440	92,463,600
		9/28/2010		57,684									70,336				
		10/5/2010		57,720									70,422				
		10/12/2010		57,759									70,506				
		10/19/2010		57,798									70,588				
		10/26/2010		57,836									70,673				
		11/2/2010		57,878									70,757				
11/18/2010		11/9/2010		57,920	277	36	598,320	45,669,000	34	565,080	30,592,560		70,845	592	69	2,450,880	94,914,480
		11/16/2010															
		12/8/2010		58,059									71,178				
12/22/2010		12/14/2010		58,094	174	36	375,840	46,044,840	41	428,040	31,020,600		71,249	404	81	1,963,440	96,877,920
		1/4/2011		58,192									71,500				
		1/11/2011		58,228									71,585				
		1/18/2011		58,271									71,670				
		1/25/2011		58,311									71,756				
		2/1/2011		58,350									71,837				
2/9/2011		2/8/2011		58,386	292	65	1,138,800	47,183,640	47.41	830,623	31,851,223		71,920	671	102	1,787,040	98,664,960
		2/15/2011		58,419									72,004				
		2/22/2011		58,457									72,091				
		3/1/2011		58,487									72,173				
3/10/2011		3/8/2011		58,525	139	55	458,700	47,642,340	42.9	357,786	32,209,009		72,259	339	92	767,280	99,432,240
		3/15/2011		58,555									72,340				
		3/22/2011		58,593									72,422				
		3/29/2011		58,632									72,508				
		4/5/2011		58,690									72,593				
		4/12/2011		58,730									72,674				
		4/19/2011		58,772									72,760				
		4/26/2011		58,814									72,844				
5/4/2011		5/3/2011		58,855	330	56	1,108,800	48,751,140	50.736	1,004,573	33,213,582		72,926	667	86	1,702,800	101,135,040
		5/10/2011		58,898									73,012				
		5/17/2011		58,939									73,096				
		5/24/2011		58,978									73,180				
		5/31/2011		58,021									73,265				
		6/7/2011		59,061									73,346				
6/17/2011		6/15/2011		59,111	—	—	—	—	—	—	—		73,446	—	—	—	—
		6/22/2011		59,145									73,516				
		6/28/2011		59,186									73,591				
		7/5/2011		59,228									73,683				
		7/12/2011		59,262									73,767				
		7/19/2011		59,276									73,851				
		7/26/2011		59,282									73,934				
8/4/2011		8/2/2011		59,288	433	57	1,480,860	50,232,000	53.124	1,380,162	34,593,744		74,019	1093	84	2,182,320	103,317,360
		8/9/2011		59,328									74,103				
		8/16/2011		59,368									74,184				
		8/23/2011		59,407									74,267				
		8/31/2011		59,474									74,365				
		9/5/2011		59,528									74,436				
		9/13/2011		59,571									74,520				
9/20/2011		9/22/2011		59,680	392	67	1,575,840	51,807,840	42.344	995,931	35,589,674		74,631	612	99	2,328,480	105,645,840
		9/27/2011		59,743									74,688				
		10/4/2011		59,818									74,772				
		10/11/2011		59,898									74,855				
		10/18/2011		59,957									74,940				
		10/25/2011		60,016									75,023				
11/3/2011		11/1/2011		60,127	447	54	1,448,280	53,256,120	32.94	883,451	36,473,125		75,108	477	62	1,662,840	107,308,680
		11/8/2011		60,256									75,193				
		11/16/2011		60,347									75,290				
		11/22/2011		60,382									75,361				
		12/6/2011		60,460									75,532				
		12/13/2011		60,497									75,614				
		12/20/2011		60,538									75,699				
12/29/2011		12/27/2011		60,562	435	54	1,409,400	54,665,520	39.744	1,037,318	37,510,444		75,787	679	78	2,035,800	109,344,480
		1/3/2012		60,599									75,865				
		1/10/2012		60,659									75,949				
		1/17/2012															
		1/24/2012		60,740									76,117				
		1/31/2012		60,781									76,201				
2/7/2012		2/7/2012		60,823	261	55	861,300	55,526,820	37	579,420	38,089,864		76,286	499	51	798,660	110,143,140
		2/14/2012		60,868									76,373				
		2/21/2012		60,906									76,453				
		2/28/2012		60,951									76,541				
		3/6/2012		60,990									76,621				
		3/13/2012		61,032									76,706				
		3/20/2012		61,073									76,789				
3/28/2012		3/27/2012		61,115	292	51	893,520	56,420,340	42	735,840	38,825,704		76,873	587	51	893,520	111,036,660
		4/3/2012		61,157									76,957				
		4/10/2012		61,234									77,040				
		4/17/2012		61,295									77,124				
		4/24/2012		61,338									77,209				
		5/1/2012		61,380									77,293				
5/9/2012		5/8/2012		61,439	324	46	894,240	57,314,580	29	563,760	39,389,464		77,376	503	51	991,440	112,028,100

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Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		5/15/2012		61,534									77,462				
		5/22/2012		61,611									77,545				
		5/29/2012		61,672									77,628				
		6/5/2012		61,714									77,712				
		6/12/2012		61,756									77,796				
		6/19/2012		61,823									77,880				
6/27/2012		6/26/2012		61,864	425	81	2,065,500	59,380,080	75	1,912,500	41,301,964		77,964	588	37	943,500	112,971,600
		7/3/2012		61,907									78,046				
		7/10/2012		61,948									78,133				
		7/18/2012		61,996									78,229				
		7/24/2012		62,031									78,300				
		7/31/2012		62,073									78,385				
		8/7/2012		62,117									78,471				
8/9/2012		8/14/2012		62,157	293	74	1,300,920	60,681,000	65	1,142,700	42,444,664		78,553	589	52	914,160	113,885,760
		8/21/2012		62,201									78,640				
		8/28/2012		62,240									78,720				
		9/4/2012		62,284									78,807				
		9/11/2012		62,330									78,899				
		9/18/2012		62,366									78,973				
9/26/2012		9/25/2012		62,407	250	40	600,000	61,281,000	35	525,000	42,969,664		79,056	503	54	810,000	114,695,760
		10/2/2012		62,449									79,139				
		10/9/2012		62,491									79,225				
		10/16/2012		62,534									79,310				
		10/22/2012		62,575									79,393				
		11/6/2012		62,658									79,561				
11/6/2012		11/13/2012		62,703	296	45	799,200	62,080,200	43	763,680	43,733,344		79,649	593	69	1,225,440	115,921,200
		11/20/2012		62,742									79,728				
		11/27/2012		62,781									79,814				
		12/4/2012		62,825									79,895				
		12/11/2012		62,866									79,979				
		12/18/2012		62,908									80,064				
12/20/2012		12/26/2012		62,956	253	84	1,275,120	63,355,320	71	1,077,780	44,811,124		80,160	346	67	1,017,060	116,938,260
		1/2/2013		62,998									80,244				
		1/8/2013		63,033									80,318				
		1/15/2013		63,065									80,394				
		1/22/2013		63,104									80,478				
1/30/2013		1/29/2013		63,148	192	21	241,920	63,597,240	13.44	154,829	44,965,952		80,564	404	14	161,280	117,099,540
		2/5/2013		63,184									80,646				
		2/12/2013		63,231									80,736				
		2/19/2013		63,268									80,815				
		2/26/2013		63,309									80,897				
		3/5/2013		63,347									80,976				
		3/12/2013		63,389									81,059				
		3/19/2013		63,431									81,143				
3/21/2013		3/26/2013		63,473	325	26	507,000	64,104,240	15.08	294,060	45,260,012		81,228	664	17	331,500	117,431,040
		4/2/2013		63,511									81,311				
		4/9/2013		63,556									81,395				
		4/16/2013		63,594									81,479				
		4/23/2013		63,633									81,569				
4/30/2013		4/30/2013		63,666	193	24	277,920	64,382,160	14.592	168,975	45,428,988		81,647	419	14	162,120	117,593,160
		5/7/2013		63,705									81,731				
		5/14/2013		63,744									81,815				
		5/21/2013		63,784									81,898				
		5/28/2013		63,818									81,980				
		6/4/2013		63,861									82,067				
		6/11/2013		63,901									82,149				
6/18/2013		6/18/2013		63,942	276	27	447,120	64,829,280	19.44	321,926	45,750,914		82,233	586	17	281,520	117,874,680
		6/25/2013		63,987									82,320				
		7/2/2013		64,028									82,405				
		7/9/2013		64,067									82,485				
		7/16/2013		64,125									82,569				
		7/23/2013		64,182									82,653				
		7/30/2013		64,225									82,738				
8/1/2013		8/6/2013		64,268	326	15	293,400	65,122,680	9.18	179,561	45,930,475		82,823	590	15	293,400	118,168,080
		8/13/2013		64,309									82,907				
		8/20/2013		64,349									82,989				
		8/27/2013		64,393									83,077				
		9/4/2013		64,470									83,159				
		9/10/2013		64,509									83,241				
		9/17/2013		64,553									83,327				
9/19/2013		9/24/2013		64,593	325	20	390,000	65,512,680	15.92	310,440	46,240,915		83,409	586	15	292,500	118,460,580
		10/1/2013		64,636									83,495				
		10/8/2013		64,677									83,578				
		10/15/2013		64,717									83,661				
		10/22/2013		64,762									83,749				
10/29/2013		10/29/2013		64,819	226	34	461,040	65,973,720	18.836	255,416	46,496,331		83,831	422	9	122,040	118,582,620
		11/5/2013		64,860									83,914				
		11/12/2013		64,890									83,998				
		11/26/2013		64,970									84,160				
		12/3/2013		65,012									84,250				
		12/10/2013		65,051									84,334				
		12/17/2013		65,096									84,422				
		12/24/2013		65,141									84,510				
12/17/2013		12/31/2013		65,243	424	39	992,160	66,965,880	23.244	591,327	47,087,658		84,585	754	12	305,280	118,887,900
		1/8/2014		65,289									84,672				

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Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		1/14/2014		65,328									84,750				
		1/21/2014		65,368									84,833				
		1/28/2014		35,048									84,916				
		2/4/2014		65,449									85,000				
2/13/2014		2/11/2014		65,478	235	27	380,700	67,346,580	16.1	226,897	47,314,556		85,084	499	11	155,100	119,043,000
		2/18/2014		65,515									85,164				
		2/25/2014		65,555									85,212				
		3/4/2014		65,598									85,300				
		3/11/2014		65,640									85,380				
		3/18/2014		65,663									85,465				
		3/25/2014		65,693									85,549				
		4/1/2014		65,718									85,630				
		4/8/2014		65,742									85,714				
		4/15/2014		65,769									85,800				
		4/22/2014		65,787									85,881				
		4/29/2014		65,803									85,966				
5/7/2014		5/6/2014		65,826	348	34	709,920	68,056,500	20.3	423,112	47,737,668		86,049	965	0	0	119,043,000
		5/20/2014		65,880									86,218				
		6/3/2014		65,974									86,391				
		6/10/2014		66,012									86,474				
6/18/2014		6/17/2014		66,052	226	14	189,840	68,246,340	8.3	113,145	47,850,813		86,556	507	0	0	119,043,000
		6/24/2014		66,092									86,638				
		7/1/2014		66,133									86,723				
		7/8/2014		66,174									86,806				
		7/16/2014		66,224									86,904				
		7/22/2014		66,257									86,973				
		7/29/2014		66,299									87,059				
8/5/2014		8/5/2014		66,340	288	30.1	520,128	68,766,468	17.9	309,996	48,160,809		87,141	585	0	0	119,043,000
		8/12/2014		66,382									87,225				
		8/19/2014		66,464									87,313				
		8/26/2014		66,507									87,393				
		9/2/2014		66,591									87,480				
		9/9/2014		66,547									87,562				
9/16/2014		9/16/2014		66,591	251	25.3	381,018	69,147,486	15.1	227,087	48,387,896		87,649	508	0	0	119,043,000
		9/23/2014		66,630									87,730				
		9/30/2014		66,669									87,813				
		10/7/2014		66,713									87,901				
		10/14/2014		66,749									87,984				
		10/21/2014		66,789									88,068				
10/29/2014		10/28/2014		66,830	239	23.4	335,556	69,483,042	13.9	199,991	48,587,887		88,150	501	0	0	119,043,000
		11/4/2014		66,892									88,236				
		11/18/2014		66,974									88,403				
		11/25/2014		67,016									88,487				
		12/2/2014		67,016									88,571				
		12/9/2014		67,093									88,655				
12/16/2014		12/16/2014		67,129	299	41	735,540	70,218,582	30.3	542,829	49,130,716		88,728	578	0	0	119,043,000
		12/23/2014		67,206									88,814				
		12/30/2014		67,247									88,899				
		1/6/2015		67,291									88,987				
		1/13/2015		67,329									89,065				
		1/20/2015		67,370									89,149				
		1/27/2015		67,485									89,234				
2/3/2015		2/3/2015		67,517	388	41.2	959,136	71,177,718	24.9	579,318	49,710,034		89,317	589	0	0	119,043,000
		2/10/2015		67,557									89,400				
		2/17/2015		67,598									89,485				
		2/24/2015		67,637									89,567				
		3/3/2015		67,667									89,650				
		3/10/2015		67,717									89,733				
3/18/2015		3/17/2015		67,758	241	45.5	657,930	71,835,648	24.7	356,598	50,066,632		89,824	507	21.4	650,988	119,693,988
		3/24/2015		67,790									89,904				
		3/31/2015		67,825									89,986				
		4/7/2015		67,861									90,069				
		4/14/2015		67,897									90,154				
		4/21/2015		67,936									90,239				
4/29/2015		4/28/2015		67,975	217	44	572,880	72,408,528	24.1	313,938	50,380,570		90,323	499	13.4	401,196	120,095,184
		5/5/2015		68,014									90,407				
		5/12/2015		68,054									90,491				
		5/19/2015		68,095									90,576				
		5/26/2015		68,134									90,658				
		6/2/2015		68,170									90,744				
		6/9/2015		68,209									90,826				
6/16/2015		6/16/2015		68,250	275	41.9	691,350	73,099,878	24.0	395,452	50,776,022		90,909	586	17.6	618,816	120,714,000
		6/23/2015		68,377									90,995				
		6/30/2015		68,450									91,076				
		7/7/2015		68,513									91,162				
		7/14/2015		68,268									91,247				
		7/21/2015		68,589									91,329				
		7/28/2015		68,666									91,413				
8/4/2015		8/11/2015		68,831	581	43.9	1,530,354	74,630,232	20.5	713,145	51,489,167		91,586	677	0	0	120,714,000
		8/18/2015		68,893									91,666				
		8/25/2015		68,941									91,749				
		9/1/2015		69,033									91,832				
		9/8/2015		69,074									91,918				
9/15/2015		9/15/2015		69,145	314	42.3	796,932	75,427,164	21.3	401,654	51,890,821		91,997	411	16.7	411,822	121,125,822
		9/22/2015		69,199									92,086				

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								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		9/29/2015		69,283									92,166				
		10/6/2015		69,344									92,253				
		10/13/2015		69,395									92,340				
		10/20/2015		69,395									92,418				
10/28/2015		10/27/2015		69,466	321	38.7	745,362	76,172,526	22.6	435,291	52,326,112		92,502	505	19.1	578,730	121,704,552
		11/3/2015		69,533									92,588				
		11/10/2015		69,553									92,672				
		11/17/2015		69,621									92,755				
		11/24/2015		69,674									92,839				
		12/1/2015		69,694									92,925				
12/10/2015		12/8/2015		69,759	293	40.4	710,232	76,882,758	25.5	448,867	52,774,979		93,010	508	5.3	161,544	121,866,096
		12/15/2015		69,809									93,093				
		12/22/2015		69,835									93,175				
		12/29/2015		69,871									93,259				
		12/30/2015		69,882									93,290				
		1/5/2016		69,879									93,344				
		1/12/2016		69,925									93,430				
		1/19/2016		69,957									93,518				
		1/26/2016		69,957									93,596				
2/3/2016		2/2/2016		70,020	261	0	0	76,882,758	0.0	0	52,774,979		93,680	670	0	0	121,866,096
		2/9/2016		70,085									93,760				
		2/16/2016		70,114									93,844				
		2/23/2016		70,155									93,929				
		3/1/2016		70,178									94,013				
		3/8/2016		70,221									94,096				
		3/15/2016		70,278									94,179				
3/23/2016		3/21/2016		70,312	292	0	0	76,882,758	0.0	0	52,774,979		94,262	582	0	0	121,866,096
		3/29/2016		70,363									94,346				
		4/5/2016		70,407									94,430				
		4/12/2016		70,408									94,515				
		4/19/2016		70,496									94,599				
		4/25/2016		70,533									94,681				
		5/3/2016		70,607									94,765				
5/12/2016		5/10/2016		70,657	345	50	1,035,000	77,917,758	22.2	459,540	53,234,519		94,852	590	18	637,200	122,503,296
		5/17/2016		70,699									94,888				
		5/24/2016		70,702									94,896				
		5/31/2016		70,702									94,986				
		6/7/2016		70,710									94,921				
		6/14/2016		70,728									94,949				
		6/21/2016		70,741									94,987				
		6/28/2016		70,754									95,023				
		7/5/2016		70,754									95,062				
		7/12/2016		70,759									95,077				
7/25/2016		7/19/2019		70,761	104	51	318,240	78,235,998	46.9	292,781	53,527,300		95,080	228	0	0	122,503,296
		7/26/2016		70,773									95,102				
		8/2/2016		70,775									95,105				
		8/9/2016		70,775									95,105				
		8/16/2016		70,775									95,105				
		8/23/2016		70,775									95,105				
		8/30/2016		70,775									95,105				
		9/6/2016		70,775									95,105				
		9/12/2016		70,775									95,105				
		9/20/2016		70,775									95,105				
		9/27/2016		70,775									95,105				
		10/4/2016		70,775									95,105				
		10/11/2016		70,775									95,105				
		10/18/2016		70,775									95,105				
		11/1/2016		70,775									95,105				
		11/2/2016		70,775									95,105				
		11/3/2016		--									--				
		11/9/2016		70,791									95,133				
11/18/2016		11/15/2016		70,805	44	50	132,000	78,367,998	50.7	133,848	53,661,148		95,168	88	33	174,240	122,677,536
		11/22/2016		70,816									95,213				
		11/29/2016		70,836									95,253				
		12/6/2016		70,828									95,294				
		12/13/2016		70,836									95,339				
12/20/2016		12/20/2016		70,848	43	50	129,000	78,496,998	48.1	124,098	53,785,246		95,379	211	29	367,140	123,044,676
		12/27/2016		70,859									95,422				
		12/31/2016		70,865									95,440				
		1/3/2017		70,871									95,463				
		1/10/2017		70,874									95,506				
		1/17/2017		70,885									95,547				
2/1/2017		1/31/2017		70,891	43	32	82,560	78,579,558	29.1	74,964	53,860,210		95,583	204	19.6	239,904	123,284,580
		2/7/2017		70,914									95,672				
		2/14/2017		70,924									95,710				
		2/26/2017		70,930									95,756				
		2/28/2017		70,934									95,794				
		3/7/2017		70,944									95,836				
		3/14/2017		70,954									95,878				
		3/21/2017		70,962									95,924				
		3/28/2017		70,972									96,036				
		4/4/2017		70,980									96,201				
		4/11/2017		70,984									96,371				
		4/25/2017		71,002									96,708				
5/4/2017		5/2/2017		71,002	111	38.8	258,408	78,837,966	36.9	246,004	54,106,215		96,874	1,291	20.1	1,556,946	124,841,526
		5/9/2017		71,012									96,984				
		5/16/2017		71,023									97,001				

Table 10. Soil Gas and Landfill Gas Removal Volumes
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Actual Elaspsed Blower Hours	Montly Blower Hours	Flow (scfm)	Monthyl Volume (ft^3)	Landfill Gas Removal					Soil Gas/Vapor Removal				
								Accum. Volume (ft^3)	Flow @ 50% CH4 (scfm)	Monthly Volume @ 50% CH4 (ft^3)	Accum. Volume @ 50% CH4 (ft^3)	Actual Elapsed Blower Hours	Eapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
		5/23/2017		71,043									97,037				
		5/30/2017		71,053									97,085				
		6/6/2017		71,061									97,127				
		6/13/2017		71,069									91,163				
		6/20/2017		71,084									97,211				
		6/27/2017		71,094									97,247				
		5/16/2017		71,023									97,001				
		5/23/2017		71,043									97,037				
		5/30/2017		71,053									97,085				
		6/6/2017		71,061									97,127				
6/14/2017		6/13/2017		71,069	67	39.3	157,986	78,995,952	38.0	152,614	54,258,829		97,163	289	20.4	353,736	125,195,262
		6/20/2017		71,084									97,211				
		6/27/2017		71,094									97,247				
		7/25/2017		71,135									97,421				
8/2/2017		8/1/2017		71,145	76	35.7	162,792	79,158,744	35.1	160,187	54,419,016		97,463	300	21	378,000	125,573,262
		8/9/2017		71,162									97,505				
		8/15/2017		71,174									97,541				
		8/22/2017		71,186									97,589				
		8/29/2017		71,198									97,627				
		9/5/2017		71,205									97,667				
		9/12/2017		71,215									97,709				
		9/19/2017		71,227									97,751				
9/27/2017		9/26/2017		71,235	90	30.3	163,620	79,322,364	29.9	161,657	54,580,673		97,797	334	18.9	378,756	125,952,018
		10/3/2017		71,271									97,841				
		10/10/2017		71,285									97,885				
		10/17/2017		71,291									97,923				
		10/24/2017		71,303									97,969				
		10/31/2017		71,315									98,012				
11/8/2017		11/7/2017		71,323	88	36.2	191,136	79,513,500	35.2	185,784	54,766,457		98,053	256	21.2	325,632	126,277,650
		11/14/2017		71,338									98,097				
		11/21/2017		71,350									98,139				
		11/28/2017		71,358									98,175				
		12/2/2017		71,368									98,218				
12/15/2017		12/12/2017		71,376	53	31.1	98,898	79,612,398	30.8	97,909	54,864,366		98,262	209	21.6	270,864	126,548,514
		12/19/2017		71,387									98,304				
		12/26/2017		71,395									98,345				
		Total Hours		**28,385**							**Total Hours**		**49,151**				
		Avg hrs./day		**6.47**							**Avg hrs./day**		**11.20**				
		Total Days Operational		**4,389**													

Table 11. LFG and SVE System Flow Rates
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH_4 (scfm)
1/13/2006	4.4	19.6	0.2	94	29.3	21.0	0.1	120	70
3/1/2006	4.0	18.5	1.3	85	30.5	19.7	0.6	87	53
4/3/2006	3.2	18.0	1.7	77	33.8	20.6	1.1	88	59
5/1/2006	2.6	15.2	4.3	81	27.8	19.1	1.1	82	46
6/5/2006	2.9	16.7	2.4	65	32.8	20.5	0.3	83	54
7/13/2006	2.9	16.3	2.8	81	32.1	21.1	0.5	53	34
8/18/2006	2.7	15.8	3.0	81	29.1	20.8	0.5	73	42
9/14/2006	2.8	15.9	3.1	87	32.2	21.8	0.4	62	40
10/19/2006	2.8	16.0	3.3	93	33.3	21.3	0.4	63	42
12/4/2006	3.0	16.1	3.3	93	34.0	21.0	0.7	75	51
1/15/2007	2.8	16.0	3.0	90	33.6	20.0	0.6	49	33
2/23/2007	1.8	10.0	10.0	88	33.2	19.3	1.0	86	57
3/23/2007	3.2	15.6	3.4	84	37.9	25.0	0.0	86	65
5/1/2007	2.8	15.3	3.5	86	34.3	20.1	0.1	58	40
5/17/2007	2.9	14.9	3.6	86	33.7	20.3	0.2	56	38
6/14/2007	2.9	14.9	3.9	84	32.8	21.6	0.4	67	44
7/19/2007	2.9	14.5	3.9	80	36.5	22.2	0.5	N/M	
8/8/2007	2.9	14.4	4.5	87	32.6	20.9	2.7	46	30
9/7/2007	3.0	14.8	4.1	86	34.3	21.3	2.6	42	29
10/26/2007	3.2	15.0	4.0	94	34.5	19.5	4.0	44	30
11/26/2007	3.2	15.6	3.8	92	40.1	19.1	3.6	45	36
12/12/2007	3.3	15.3	3.6	91	41.8	20.0	2.5	85	71
1/30/2008	3.0	14.7	3.9	91	45.4	20.3	0.3	47	43
2/27/2008	2.9	14.7	4.2	91	29.8	18.4	0.9	59	35
3/18/2008	3.4	12.2	4.5	87	32.3	17.2	1.0	43.0	28
3/19/2008	3.5	14.5	3.9	81	46.5	19.4	0.0	39.0	36
8/26/2008	2.4	11.9	6.5	86.0	27.5	20.3	0.7	45.0	25
9/24/2008	2.7	12.6	6.2	90.0	29.0	21.3	0.3	45.0	26
10/29/2008	2.5	12.4	6.6	87.0	39.6	20.5	0.4	35.0	28
11/25/2008	2.8	12.8	6.2	88.0	34.3	19.6	0.2	34.0	23
12/30/2008	2.8	13.0	6.0	89.0	36.9	17.7	0.0	24.0	18
1/28/2009	2.4	12.8	11.4	86.0	39.0	19.5	0.0	31.0	24
2/24/2009	2.7	14.1	4.5	86.0	42.7	19.4	0.0	37.0	32
3/23/2009	2.7	14.4	4.4	87.0	39.8	19.6	0.0	38.0	30
4/20/2009	2.5	12.4	5.4	86.0	32.0	17.6	1.3	37.0	24
5/18/2009	2.0	12.7	5.8	84.0	33.9	18.3	0.6	36.0	24
6/25/2009	2.2	13.3	5.6	84.0	29.4	22.0	0.9	38.0	22
7/16/2009	2.5	14.3	4.4	83.0	31.7	21.5	0.9	41.0	26
8/26/2009	2.0	12.4	5.4	82.0	32.0	21.0	0.2	35.0	22
9/22/2009	3.8	15.2	0.5	67.0	42.0	21.5	0.0	37.0	31
11/23/2009	3.4	14.7	2.5	67.0	29.4	18.4	0.9	38.0	22
12/28/2009	8.9	14.1	3.7	82.0	30.3	17.5	1.8	38.0	23
2/10/2010	8.9	14.1	4.2	49.0	30.9	18.2	0.5	37.0	23
3/26/2010	0.0	8.1	3.8	53.0	4.0	8.9	1.6	39.0	3
5/21/2010	16.2	17.4	0.2	62.0	4.6	3.5	15.4	6.0	1
6/28/2010	12.8	17.7	0.9	21.0	24.0	18.7	0.6	36.0	17
8/11/2010	14.1	16.1	2.2	28.0	30.3	19.2	0.4	39.0	24
9/23/2010	4.5	22.7	3.0	72.0	36.8	35.6	0.0	35.0	26
11/18/2010	2.1	16.0	4.6	69.0	46.6	24.2	0.0	36.0	34

Table 11. LFG and SVE System Flow Rates
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

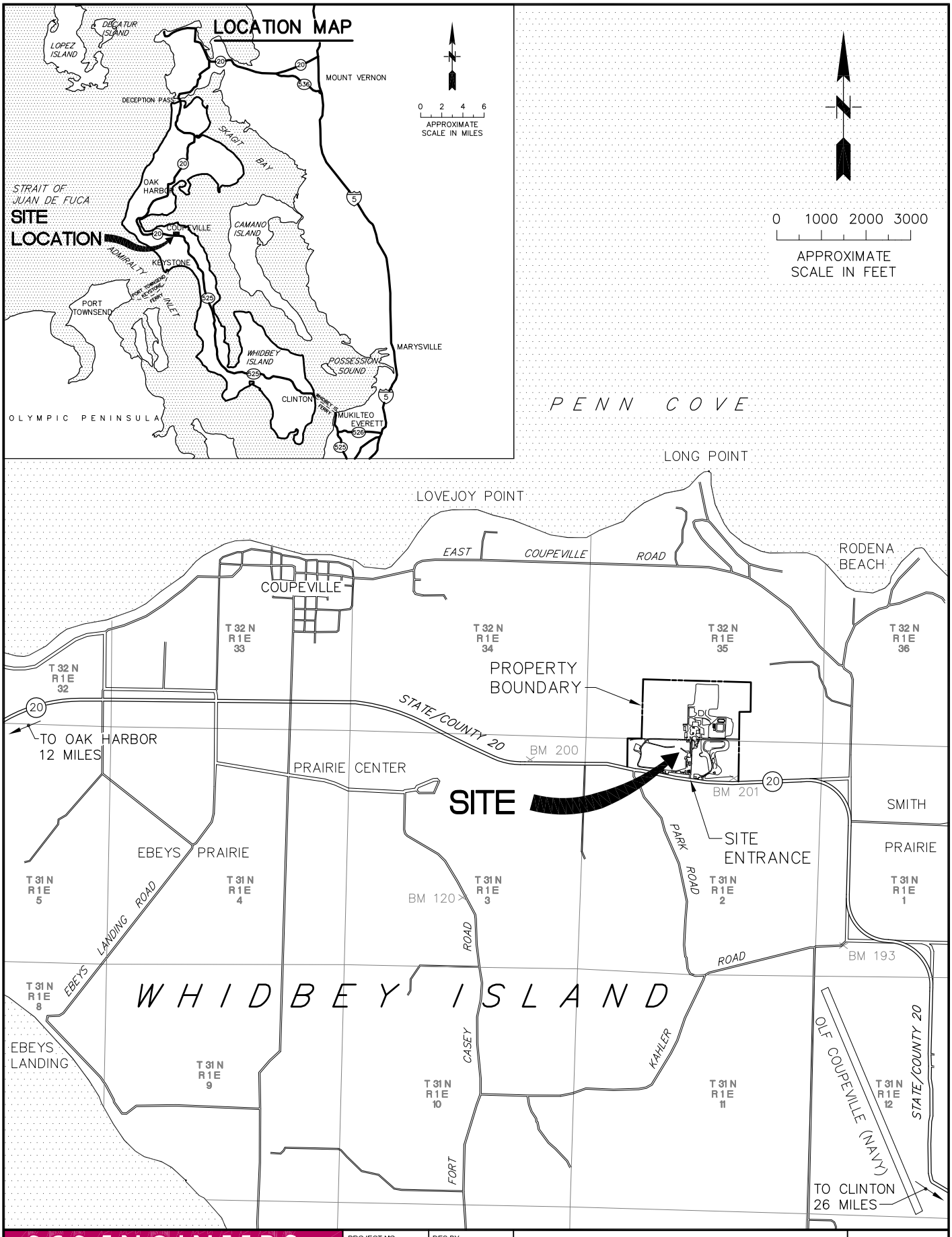
Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH_4 (scfm)
12/22/2010	2.0	12.8	6.1	81.0	56.7	24.0	0.5	36.0	41
2/9/2011	1.5	13.5	7.6	102.0	43.1	16.8	0.7	55.0	47
3/10/2011	1.8	11.7	7.9	92.0	39.0	16.8	2.5	55.0	43
5/4/2011	3.6	13.5	5.8	86.0	45.3	19.2	1.3	56.0	51
8/4/2011	5.2	14.6	4.2	84.0	46.6	24.5	0.1	57.0	53
9/20/2011	4.3	12.5	6.3	99.0	31.6	17.1	5.2	67.0	42
11/3/2011	2.3	14.4	4.5	62.0	30.5	18.4	0.0	54.0	33
12/29/2011	5.6	13.6	4.0	78.0	36.8	18.4	0.7	54.0	40
2/7/2012	5.4	12.3	3.4	51.0	34.1	17.0	0.5	55.0	38
3/28/2012	35.7	14.9	1.2	51.0	0.3	4.0	20.4	51.0	0
5/9/2012	30.4	17.0	0.0	51.0	3.2	13.6	2.9	46.0	3
6/27/2012	1.0	14.4	4.0	37.0	30.3	18.5	0.1	81.0	49
8/9/2012	4.1	14.1	4.2	52.0	31.7	19.4	1.4	74.0	47
9/26/2012	2.9	9.2	10.1	54.0	31.9	18.3	4.2	40.0	26
11/8/2012	1.5	7.8	11.9	69.0	36.2	20.8	0.9	45.0	33
12/20/2012	2.8	11.9	7.9	67.0	37.8	20.1	1.0	84.0	64
1/30/2013	2.9	11.9	6.8	14.0	32.0	17.4	1.7	21.0	13
3/21/2013	2.5	12.3	7.3	17.0	29.0	18.3	1.2	26.0	15
4/30/2013	2.9	12.1	7.1	14.0	30.4	17.6	1.4	24.0	15
6/18/2013	2.7	11.5	6.9	17.0	36.0	19.3	0.9	27.0	19
8/1/2013	2.4	10.5	8.7	15.0	30.6	18.2	3.6	15.0	9
9/19/2013	1.9	8.2	11.6	15.0	39.8	22.3	0.3	20.0	16
10/29/2013	1.9	8.0	11.4	9.0	27.7	15.7	5.3	34.0	19
12/17/2013	2.3	10.1	9.5	12.0	29.8	16.0	4.0	39.0	23
2/13/2014	19.8	14.4	5.3	16.0	29.3	16.1	1.0	32.0	19
5/7/2014	N/M	N/M	N/M	N/M	33.9	17.7	1.3	54.0	37
6/18/2014	N/M	N/M	N/M	N/M	37.8	19.2	0.0	46.0	35
8/5/2014	N/M	N/M	N/M	N/M	32.5	19.3	1.7	41.4	27
9/16/2014	N/M	N/M	N/M	N/M	36.3	20.4	1.5	43.8	32
10/29/2014	N/M	N/M	N/M	N/M	33.4	19.2	1.7	41.3	28
12/16/2014	N/M	N/M	N/M	N/M	36.9	18.7	1.1	41.0	30
2/3/2015	N/M	N/M	N/M	N/M	30.2	17.2	1.6	41.2	25
3/18/2015	0.1	0.5	21.1	21.4	27.1	16.5	1.6	45.5	25
4/29/2015	9.4	10.1	8.5	13.4	27.4	17.1	0.9	44.0	24
6/16/2015	0.0	0.3	20.2	17.6	28.6	18.7	1.3	41.9	24
8/4/2015	0.1	0.6	19.8	0.0	23.3	16.9	3.1	43.9	20
9/15/2015	4.1	3.7	17.3	16.7	25.2	15.2	6.8	42.3	21
10/28/2015	0.0	0.5	20.3	19.1	29.2	19.2	0.5	38.7	23
12/10/2015	0.0	0.2	21.0	5.3	31.6	15.9	3.5	40.4	26
2/3/2016	0.0	0.6	20.5	0.0	24.6	14.1	3.8	0.0	0
3/23/2016	11.1	15.7	1.3	0.0	26.9	16.8	0.7	0.0	0
5/12/2016	24.5	15.9	1.4	18.0	22.2	13.5	2.9	50.0	22
7/25/2016	21.1	16.3	0.1	0.0	46.0	21.5	0.0	51.0	47
11/18/2016	1.4	15.0	0.9	33.0	50.7	21.2	0.2	50.0	51
12/20/2016	0.8	12.3	4.3	29.0	48.1	19.9	0.0	50.0	48
2/1/2017	13.8	12.4	1.7	19.6	45.4	17.8	2.2	32.0	29
5/4/2017	2.8	13.7	0.9	20.1	47.6	17.6	0.3	38.8	37
6/14/2017	3.6	12.5	3.8	20.4	48.3	18.1	1.1	39.3	38
8/2/2017	4.3	12.5	2.6	21.0	49.2	18.7	1.6	35.7	35

Table 11. LFG and SVE System Flow Rates
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH_4 (scfm)
9/27/2017	0.9	3.6	15.8	18.9	49.4	20.3	1.9	30.3	30
11/8/2017	0.0	1.8	20.1	21.2	48.6	21.3	0.1	36.2	35
12/15/2017	2.7	14.9	1.2	21.6	49.5	20.7	0.1	31.1	31

N/M - Not measured

FIGURES



SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	PROJECT NO. 04207033.10	DES BY L.L.	SITE LOCATION MAP ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON	DATE JANUARY 2018
	SCALE AS SHOWN	CHK BY G.H.		FIGURE 1
	CAD FILE FIGURE 1	APP BY D.V.		

NOTES:

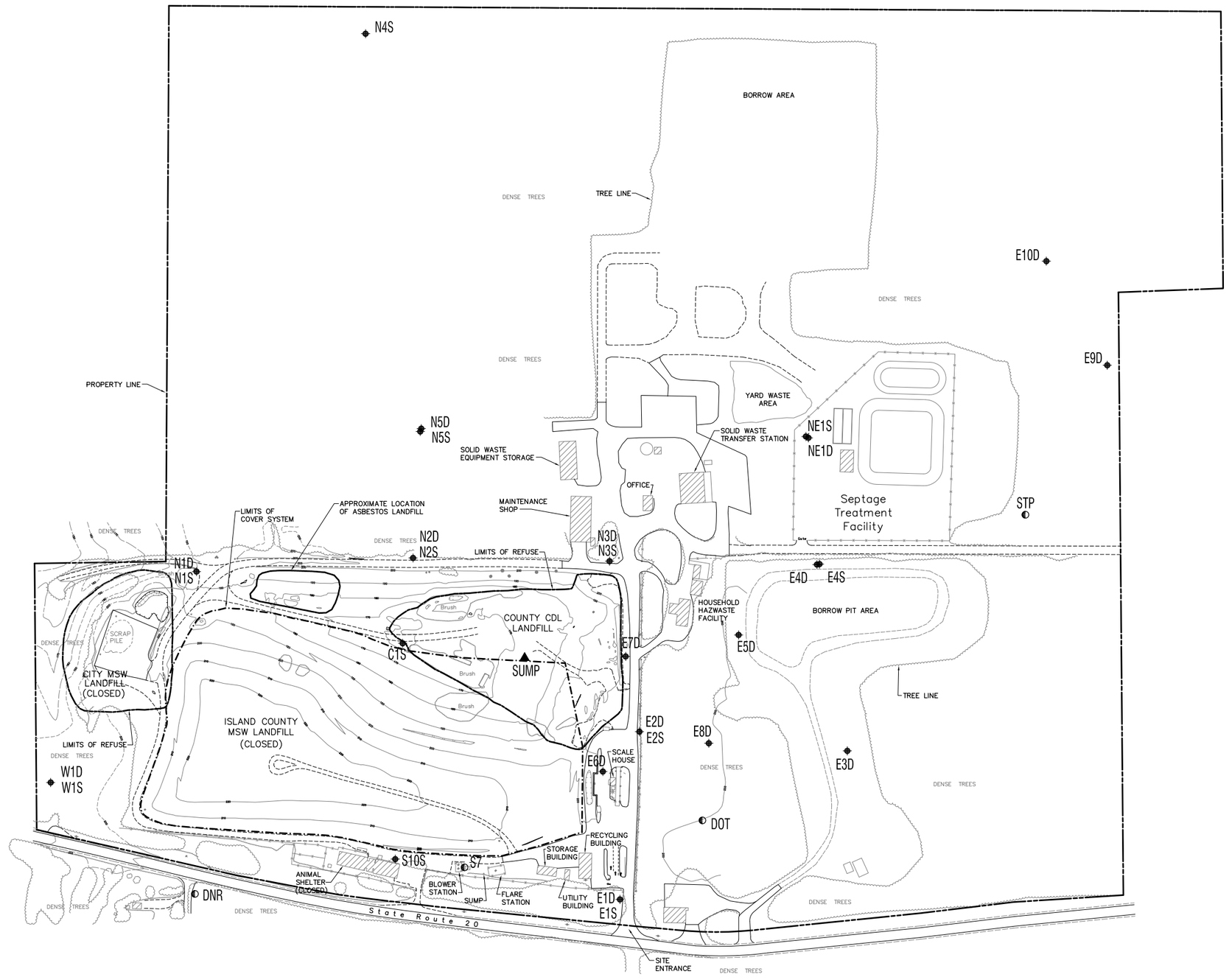
THE SITE TOPOGRAPHIC BASE MAP WAS CREATED BY AERIAL PHOTOGRAMMETRY. BASE MAP PREPARED BY OTHERS. DATE OF PHOTOGRAPH 12-OCT-02.

HORIZONTAL DATUM

HORIZONTAL CONTROL IS BASED ON ASSUMED COORDINATE SYSTEM WITH POINT OF BEGINNING AT USGS BENCH MARK (BM 000).

VERTICAL DATUM

VERTICAL CONTROL IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM.



LEGEND

- Groundwater Monitoring Well
- Pumping Well
- SUMP

GRAPHIC SCALE:

0 300 600

SCALE IN FEET

OFFSITE WELL PAIR S11S/D IS LOCATED APPROXIMATELY 650 FT SOUTH OF ROUTE 20

OFFSITE WELL PAIR SES/D IS LOCATED APPROXIMATELY 500 FT SOUTH OF ROUTE 20

SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

ANNUAL ENVIRONMENTAL MONITORING DATA REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY L.L.	GROUNDWATER MONITORING WELL NETWORK	DATE JANUARY 2018
SCALE AS SHOWN	CHK BY G.H.		FIGURE 2
CAD FILE Figure 2	APP BY D.V.		

Figure 3. Groundwater Elevation Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

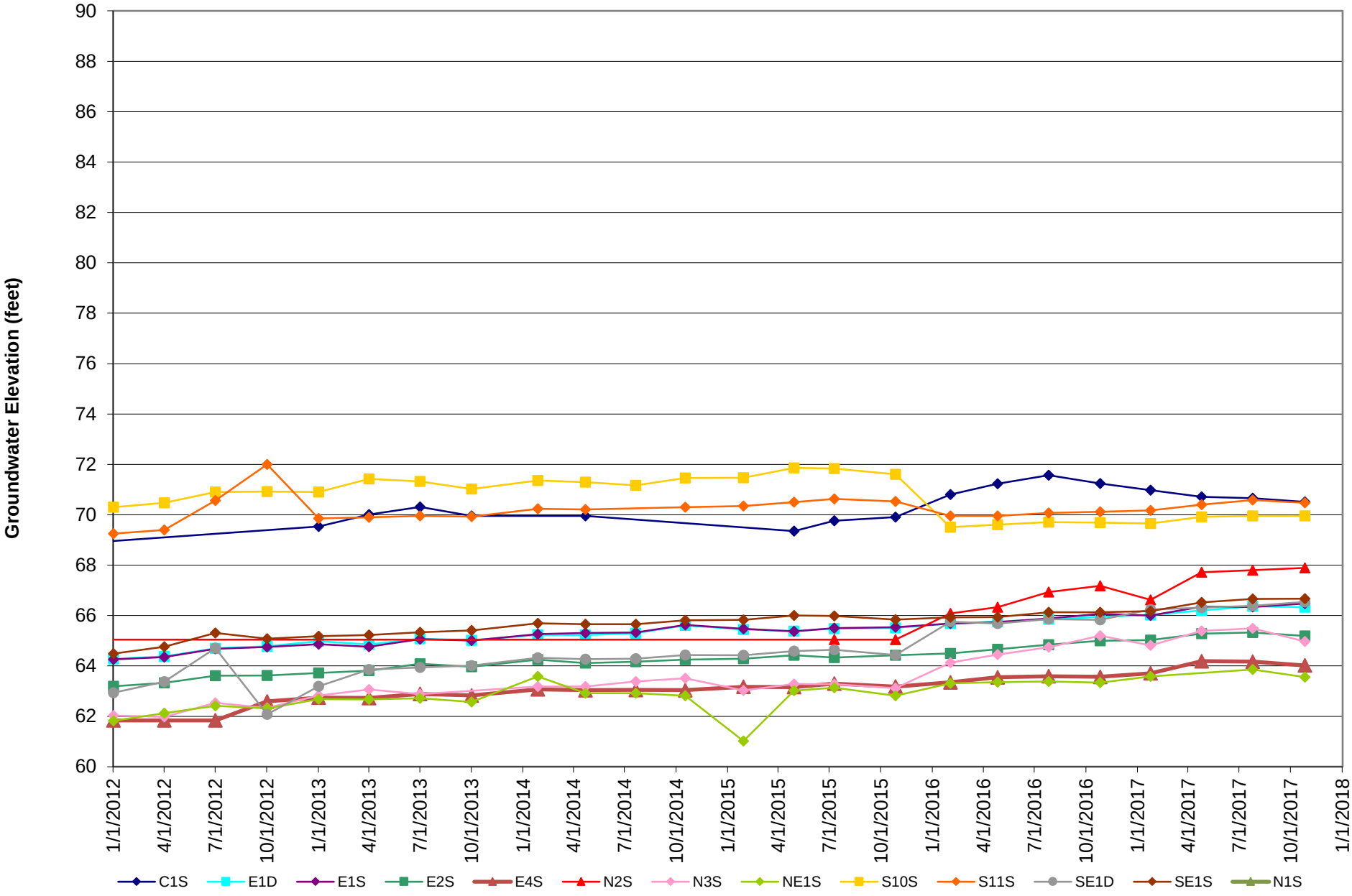


Figure 4. Groundwater Elevation Time Series - Perched Groundwater Zone
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

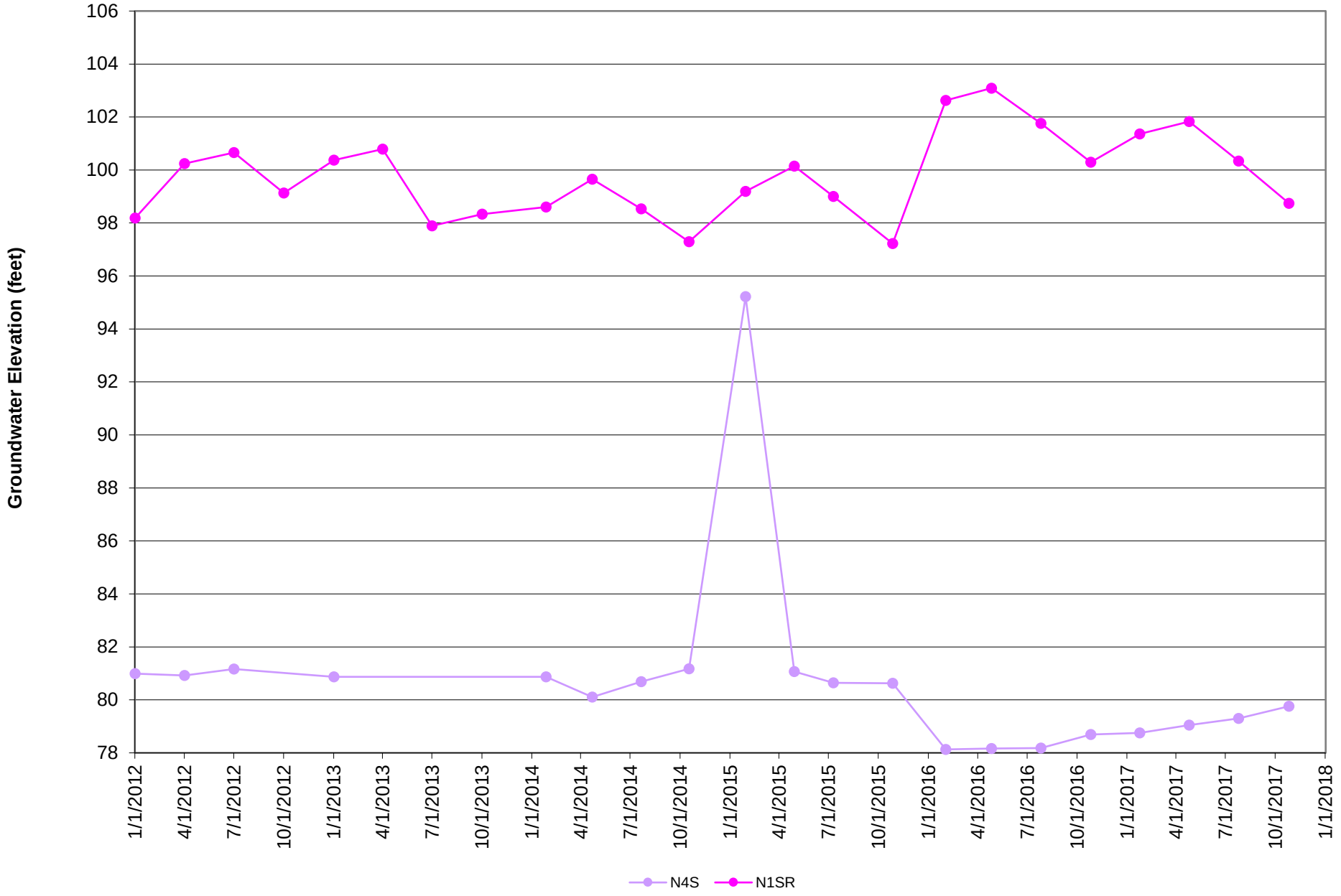
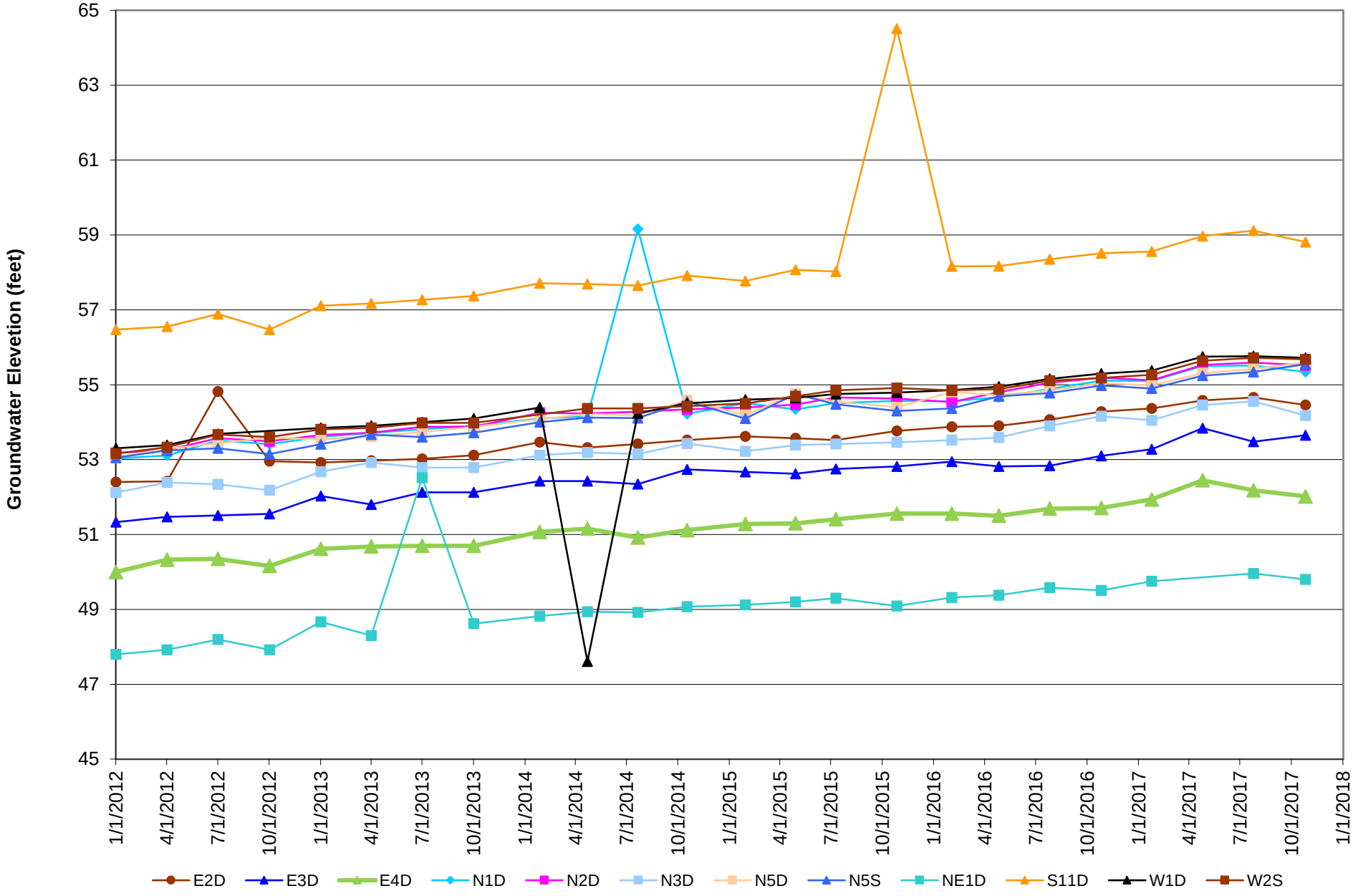
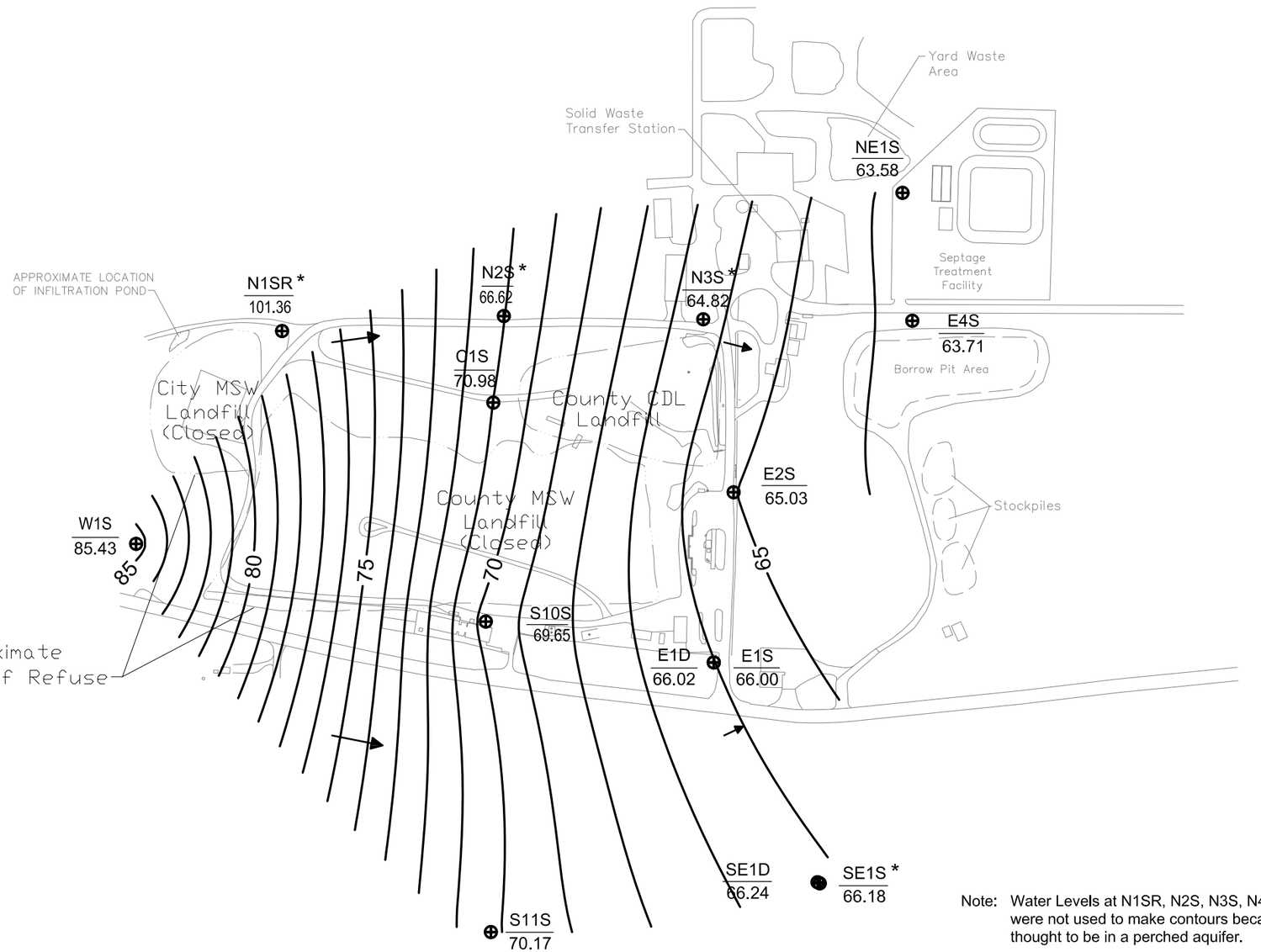


Figure 5. Groundwater Elevation Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington





GRAPHIC SCALE:

0 300 600

SCALE IN FEET

Note: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.

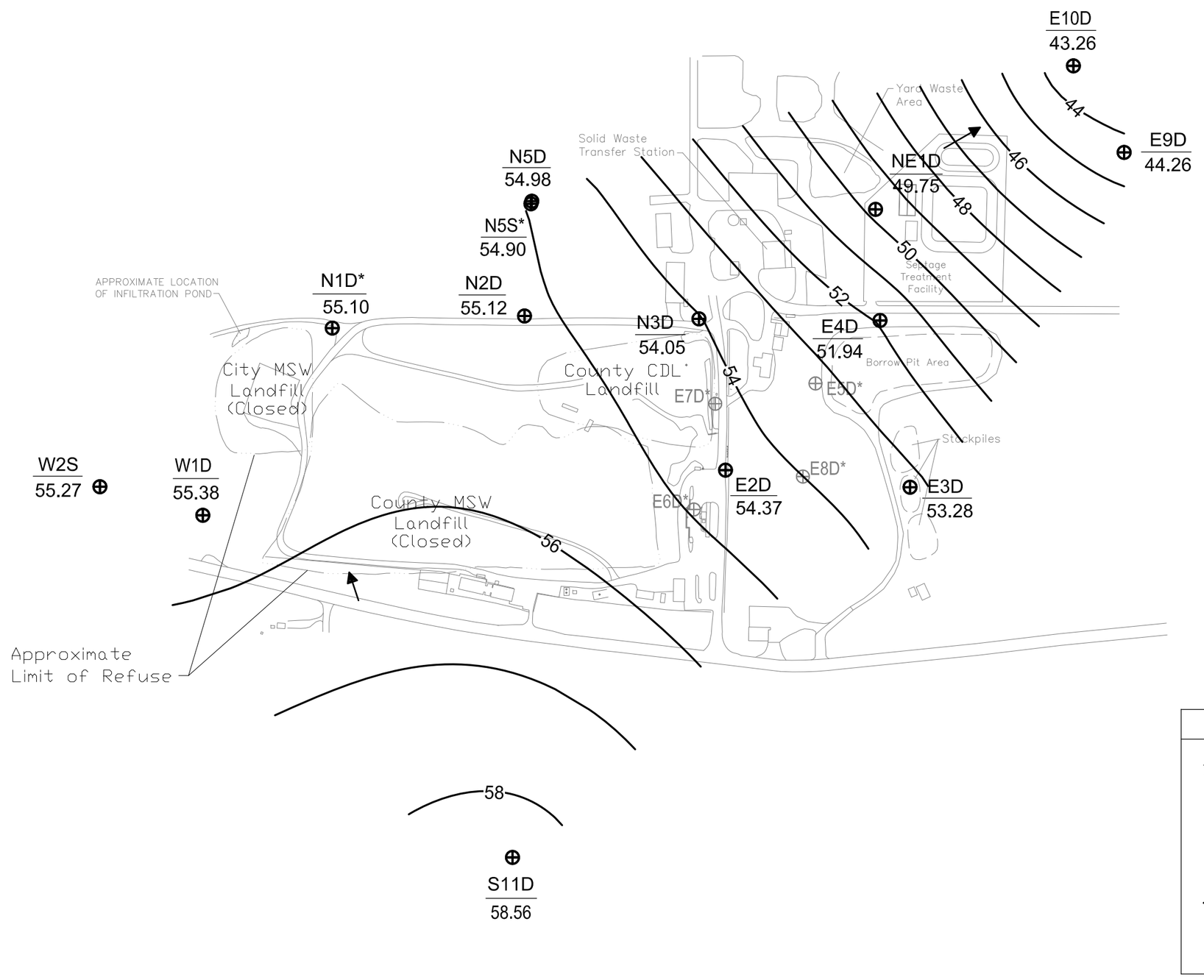
LEGEND	
E2S 65.03	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

SCS ENGINEERS
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

2017 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	JANUARY 2017 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 6A
CAD FILE Figure 6A	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND	
E3D / 53.28	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring

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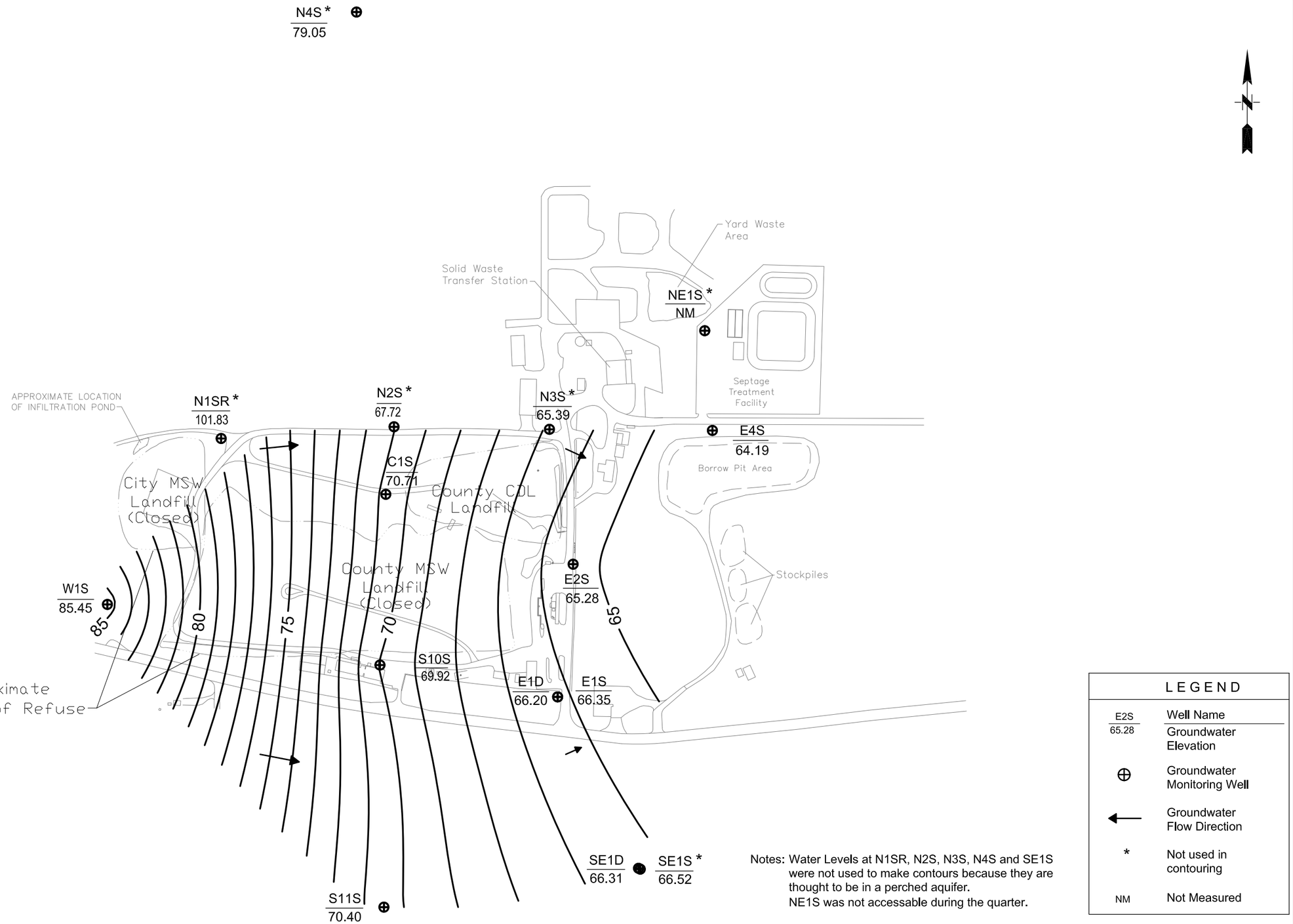
Environmental Consultants and Contractors
2405 140th Avenue NE, Suite 107
Bellevue, Washington 98005
(425) 746-4600 FAX: (425) 746-6747

2017 ANNUAL ENVIRONMENTAL MONITORING REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	JANUARY 2017 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 6B
CAD FILE Figure 6B	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

Notes: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.
NE1S was not accessable during the quarter.

LEGEND	
E2S / 65.28	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring
NM	Not Measured

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Bellevue, Washlngton 98005
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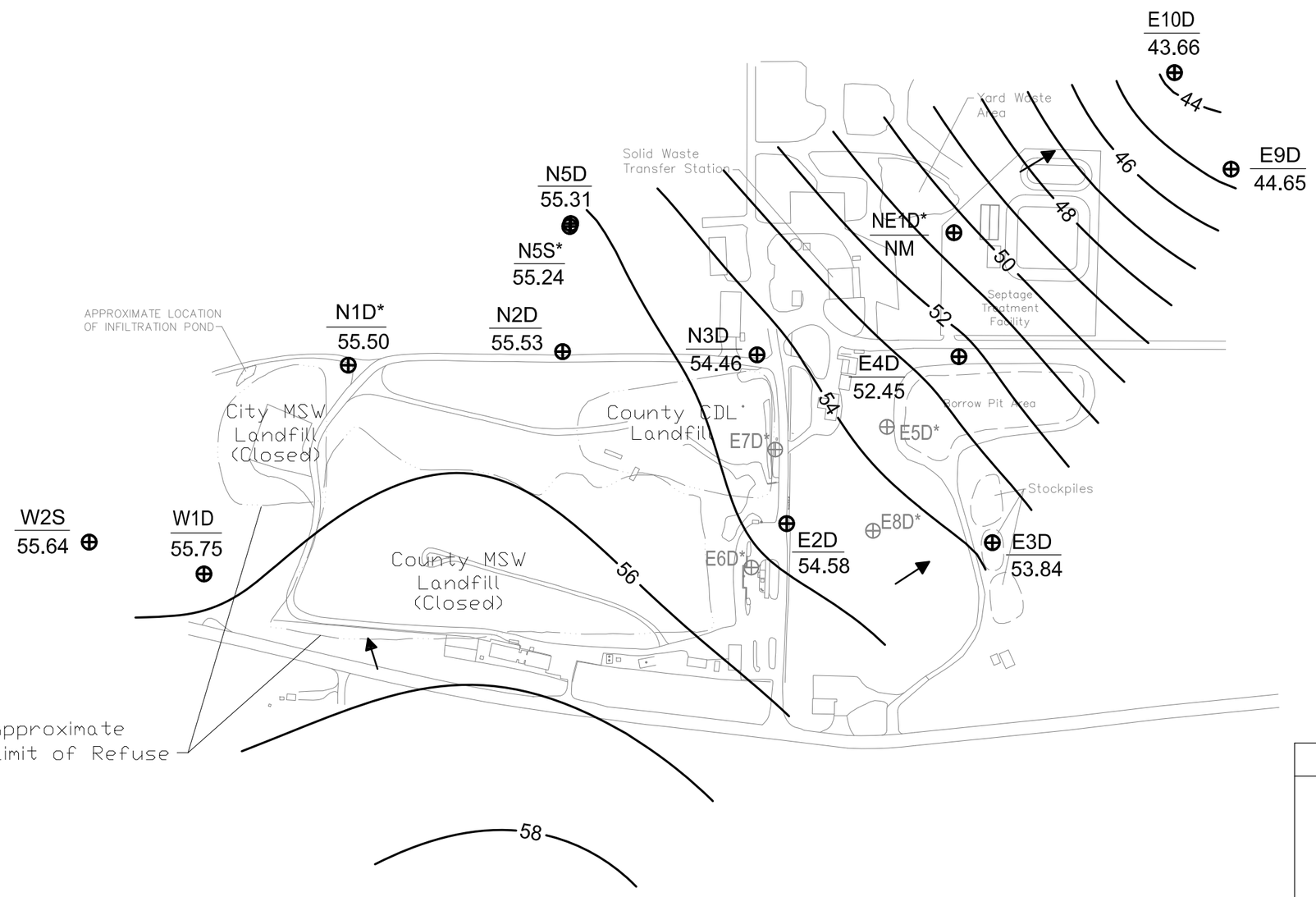
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	APRIL 2017 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 7A
CAD FILE Figure 7A	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND	
E3D / 53.84	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring
NM	Not Measured

Notes: NE1D was not accessable during the quarter.

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Bellevue, Washington 98005
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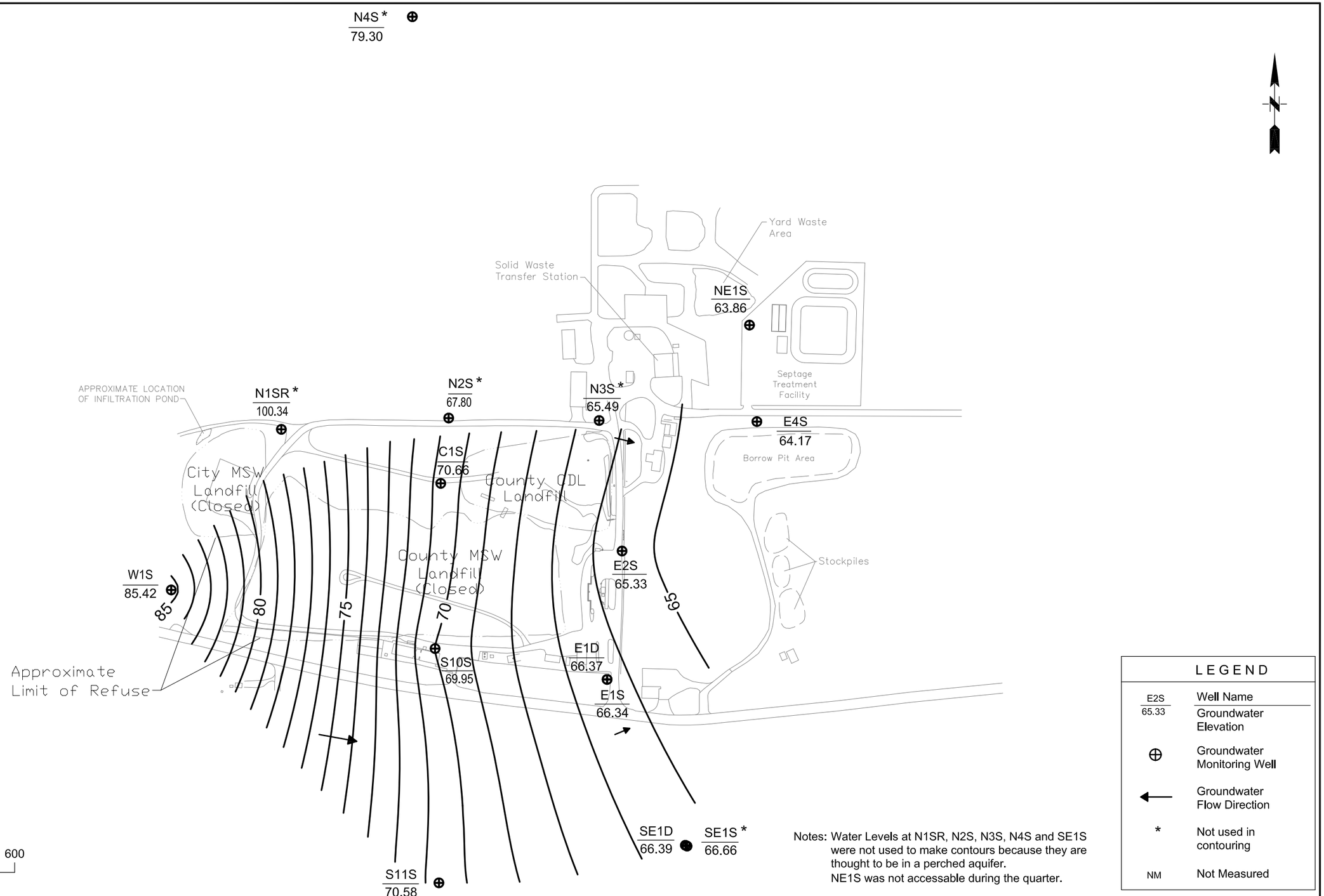
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	APRIL 2017 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 7B
CAD FILE Figure 7B	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

Notes: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.
NE1S was not accessable during the quarter.

LEGEND

E2S 65.33	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring
NM	Not Measured

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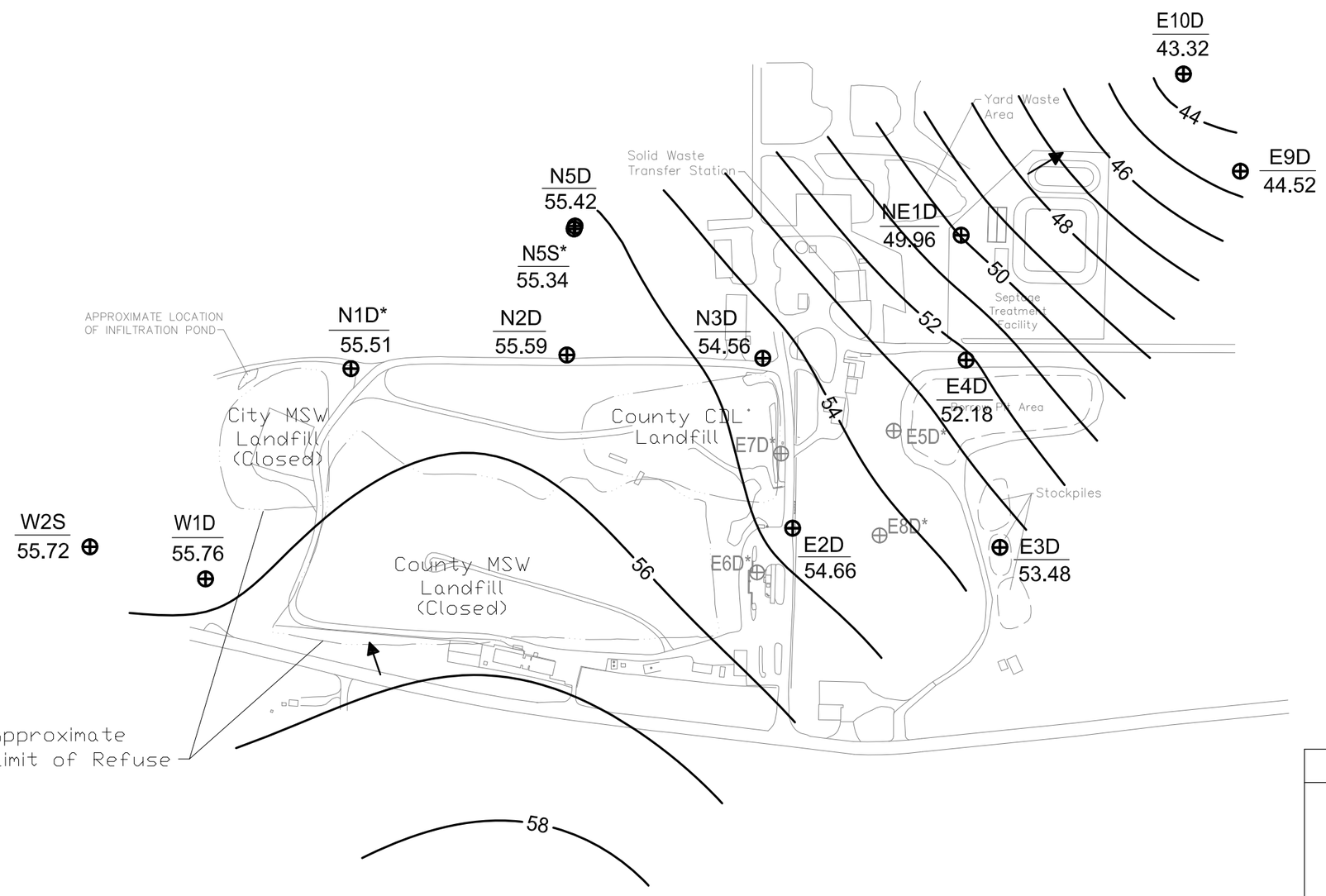
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	JULY 2017 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 8A
CAD FILE Figure 8A	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND	
E3D / 53.48	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring
NM	Not Measured

Notes: NE1D was not accessable during the quarter.

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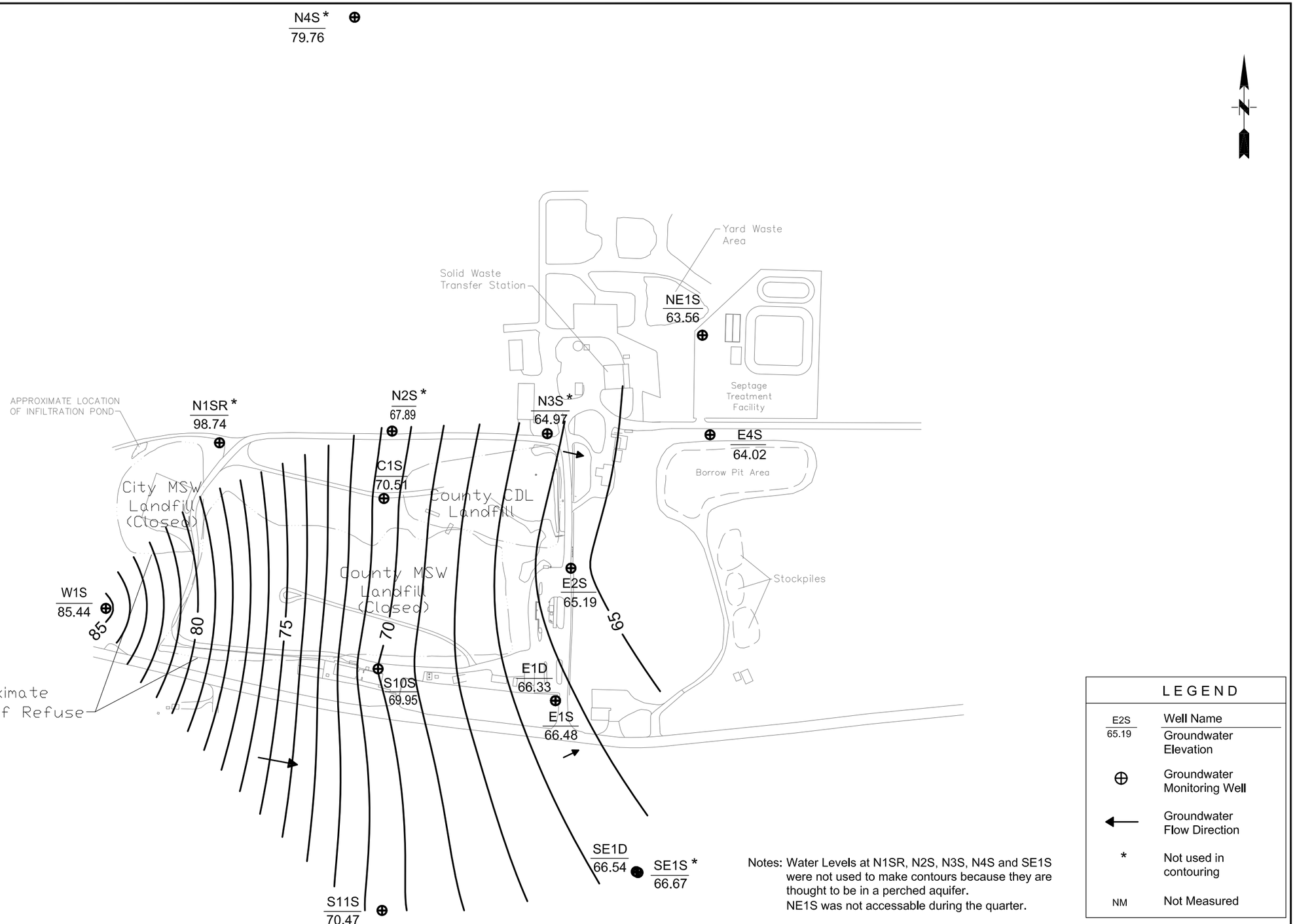
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	JULY 2017 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 8B
CAD FILE Figure 8B	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

Notes: Water Levels at N1SR, N2S, N3S, N4S and SE1S were not used to make contours because they are thought to be in a perched aquifer.
NE1S was not accessable during the quarter.

LEGEND

E2S 65.19	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring
NM	Not Measured

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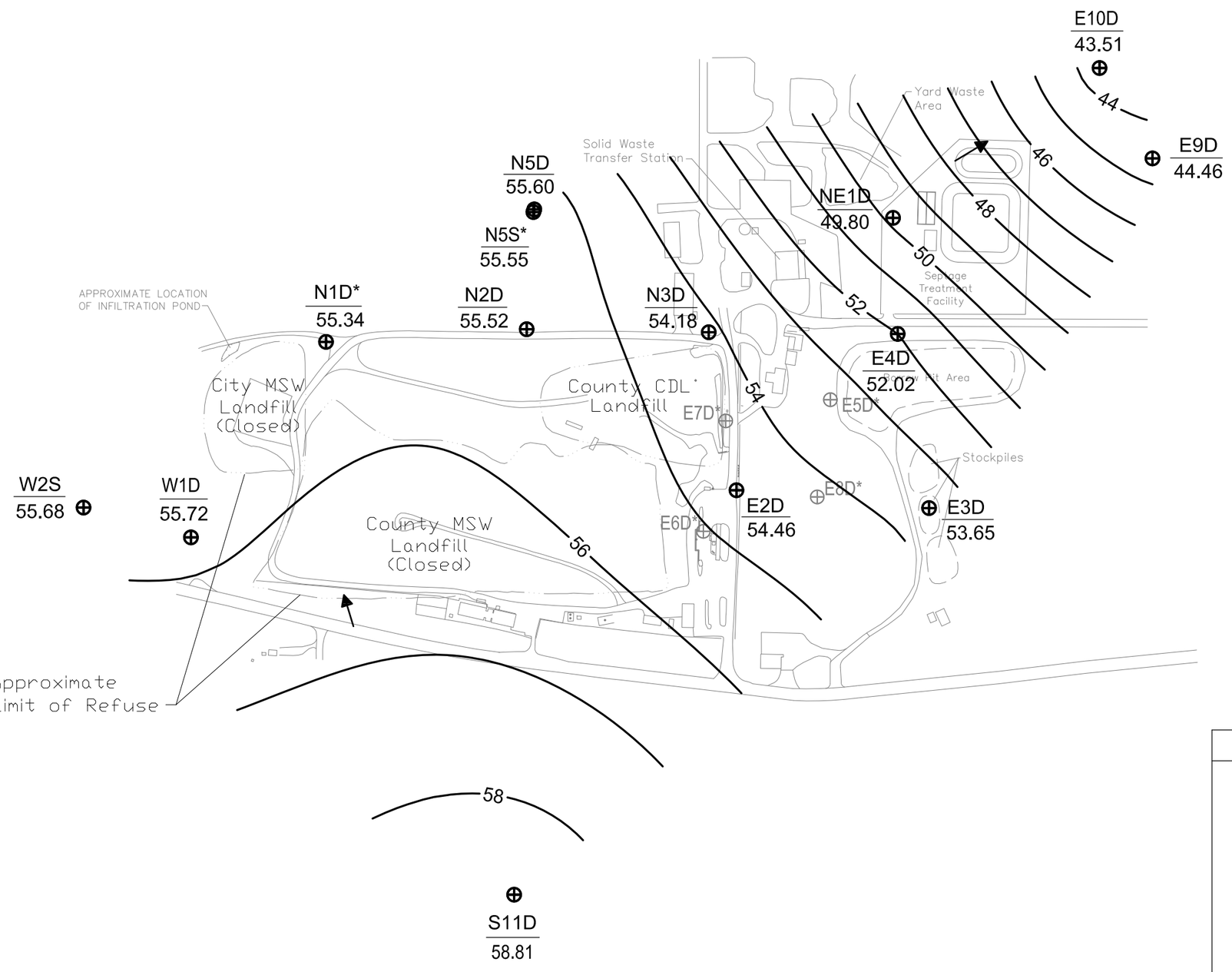
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	OCTOBER 2017 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 9A
CAD FILE Figure 9A	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND

E3D / 53.65	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	VOC Assessment Groundwater Well
←	Groundwater Flow Direction
*	Not used in contouring

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2405 140th Avenue NE, Suite 107
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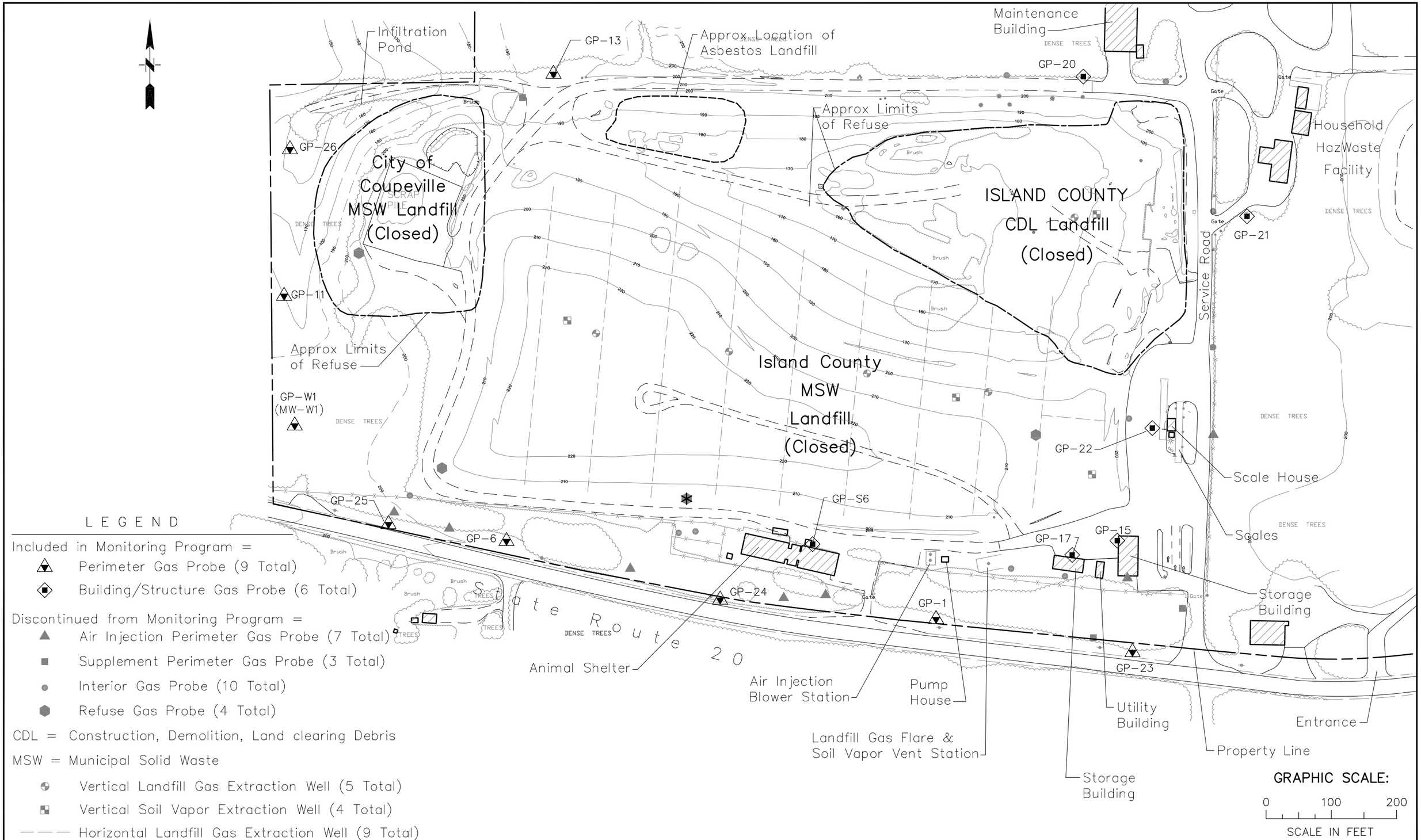
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY S.G.	OCTOBER 2017 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE FEBRUARY 2018
SCALE 1" = 300'	CHK BY D.V.		FIGURE 9B
CAD FILE Figure 9B	APP BY G.H.		



LEGEND

Included in Monitoring Program =

- Perimeter Gas Probe (9 Total)
- Building/Structure Gas Probe (6 Total)

Discontinued from Monitoring Program =

- Air Injection Perimeter Gas Probe (7 Total)
- Supplement Perimeter Gas Probe (3 Total)
- Interior Gas Probe (10 Total)
- Refuse Gas Probe (4 Total)

CDL = Construction, Demolition, Land clearing Debris

MSW = Municipal Solid Waste

- Vertical Landfill Gas Extraction Well (5 Total)
- Vertical Soil Vapor Extraction Well (4 Total)
- Horizontal Landfill Gas Extraction Well (9 Total)

GRAPHIC SCALE:

0 100 200

SCALE IN FEET

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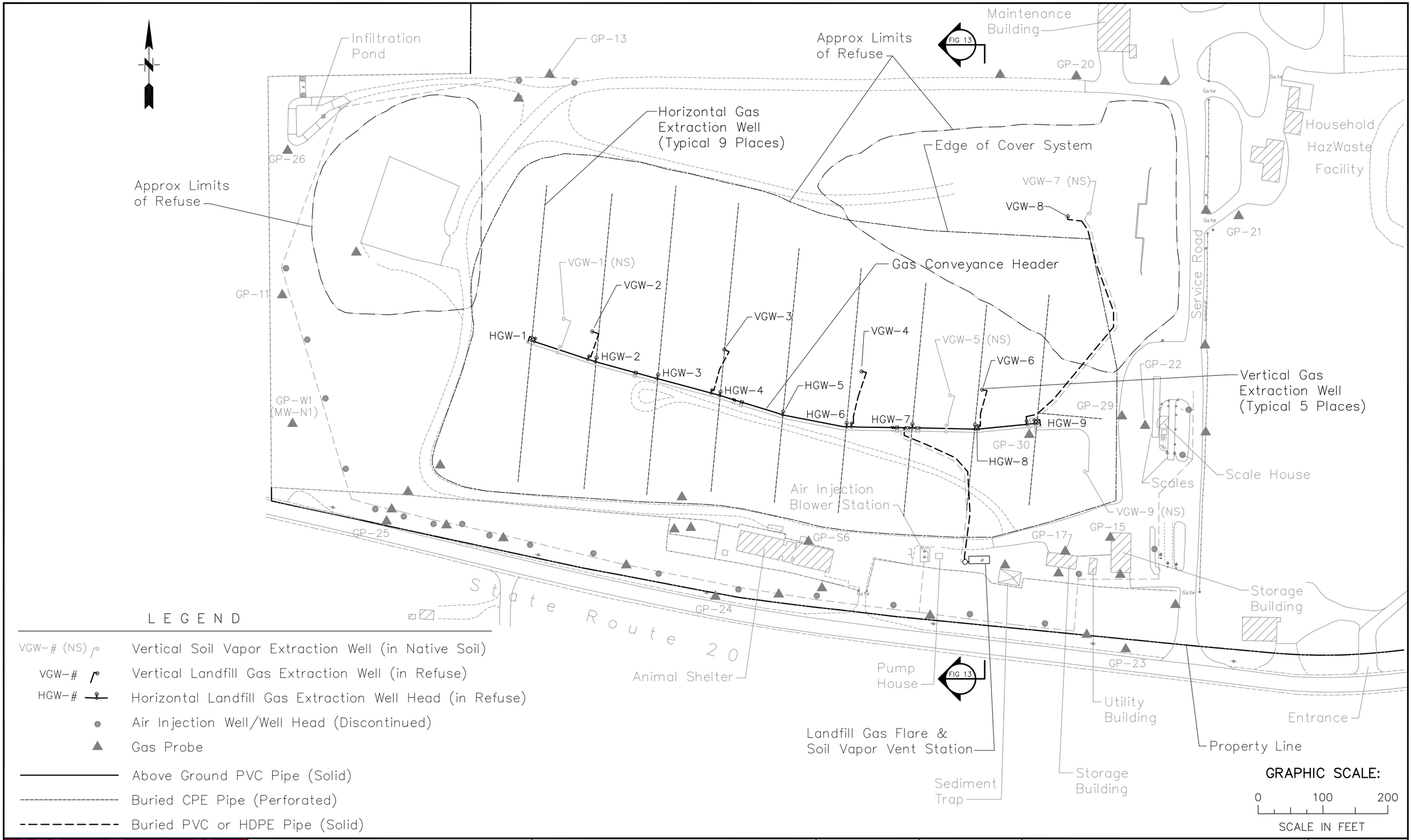
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY T.M.	LANDFILL GAS PROBE MONITORING NETWORK	DATE FEBRUARY 2018
SCALE AS SHOWN	CHK BY G.H.		FIGURE 10
CAD FILE Figure 10	APP BY D.V.		



LEGEND

- VGW-# (NS) — Vertical Soil Vapor Extraction Well (in Native Soil)
- VGW-# — Vertical Landfill Gas Extraction Well (in Refuse)
- HGW-# — Horizontal Landfill Gas Extraction Well Head (in Refuse)
- Air Injection Well/Well Head (Discontinued)
- Gas Probe
- Above Ground PVC Pipe (Solid)
- Buried CPE Pipe (Perforated)
- Buried PVC or HDPE Pipe (Solid)

GRAPHIC SCALE:

0 100 200

SCALE IN FEET

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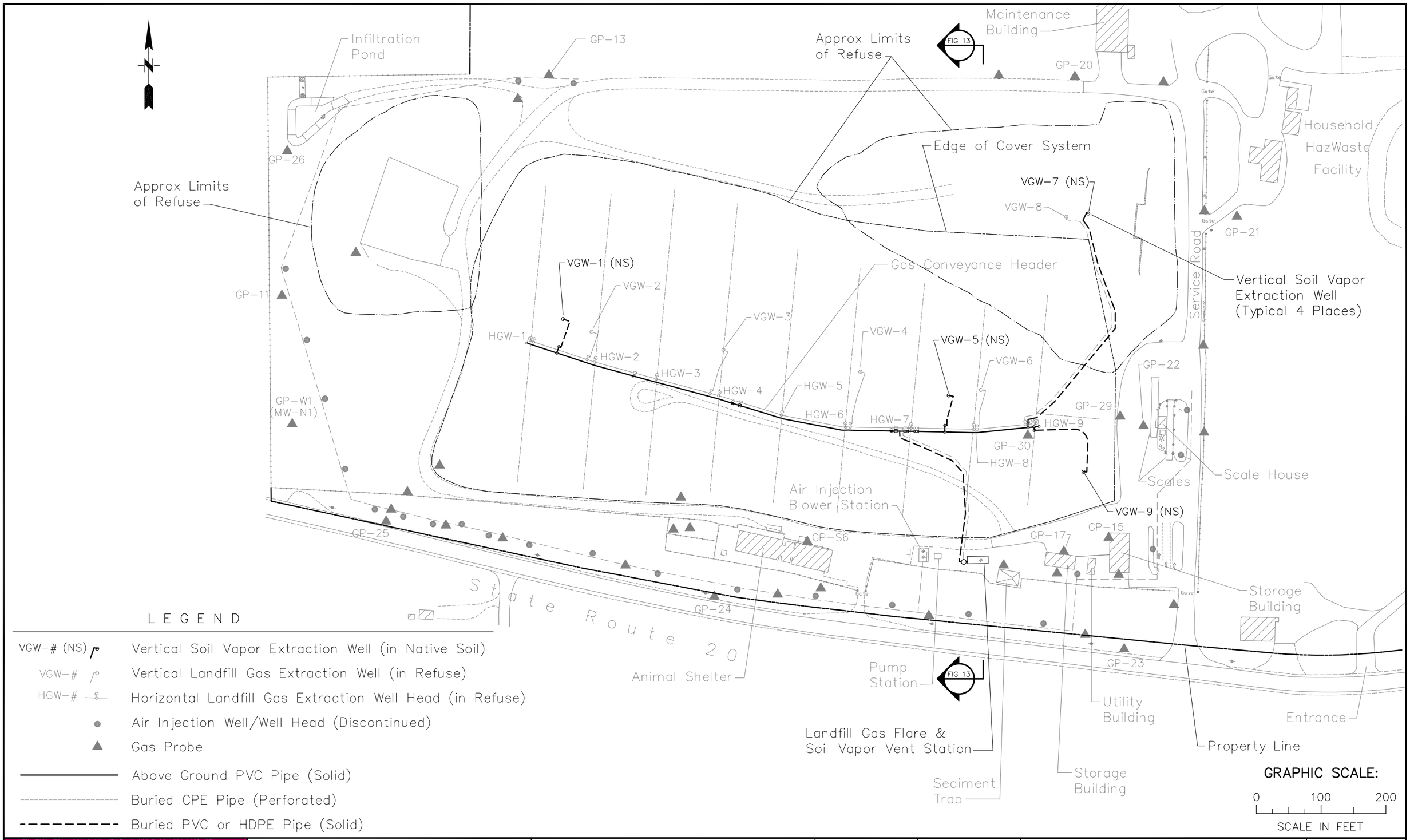
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY T.M.	LANDFILL GAS EXTRACTION SYSTEM	DATE FEBRUARY 2018
SCALE AS SHOWN	CHK BY G.H.		FIGURE 11
CAD FILE Figure 11	APP BY D.V.		



LEGEND

VGW-# (NS)	Vertical Soil Vapor Extraction Well (in Native Soil)
VGW-#	Vertical Landfill Gas Extraction Well (in Refuse)
HGW-#	Horizontal Landfill Gas Extraction Well Head (in Refuse)
	Air Injection Well/Well Head (Discontinued)
	Gas Probe
	Above Ground PVC Pipe (Solid)
	Buried CPE Pipe (Perforated)
	Buried PVC or HDPE Pipe (Solid)

GRAPHIC SCALE:

0 100 200

SCALE IN FEET

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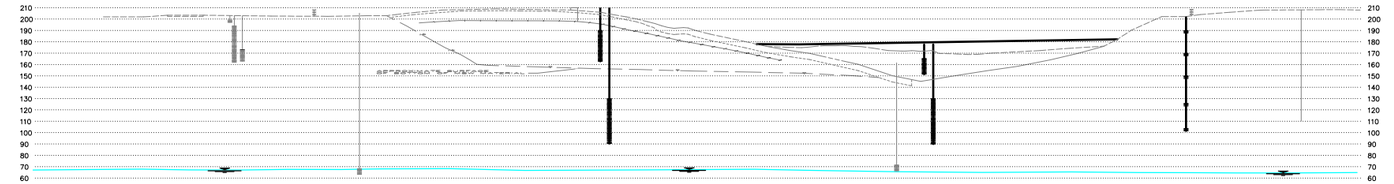
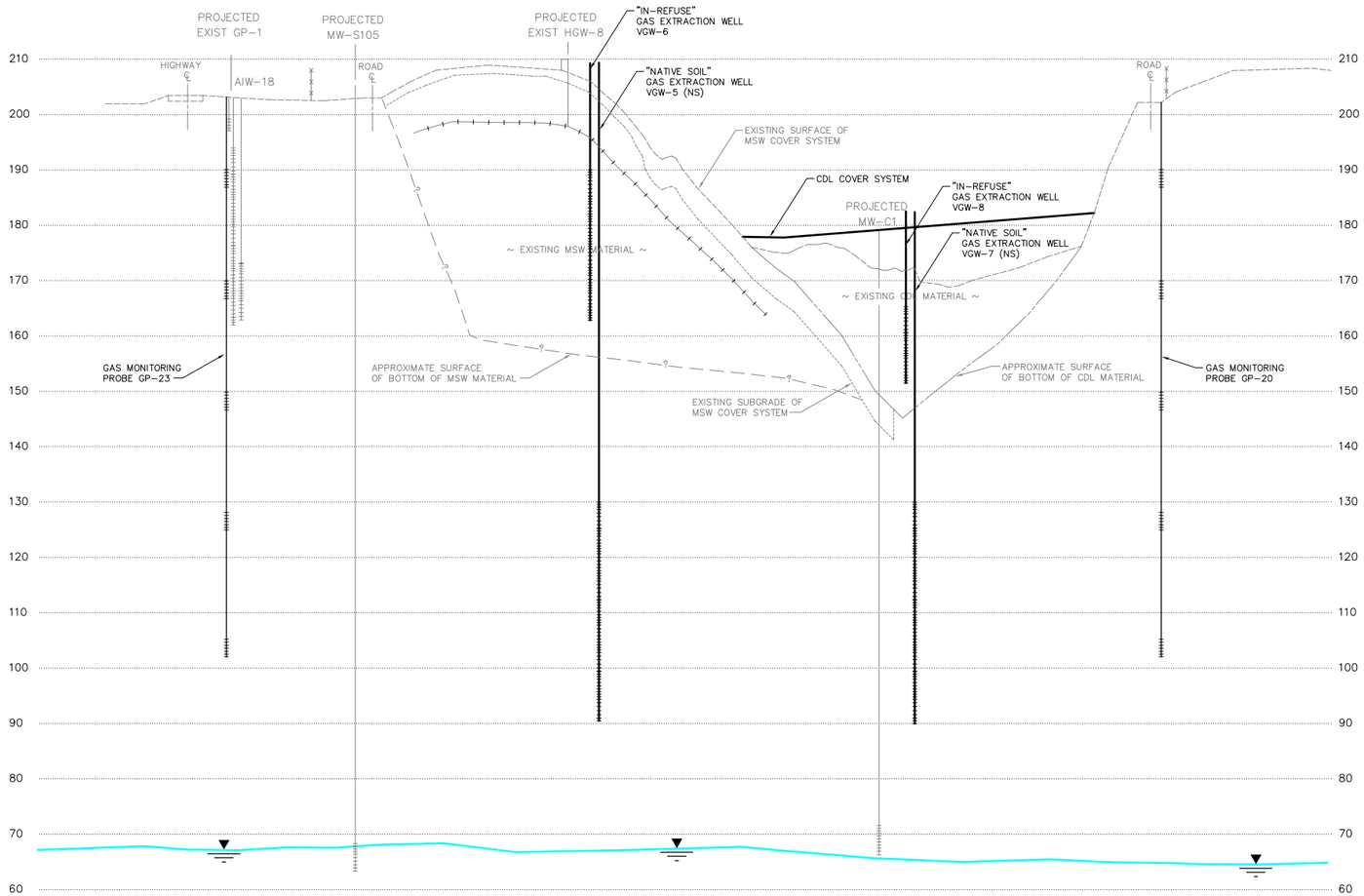
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY T.M.	SOIL VAPOR EXTRACTION SYSTEM	DATE FEBRUARY 2018
SCALE AS SHOWN	CHK BY G.H.		FIGURE 12
CAD FILE Figure 12	APP BY D.V.		



VIEW LOOKING WEST



LEGEND

GP-1 = GAS PROBE
AIW-18 = AIR INJECTION WELL
GEW-9 = GAS EXTRACTION WELL
MW-S105 = GROUNDWATER MONITORING WELL

GRAPHIC SCALE:

0 100 200

HORIZ. SCALE IN FEET

0
20
40

VERT. SCALE IN FEET

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(425) 746-4600 FAX: (425) 746-6747

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ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04207033.10	DES BY L.L.	CROSS SECTION THRU MSW AND CDL LANDFILLS SHOWING EXTRACTION SYSTEMS	DATE FEBRUARY 2018
SCALE AS SHOWN	CHK BY G.H.		FIGURE 13
CAD FILE Figure 13	APP BY D.V.		

Figure 14. Water Removed from Stormwater Pump Station
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

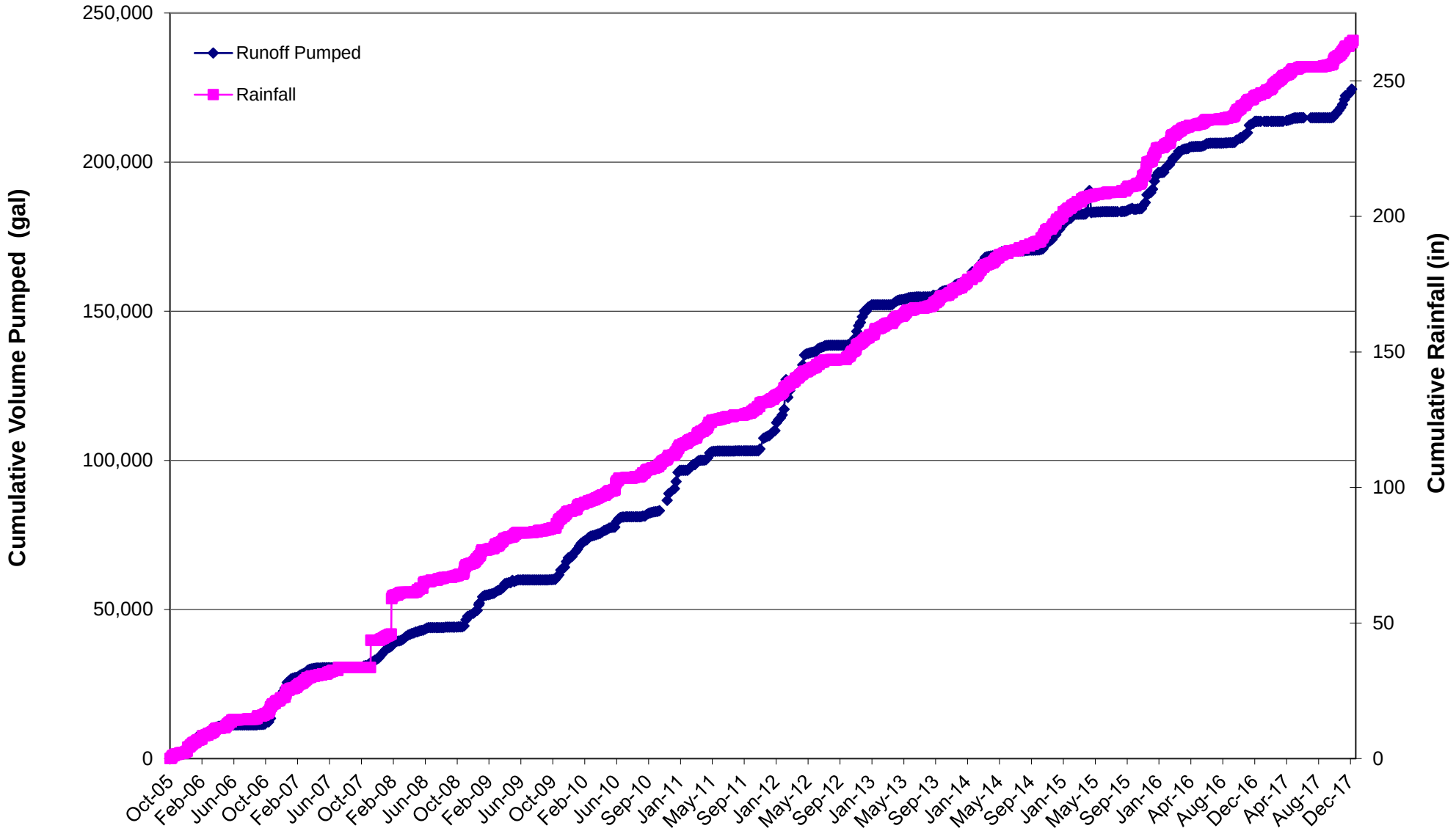
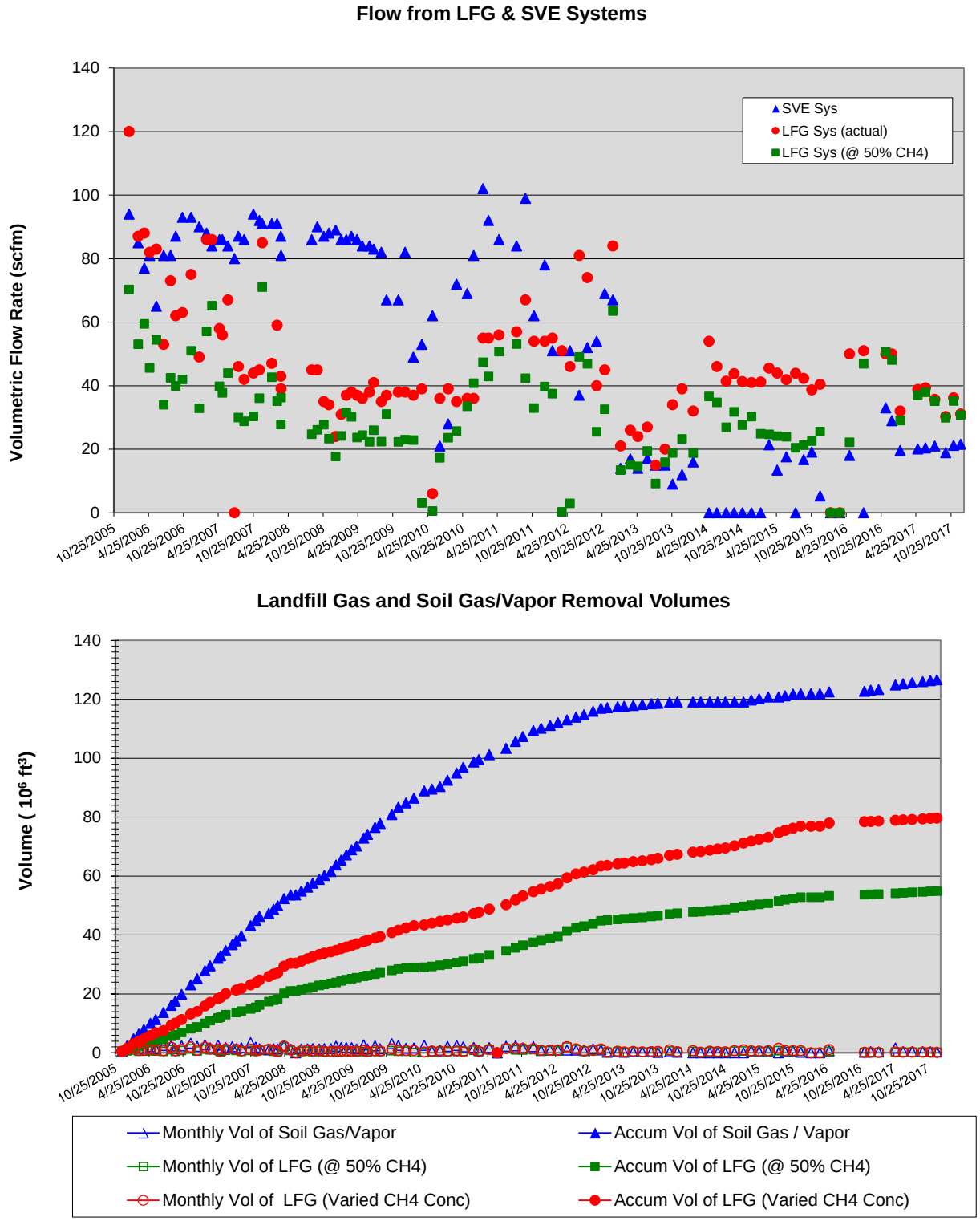


Figure 15. Flow Rates and Removal Volumes for LFG and SVE Systems
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



APPENDIX A

2017 FIELD DOCUMENTATION

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

January 30, 2017

File No. 04207033.10

Subject: **First Quarter 2017 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: January 23-27 & March 2, 2017
Personnel: Sam Graber & Brian McMullen

NOTES/SAMPLING DECODING:

- Duplicate samples were taken at monitoring wells C1S and N3D.
- Sample locations N5D, N5S, N2D, N2S, W2S & WR1 had to be resampled on March 2nd for VOCs due to a lab error that resulted in expired hold times for the original samples.
- Water level elevations were measured at monitoring wells W1S on January 24th and N4S on January 26th, 2016.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at monitoring wells E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
1/25/2017	0117-01	DOT
1/24/2017	0117-02	E3D
1/25/2017	0117-03	E4S
1/25/2017	0117-04	E4D
1/25/2017	0117-05	STP
1/24/2017	0117-06	NE1S
1/24/2017	0117-07	NE1D
1/26/2017	0117-08	N5D
3/2/2017	0317-08	N5D
1/26/2017	0117-09	N5S
3/2/2017	0317-09	N5S
1/25/2017	0117-10	S11D
1/25/2017	0117-11	S11S
1/25/2017	0117-12	S10S
1/24/2017	0117-13	DNR

1/24/2017	0117-14	W1D
1/23/2017	0117-15	N1D
1/23/2017	0117-16	N1SR
1/26/2017	0117-17	N2D
3/2/2017	0317-17	N2D
1/26/2017	0117-18	N2S
3/2/2017	0317-18	N2S
1/24/2017	0117-19	C1S
1/23/2017	0117-20	N3D
1/23/2017	0117-21	N3S
1/25/2017	0117-22	E2D
1/25/2017	0117-23	E2S
1/25/2017	0117-24	S7
1/25/2017	0117-25	E1D
1/23/2017	0117-26	E1S
1/27/2017	0117-27	SE1D
1/27/2017	0117-28	SE1S
1/26/2017	0117-29	W2S
3/2/2017	0317-29	W2S
1/26/2017	0117-30	WR1
3/2/2017	0317-30	WR1
1/24/2017	0117-31	C1S (Duplicate)
1/23/2017	0117-32	N3D (Duplicate)
1/25/2017	0117-50	E5D
1/25/2017	0117-51	E6D
1/25/2017	0117-52	E8D
1/26/2017	0117-53	N5D
1/25/2017	0117-54	S10S
1/26/2017	0117-55	N2D
1/26/2017	0117-56	N2S
1/25/2017	0117-57	E1D
1/25/2017	0117-95	E5D
1/25/2017	0117-96	E6D
1/25/2017	0117-97	E7D
1/25/2017	0117-98	E8D
1/27/2017	0117-99	E9D
1/27/2017	0117-100	E10D

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: DOT
Sample ID: 0117-01
Date: 1/25/17
Weather: overcast

DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1140		9.56	685	1.63	7.40	-142	3.28	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: ±C.
Well ID: E3D
Sample ID: 0117-02
Date: 1/24/19
Weather: overcast

150.85 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS:
Refill 11
Discharge 9
Pressure 100
Flow 120 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1540		6.15	609	9.50	7.58	119		
1545		8.50	730	8.38	7.54	115		
1548		9.21	748	8.16	7.48	115		
1551		9.70	761	8.02	7.41	116		
1554		9.70	760	8.00	7.36	116		
1557		9.71	759	7.93	7.32	117		
1600		9.71	758	7.89	7.31	117		
1603	150.87	9.78	761	7.28	7.27	118		
1606		9.79	760	7.08	7.23	118	1.58	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabo
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County LF
Well ID: E45
Sample ID: 0117-03
Date: 1/25/17
Weather: Cloudy 38°F

14.33 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill: 8
Discharge: 7
Pressure: 80 psi
Flow: 225 ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly	125 ml Poly
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH					

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1002	141.33	7.43	710	10.98	7.34	313.8		
1007	141.33	9.83	1048	7.40	6.97	307.9		
1010	141.33	9.74	1075	6.36	6.93	307.0		
1013	141.33	9.71	1119	4.57	6.84	303.0		
1016	141.33	9.74	1122	4.50	6.83	302.6	11.15	
1019	141.33	9.80	1126	4.28	6.82	301.7	6.07	
1022	141.33	9.84	1129	4.20	6.84	301.3	6.02	

Notes / Observations (color, odor, anomalies, etc):
pump turned on @ 1000
Water Clear/colorless
Sample Time: 1025

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Brian McMullen
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207833.10 | Site: Island Co. LF | Well ID: E4D | Sample ID: 0117-04 | Date: 11/25/17 | Weather: Cloudy 38°F

153.46 DTW | TOS | Intake | BOS | Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L | 1L = 0.24 gallons

Refill 8 | Discharge 12 | Pressure 100 | Flow 125ml/min

One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1058		7.53	622	10.05	7.86	254.2		
1103		9.18	600	8.89	7.28	251.6	10.95	
1106		9.22	584	7.65	7.24	97.9		
1109		9.30	570	4.31	7.32	3.7		
1112		9.84	564	3.10	7.44	-22.9	10.36	
1115		9.80	561	2.35	7.45	-43.7		
1118		9.80	560	2.24	7.47	-46.5	8.60	

Notes / Observations (color, odor, anomalies, etc):
Pump Started at 10:56
Clear / Colorless
Sample Time 1120

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: STP
Sample ID: 0117 - 05
Date: 1/25/17
Weather: overcast

DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1445		11.00	564	2.67	7.75	-19.1	17.8	

Notes / Observations (color, odor, anomalies, etc):

DTW @ EID = 137.96

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grado
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 042070337.10
Site: E.C.
Well ID: NE15
Sample ID: 0117 - 06
Date: 1/24/17
Weather: Overcast

144.44 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 10
Pressure 35
Flow 90 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1205		8.60	561	3.34	7.53	94		
1210		9.86	675	7.67	7.31	94		
1213		10.99	740	6.91	7.12	96		
1216		11.21	832	6.35	6.91	96		
1219		11.19	847	6.13	6.84	96		
1222		11.19	853	6.12	6.82	95	8.32	
1225		11.22	846	6.08	6.81	94	7.51	

Notes / Observations (color, odor, anomalies, etc):
Large back hoe running near by during VOC sampling. Slight odor in air.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name
Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.L.
Well ID: NE1D
Sample ID: 0117-07
Date: 1/24/17
Weather: overcast

158.07 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 100
Flow 50 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

* time constraint

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1318		8.34	690	7.60	7.11	102		
1323		9.21	688	7.17	6.84	104		
1326		9.60	690	6.72	6.78	103		
1329		10.05	692	6.05	6.72	102		
1332		10.23	690	5.62	6.72	101		
1335		10.25	693	4.77	6.76	97		
1338		10.33	685	4.47	6.79	94		
1341		10.30	684	~~4.38~~ 4.23	6.84	89		
~~1344~~ 1344		10.40	681	3.83 *	6.89	84	2.01	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: T.C.
Well ID: N5D
Sample ID: 0117-08
Date: 1/26/17
Weather: cloudy

149.86 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 15
Discharge 15
Pressure 10D
Flow 80 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1035		6.97	1139	7.90	7.41	124		
1040		8.06	1207	7.20	7.36	127		
1043		8.56	1311	6.22	7.23	129		
1046		8.68	1362	5.25	7.15	129		
1049		8.75	1402	4.23	7.09	129		
1052		8.82	1407	3.88	7.07	128		
1055		8.88	1428	3.42	7.06	127		
1058		8.97	1443	2.80	7.04	126		
1101	149.87	9.05	1453	2.62	7.03	124	2.57	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 0117-53 @ 1101

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: MW5
Sample ID: 0117-09
Date: 1/26/17
Weather: overcast

150.10 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 8.5
Discharge 6.5
Pressure 80
Flow ~~200~~ 120 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
930		8.33	759	2.25	6.40	130		
935		9.29	757	5.05	6.84	127		
938		9.46	757	3.45	6.89	123		
941		9.57	758	2.33	6.93	117		
944		9.60	759	2.10	6.94	113		
947		9.63	756	1.90	6.95	110		
950	150.12	9.64	759	1.85	6.95	107	1.13	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: S110
Sample ID: 0117-10
Date: 1/25/17
Weather: overcast

146.51 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill: 10
Discharge: 10
Pressure: 100
Flow: 300 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1540		9.17	924	9.13	7.62	0		
1545		9.50	926	6.08	7.59	-26		
1548		9.71	927	3.52	7.27	-43		
1551		9.75	924	1.90	7.24	-95		
1554		9.75	925	1.38	7.26	-114		
1557		9.76	921	1.27	7.26	-123		
1600		9.77	929	1.07	7.29	-135	3.21	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04261033.10
Site: I.C.
Well ID: SL15
Sample ID: D117-11
Date: 10/25/17
Weather: overcast

DTW: 134.82
TOS:
Intake:
BOS:
Total Depth:

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS:
Refill: 12
Discharge: 8
Pressure: 75
Flow: 350 mL/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1629		9.30	901	7.52	7.24	-59		
1633		9.10	900	7.34	7.18	-114		
1636		9.58	905	3.28	7.20	-150		
1639		9.76	911	1.07	7.23	-182		
1642		9.75	908	0.54	7.25	-180		
1645		9.74	905	0.33	7.28	-177		
1648		9.76	906	0.25	7.28	-168	1.57	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island CO. LF
Well ID: S10S
Sample ID: 0117-12
Date: 1/25/17
Weather: Cloudy 38°F

136.0 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80psi
Flow 300ml/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1508	136.0	13.61	1261	7.91	7.15	176.8	14.87	
1513	136.0	13.47	1452	1.64	6.56	194.0		
1516	136.0	1348	1432	1.21	6.56	195.2		
1519	136.0	1348	1435	0.99	6.56	195.5	11.37	
1522	136.0	1347	1437	0.96	6.56	196.0		
1525	136.0	1345	1436	0.95	6.56	196.1		
1528	136.0	13.44	1435	0.94	6.56	196.1	11.33	

Notes / Observations (color, odor, anomalies, etc):
1507 pump turned on
Clear / Colorless
Sample Time: 1530
Edge Sample Collected @ well
0117-54

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: R Mcmullen
Printed Name
Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: IC.
Well ID: DNR
Sample ID: 0117 - 13
Date: 1/24/17
Weather: overcast

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1720		8.80	860	2.12	7.14	-79	2.33	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: W1D
Sample ID: 0117-14
Date: 1/24/17
Weather: Cloudy

139.42 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8
Discharge: 7
Pressure: 75
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

DTW @ W1S: 109.72

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
907		3.30	985	8.70	6.21	144		
912		9.28	984	7.61	6.44	132		
915		10.01	983	6.46	6.66	124		
918		10.08	981	3.37	6.91	-31		
921		10.08	980	2.20	7.11	-68		
924		10.11	976	1.40	7.28	-104		
927		10.10	974	1.15	7.35	-113		
930	139.42	10.13	977	0.95	7.38	-124		
933		10.15	975	0.86	7.39	-128	1.23	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: D420703.10
Site: I.C.
Well ID: MW-1D
Sample ID: 0117-15
Date: 1/23/17
Weather: Sunny

136.41 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 8.5
Discharge: 6.5
Pressure: 80
Flow: 250 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1340		8.95	1490	9.12	7.32	99		
1345		8.97	1510	8.79	7.30	97		
1348		8.99	1530	8.12	7.29	96		
1351		9.52	1530	6.84	7.16	95		
1354		10.22	1530	5.51	7.06	94		
1357		10.45	1530	3.50	6.98	12		
1401		10.89	1530	1.75	6.94	-49		
1405		11.09	1530	1.55	6.94	-62	3.04	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: I.C. | Well ID: NISR | Sample ID: 0117-16 | Date: 1/23/17 | Weather: Sunny

91.80 DTW | TOS | Intake | BOS | Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: Refill 3.5 | Discharge 6.5 | Pressure 60 | Flow 250 mL/min

1 ft water = 0.62L | 1L = 0.24 gallons

One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

air getting into sample tubing

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1440		10.20	513	6.71	7.01	-14		
1445		11.06	482	3.89	6.52	12		
1449		11.61	450	2.90	6.14	61		
1451		11.60	452	2.96	6.12	70		
1454		11.59	454	2.81	6.11	77		
1457		11.45	452	2.77	6.08	83		
1500		11.46	454	2.81	6.07	87	1.16	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) _____ (Signature)

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: N2D
Sample ID: 0117-19
Date: 1/26/17
Weather: Sunny

148.36 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 95
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1240		11.92	1227	3.12	6.83	-66		
1245		12.46	1215	1.18	6.70	-80		
1248		12.60	1212	0.99	6.70	-62		
1251		12.58	1220	0.78	6.70	-45		
1254		12.56	1226	0.69	6.69	-38		
1257		12.63	1226	0.63	6.69	-26		
1300		12.66	1219	0.56	6.69	-21	1.10	

Notes / Observations (color, odor, anomalies, etc):

N45 DTW: 123.06

Split taken as 0117-55 @ 1300

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: IL.
Well ID: N25
Sample ID: 0117-18
Date: 1/26/17
Weather: Sunny

137.21 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 11
Discharge 4
Pressure 90
Flow 60 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1350		12.22	1398	6.27	6.68	75		
1355		11.94	1520	5.48	6.56	82		
1358		11.94	1560	5.22	6.54	85		
1401		11.96	1570	5.14	6.53	87		
1404		11.93	1570	5.08	6.52	89		
1407		11.91	1570	5.09	6.52	91	6.65	
1410	137.48	11.89	1580	5.10	6.51	92	7.19	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 0117-56 @ 1410

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04707033.10 | Site: I.C. | Well ID: CIS | Sample ID: 0117-19 | Date: 1/24/17 | Weather: overcast

90.43 DTW | TOS | Intake | BOS | Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill: 9 | Discharge: 6 | Pressure: 65 | Flow: 350 mL/min

One Well Volume (liters): | Total Volume Bailed (liters): | Other: | Flow Setting:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 0117-31 @ 1100

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1025		10.79	1228	7.55	6.89	60		
1030		11.62	1219	5.81	6.52	65		
1033		12.09	1211	3.40	6.31	69		
1036		12.11	1218	3.38	6.31	71		
1039		12.13	1222	3.34	6.31	72		
1042		12.20	1226	3.31	6.30	74		
1045	90.32	12.19	1234	3.30	6.30	76	1.35	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Brazo
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: N3D
Sample ID: ~~0117~~ 0117 - 20
Date: 1/23/17
Weather: Sunny

150.34 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 9
Discharge 6
Pressure 80
Flow 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1207		8.90	668	8.43	7.04	95		
1202		11.21	652	7.01	6.72	99		
1205		12.52	643	6.20	6.48	106		
1208		1225	643	5.90	6.39	108		
1211		12.12	645	4.20	6.45	102		
1214		12.03	648	3.84	6.54	96		
1217		11.94	653	3.64	6.70	85	1.63	

Notes / Observations (color, odor, anomalies, etc):

Duplicate as 0117-32 @ 1245

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: N35
Sample ID: 0117-21
Date: 1/23/17
Weather: Sunny

140.05 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill 10
Discharge 5
Pressure 80
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1103		12.27	936	7.43	6.44	105		
1108		11.89	982	6.01	7.56	95		
1111		11.80	1094	4.12	6.70	89		
1114		11.82	1071	4.82	6.72	88		
1117		11.84	1065	5.41	6.73	86		
1120		11.80	1053	5.86	6.75	86		
1123	140.20	11.73	1064	5.96	6.77	88	1.33	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Bratos
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: Island CO LF | Well ID: E2D | Sample ID: 0117-22 | Date: 1/25/17 | Weather: Cloudy 38°F

148.15 | Bm 137.69 DTW | TOS | Intake | BOS | Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill 10.5 | Discharge 9.5 | Pressure 100 | Flow 100ml/min

One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1325		10.38	1404	8.37	7.03	128.8	8.65	
1330		11.91	1610	2.65	6.47	174.9		
1333		12.08	1756	2.80	6.53	174.2		
1336		12.08	1733	2.00	6.49	178.5	9.11	
1339		12.08	1741	1.64	6.48	181.0		
1342		12.07	1743	1.61	6.48	181.1		
1345		12.08	1743	1.61	6.48	181.2	10.85	

Notes / Observations (color, odor, anomalies, etc):

1324 pump turned on

Clear/Colorless

Sample Time: 1350

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B Mamuren
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island CO. LF
Well ID: E25
Sample ID: 0117-23
Date: 1/25/17
Weather: Cloudy 38°F

137.69 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 90psi
Flow 250ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1239		10.98	1283	6.16	6.68	50.2	12.71	
1244		11.45	1361	3.57	6.64	96.9		
1247		11.48	1358	1.28	6.62	118.7		
1250		1150	1358	1.20	6.62	122.0	8.85	
1253		11.50	1358	1.09	6.62	127.3		
1256		11.50	1358	1.08	6.62	127.9		
1259		11.51	1359	1.07	6.62	128.3	7.75	

Notes / Observations (color, odor, anomalies, etc):
1222 pump turned on
Clear/Colorless
Sample Time: 1300

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04 207033.10
Site: Island Co. LF
Well ID: S7
Sample ID: 0117-24
Date: 1/25/17
Weather: Cloudy 38°F

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: MP-20 (YSI)

DTW: ____
TOS: ____
Intake: ____
BOS: ____
Total Depth: ____

CONTROL SETTINGS:
Refill: ____
Discharge: ____
Pressure: ____
Flow: ____

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters): ____
Total Volume Bailed (liters): ____
Other: ____
Flow Setting: ____

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1433	—	5.76	797	7.51	7.68	167.3	5.93	

Notes / Observations (color, odor, anomalies, etc):
Pump turned on 1423 let run for 10 min before collecting Sample

Sample Time 1435

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island CO. LF
Well ID: E1D
Sample ID: 0117-25
Date: 1/25/17
Weather: Cloudy 38°F

137.96 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80 psi
Flow 300ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1556		9.32	1431	9.53	7.07	175.4	0.94	
1601		11.22	1732	3.27	6.79	181.8		
1604		11.24	1730	3.98	6.82	185.3		
1607		11.17	1741	2.04	6.76	175.2	2.61	
1610		11.07	1758	0.94	6.72	164.5		
1613		11.08	1755	0.92	6.72	163.4		
1616		11.07	1754	0.90	6.72	162.2	4.18	

Notes / Observations (color, odor, anomalies, etc):
1555 pump turned on
Clear / Colorless
Sample Time: 1620
Edge Split Sample Collected at Well 0117-57

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B Macmullen
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: EIS
Sample ID: 0117-26
Date: 1/23/17
Weather: Sunny

138.26 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 75
Flow 250 mL/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1548		10.29	1140	8.45	6.84	98		
1553		9.81	1150	7.53	7.00	97		
1556		9.93	1154	7.35	7.00	89		
1602		8.98	1150	7.42	6.95	90		
1605		9.94	1144	7.07	6.38	92		
1608		9.62	1154	7.03	6.37	93		
1611		9.12	1150	6.98	6.35	94		
1614		8.59	1146	6.92	6.33	95		
1617	138.30	8.43	1141	7.03	6.75	98	1.68	

Notes / Observations (color, odor, anomalies, etc):
BIS1 sample collected here.
Very slow sample

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: SE1D
Sample ID: 0117-27
Date: 1/27/17
Weather: cloudy

139.90 DTW *
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 8
Discharge 7
Pressure 40
Flow 250 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
923		7.45	954	8.29	6.43	137		
928		8.39	949	6.21	6.82	102		
931		9.34	945	4.93	7.09	98		
934		9.34	940	3.25	7.13	23		
937		9.42	937	2.32	7.20	-54		
940	140.73	9.44	933	1.80	7.25	-73		
943		9.44	938	1.35	7.31	-95		
946		9.45	936	1.16	7.34	-102	4.78	

Notes / Observations (color, odor, anomalies, etc):

* WL meter started going off at 134.85 at first, moved down.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: SEIS
Sample ID: 0117-28
Date: 1/27/17
Weather: Sunny

139.85 DTW
/ TOS
/ Intake
/ BOS
/ Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 20 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 75 | Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1015		8.28	954	8.10	7.47	-39		
1020		8.47	847	7.31	7.37	-3		
1023		9.55	848	6.85	7.21	7		
1026		9.70	846	5.70	7.13	15		
1029		9.75	851	5.23	7.09	25		
1032		9.75	846	4.66	7.08	31		
1035		9.75	853	4.46	7.08	36	1.34	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 042070033.10
Site: L.C.
Well ID: W25
Sample ID: 0117-29
Date: 1/26/17
Weather: cloudy

148.41 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS:
Refill: 9
Discharge: 6
Pressure: 90
Flow: 150 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1625		9.07	923	8.98	7.18	125		
1630		9.31	929	8.33	6.99	129		
1633		9.48	947	7.21	6.77	133		
1636		9.46	942	6.93	6.76	133		
1639		9.34	942	6.71	6.77	132		
1642		9.32	944	6.60	6.78	131		
1645	148.45	9.32	939	6.56	6.79	131	2.10	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: WR1
Sample ID: 0117-30
Date: 1/26/17
Weather: cloudy

DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1545		9.42	880	6.16	7.36	119	~~3.54~~ 3.54	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Brabec
Printed Name

Signature

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/23/17					
Time	1015					
Weather (sky or precip, temp)	sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1393	3.99	6.94			
Post Cal Reading	1413	4.01	7.00	8.92	794, 100, 21.0, 077	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEC					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	~~Hot~~ CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/24/17					
Time	800					
Weather (sky or precip, temp)	cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1400	4.11	7.10			
Post Cal Reading	1417	4.01		11.23	801, 101, 22.9, 0.91	
Descrepancy	pH 7 failed to calibrate.					
Calib. Successful?	Yes					
Calibration by	SEZ					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	ICSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/25/17					
Time	800					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1420	4.10	7.11			
Post Cal Reading	1413	4.00	7.00	11.38	802.1, 982, 221, 23	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEB					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	JL.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/25/17					
Time	0930					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1400	4.11	7.52			
Post Cal Reading	1413	4.01	7.00	11.30	998 2, 11.1, 851	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	± L.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/26/17					
Time	900					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1404	4.24	7.14			
Post Cal Reading	1413	4.01	-	10.11	797, 101, 21.9, 1.79	
Descrepancy	See below					
Calib. Successful?	pH 7 failed to cal. for pH 7.					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	1/27/17					
Time	800					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1422	4.05	7.15			
Post Cal Reading	1413	4.01		10.03	794, 101, 21.9, 1.52	
Descrepancy	See below					
Calib. Successful?	pH 7 failed to cal.					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 042070033.10
Site: Ex. L.
Well ID: ESD
Sample ID: 0117-GS
Date: 1/25/17
Weather: overcast

145.23 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS:
Refill: 9
Discharge: 11
Pressure: 100
Flow: 100 mL/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly		125 ml Poly	
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3 x6	1000 ml Amber	
125 ml NaOH							

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0940		9.42	951	8.03	6.80	149		
0945		9.91	982	6.08	6.90	21		
0948		10.46	1017	4.99	7.03	-37		
0951		10.48	1044	3.38	7.02	-102		
0954		10.55	1059	2.43	7.01	-119		
0957	145.23	10.58	1070	1.73	7.00	-129		
1000		10.61	1078	1.54	7.00	-133	2.69	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 0117-50 @ 1000

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: I.C. | DTW: 148.19 | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E6D | TOS: | Refill: 10 | One Well Volume (liters): | Other:

Sample ID: 0117-96 | Intake: | Discharge: 10 | Flow Setting:

Date: 1/25/17 | BOS: | Pressure: 100 | Total Volume Bailed (liters):

Weather: Overcast | Total Depth: | Flow: 75 mL/min

Filtered? Y (N) | Locked? Y (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1345		12.28	693	3.78	7.47	-113		
1350		12.82	686	2.52	7.39	-133		
1353		13.31	680	1.44	7.32	-165		
1356		13.37	676	1.16	7.31	-170		
1359		13.39	678	0.99	7.30	-173		
1402	149.10	13.37	680	0.90	7.30	-175		
1405		13.44	677	0.82	7.30	-176	1.35	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 0117-51 @ 1405

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 042070033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: I.C. | DTW: 146.09 | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E70 | TOS: | Refill: 10 | One Well Volume (liters): | Other:

Sample ID: 0117-97 | Intake: | Discharge: 10 | Flow Setting:

Date: 1/25/17 | BOS: | Pressure: 100 | Total Volume Bailed (liters):

Weather: overcast | Total Depth: | Flow: 75 mL/min

Filtered? Y (N) | Locked? Y (N) | * Water in Protector? (Y) N | ** Damage? (Y) N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1248		12.02	1216	6.74	7.09	30		
1253		12.94	1380	3.90	6.72	24	1.59	
1256		13.13	1520	2.50	6.55	-2		
1259		13.25	1650	1.20	6.38	-48		
1302		13.32	1670	1.03	6.36	-57	1.21	
1305	146.12	13.32	1690	0.82	6.35	-71		
1308		13.31	1690	0.74	6.35	-73	1.36	

Notes / Observations (color, odor, anomalies, etc):

* Flushmount full of water.

** Flushmount cap cracked.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gaber (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.C.
Well ID: E8D
Sample ID: 0117 - 98
Date: 1/25/17
Weather: Overcast

148.91 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 One Well Volume (liters) Other :
Discharge 10 Flow Setting :
Pressure 100 Total Volume Bailed (liters)
Flow 100 mL/min

Filtered? Y (N) Locked? Y N Water in Protector? Y N Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1043		7.95	568	8.35	7.52	41		
1050		8.76	563	7.29	7.24	40		
1053		9.13	569	4.10	7.06	7		
1056		9.30	567	2.70	7.02	-1		
1059		9.42	567	1.70	7.00	-13		
1102		9.46	569	1.42	7.00	-26		
1105	149.20	9.51	571	1.23	7.00	-83	2.91	

Notes / Observations (color, odor, anomalies, etc):
Split taken as 0117 - 52 @ 1105

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: TL.
Well ID: E9D
Sample ID: 0117-99
Date: 1/27/17
Weather: sunny

161.73 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 9
Discharge: 11
Pressure: 100
Flow: 120 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1147		8.00	600	0.29	7.70	93		
1152		8.62	598	5.55	7.68	-10	7.11	
1155		9.13	598	3.70	7.63	-134		
1159	164.95	9.25	588	2.50	7.62	-191	45.7	
1201		9.25	581	2.04	7.63	-208		
1204	165.65	9.28	578	1.65	7.64	-225	35.8	
1207		9.33	568	1.38	7.65	-235	19.0	
1210		9.36	570	1.24	7.66	-241	17.0	
1213		9.41	560	1.08	7.66	-248	14.2	
1216		9.43	561	1.00	7.67	-251	13.6	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gratzer
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: I.L.
Well ID: E10D
Sample ID: 0117-100
Date: 1/27/17
Weather: Sunny

162.99 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill 9.5
Discharge 10.5
Pressure 105
Flow 100 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly		125 ml Poly	
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3 x6	1000 ml Amber	
125 ml NaOH							

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300		7.24	925	9.74	7.56	-76	6.29	
1305		8.77	956	8.36	7.51	-53		
1308		9.07	974	7.67	7.48	-44		
1311		9.16	995	5.65	7.44	-65		
1314		9.13	992	3.71	7.40	-127	11.2	
1317		9.02	993	3.15	7.38	-135	10.4	
1320		8.94	982	2.82	7.37	-143		
1323	162.97	8.96	972	2.34	7.34	-149	8.01	
1326		8.77	978	2.26	7.33	-150	7.74	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) _____ (Signature)

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: Island Co LF | Well ID: MW25 | Sample ID: MW17-29 | Date: 3/2/17 | Weather: overcast

148.23 DTW
____ TOS
____ Intake
____ BOS
____ Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill: 9 | Discharge: 6 | Pressure: 30 | Flow: 150 mL/min

One Well Volume (liters): ____ | Total Volume Bailed (liters): ____ | Other: ____ | Flow Setting: ____

Filtered? Y (N) | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
855		9.21	938	8.41	7.25	264.2		
900		9.50	956	7.35	7.01	261.2		
903		9.56	957	7.13	6.98	258.1		
906	148.31	9.55	957	7.06	6.98	255.6		
909		9.55	957	6.96	6.99	252.1		
912		9.55	957	6.95	6.99	250.3		
915	148.31	9.59	956	6.91	6.99	248.2	1.40	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Baker (Printed Name) ____ (Signature)

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co LF
Well ID: WR1
Sample ID: 0317-30
Date: 3/2/17
Weather: overcast

DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1450		6.64	880	3.77	7.39	215.4	1.58	

Notes / Observations (color, odor, anomalies, etc):

Ran pump for 10 minutes prior to sampling

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island Co LF | DTW: 136.66 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: NLS | TOS: | MP-20 | Refill: 11 | One Well Volume (liters): | Other:

Sample ID: D317-18 | Intake: | YSI | Discharge: 4 | Flow Setting:

Date: 3/2/17 | BOS: | Pressure: 95 | Total Volume Bailed (liters):

Weather: overcast | Total Depth: | Flow: 60 mL/min

Filtered? Y (N) | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1035		11.36	1148	8.04	7.47	211.7		
1040		11.63	1553	5.78	6.75	225.1		
1043		11.65	1572	5.89	6.74	226.5		
1046		11.66	1578	5.78	6.73	226.8		
1049	137.06	11.64	1581	5.46	6.73	227.2		
1052		11.61	1582	5.36	6.73	227.6		
1055		11.63	1580	5.30	6.73	227.9	2.15	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Lorber (Printed Name) | (Signature)

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co LF
Well ID: N2D
Sample ID: 0317 - 17
Date: 3/2/17
Weather: Overcast

148.13 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 35
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1108		12.12	1242	1.17	6.93	219.4		
1113		12.15	1230	0.77	6.93	216.2		
1116		12.15	1237	0.64	6.92	214.2		
1119	148.15	12.16	1244	0.54	6.93	211.4		
1122		12.16	1245	0.52	6.93	210.8		
1125		12.16	1246	0.50	6.93	210.1		
1128		12.13	1245	0.46	6.93	208.5	1.59	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Baker
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co LF
Well ID: N5D
Sample ID: 0317-08
Date: 3/2/17
Weather: overcast

149.52 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 15
Discharge: 15
Pressure: 100
Flow: 60 ml/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? (Y) N Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
air bubbles getting into sample tubing.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1207		7.92	1279	9.46	7.63	198.0		
1212		8.61	1345	8.27	7.48	201.7		
1215		8.92	1432	6.11	7.41	203.8		
1218		8.97	1446	5.55	7.38	204.6		
1221		9.03	1469	4.47	7.34	205.3		
1224	149.55	9.08	1477	3.46	7.32	205.4		
1227		9.11	1485	3.38	7.30	205.2		
1230		9.16	1485	3.09	7.30	204.8	1.34	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co LF
Well ID: N55
Sample ID: 0317 - 09
Date: 3/2/17
Weather: overcast

149.72 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 0.5
Discharge 6.5
Pressure 85
Flow 170 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1242		9.52	788	8.08	7.41	175.5		
1247		9.64	765	3.70	7.32	180.5		
1250		9.74	763	1.68	7.31	181.9	1.54	
1253	149.74	9.76	764	1.24	7.30	182.3		
1256		9.78	764	1.09	7.30	182.5		
1259		9.77	765	0.99	7.30	182.5		
1302		9.81	765	0.94	7.30	182.4	1.39	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Corator
Printed Name

Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	3/2/17					
Time	810					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1385	~~4.~~ 4.19	6.86			
Post Cal Reading	1413	4.01	7.00	9.34	803, 99.7, 20.7, 1.4	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / (YSI 556)				MicoTPW / (HACH2000)	
Calibration Location	I.C. CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.09	**TASK NO.**	1,2,3	**DATE**	3-24-17	**PROJECT NAME**	Island County Landfill
TEMP	50	**BARO**	29.98	**WIND**	6 MPH NE	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	4	Project Foreman	12	
			DAILY TOTAL	12	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	12	$222.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	10992	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
0745 Blower # 1	70965	3.2	6.44’	SV	-0.4” H2O	50% Open
0745 Blower # 2	95938	3.7		LFG	1.50” H2O	50% Open

Propane Tank Level	Propane Line PSI
48% Full	12

SUMMARY	0700 SDG travel from Oak Harbor, WA. To Coupeville, WA.
0730 SDG onsite to Monitor the Extraction Wells, and the Perimeter Gas Probes.	
0737 Calibrating the Gem – 2000.	
0805 SDG Monitoring the Gas Probes.	
0927 Monitoring the Extraction Wells	
1132 Completed Monitoring.	
1145 Post Calibration of the Gem – 2000.	
1200 SDG offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 3-24-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.09

WEATHER OBSERVATIONS

Wind Speed: 6 MPH Wind Direction: E Barometric Pressure: 29.48" Hg

Air Temperature: 50° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 10992

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
07:37	49.9%	35.0%	20.7%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
11:45	49.8	34.9	20.9

NOTES:

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

May 1, 2017

File No. 04207033.10

Subject: **Second Quarter 2017 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: April 24-27
Personnel: Sam Graber & Brian McMullen

NOTES/SAMPLING DECODING:

- Wells NE1S and NE1D were not sampled during this event due to construction taking place on site that temporarily restricted access to these locations.
- Duplicate samples were taken at monitoring wells C1S and N3D.
- Water level elevations were measured at monitoring wells W1S on April 24th and N4S on April 27th, 2016.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at monitoring wells E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
4/24/2017	0417-01	DOT
4/24/2017	0417-02	E3D
4/24/2017	0417-03	E4S
4/24/2017	0417-04	E4D
4/27/2017	0417-05	STP
NS	NS	NE1S
NS	NS	NE1D
4/27/2017	0417-08	N5D
4/27/2017	0417-09	N5S
4/24/2017	0417-10	S11D
4/24/2017	0417-11	S11S
4/26/2017	0417-12	S10S
4/24/2017	0417-13	DNR
4/24/2017	0417-14	W1D
4/24/2017	0417-15	N1D
4/24/2017	0417-16	N1SR

4/26/2017	0417-17	N2D
4/26/2017	0417-18	N2S
4/25/2017	0417-19	C1S
4/24/2017	0417-20	N3D
4/24/2017	0417-21	N3S
4/25/2017	0417-22	E2D
4/25/2017	0417-23	E2S
4/25/2017	0417-24	S7
4/27/2017	0417-25	E1D
4/24/2017	0417-26	E1S
4/25/2017	0417-27	SE1D
4/25/2017	0417-28	SE1S
4/26/2017	0417-29	W2S
4/26/2017	0417-30	WR1
4/25/2017	0417-31	C1S (Duplicate)
4/24/2017	0417-32	N3D (Duplicate)
4/26/2017	0417-50	E5D
4/26/2017	0417-51	E6D
4/26/2017	0417-52	E8D
4/27/2017	0417-53	N5D
4/26/2017	0417-54	S10S
4/26/2017	0417-55	N2D
4/26/2017	0417-56	N2S
4/27/2017	0417-57	E1D
4/26/2017	0417-95	E5D
4/26/2017	0417-96	E6D
4/25/2017	0417-97	E7D
4/26/2017	0417-98	E8D
4/24/2017	0417-99	E9D
4/24/2017	0417-100	E10D

NS: Not Sampled

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: DOT
Sample ID: 0417-01
Date: 4/ 24 /2017
Weather: Sunny 51°F

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Sample Time: 1450

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1449	-	11.49	704	2.82	8.69	-100.3	4.56	-
	—							—

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E3D
Sample ID: 0417-02
Date: 4/ 24 /2017
Weather: Sunny 51°F

150.29 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 11
Discharge 9
Pressure 100 psi
Flow 120 ml/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
Sample Time: 1425

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1357	150.35	12.94	749	8.93	8.34	36.5		0.1 gal
1402		11.81	770	7.99	8.07	47.1	9.92	
1405		11.78	773	7.89	7.98	49.3		0.5 gal
1408		11.66	774	7.89	7.89	51.2		
1411		11.51	774	3.20	7.90	37.2		
1414		11.45	774	2.80	7.90	42.3		1.20 gal
1417	151.40	11.39	775	2.23	7.95	35.4	6.62	1.25 gal
1419	151.40	11.33	775	1.97	7.98	29.8	6.60	1.40 gal
1421	151.40	11.30	775	1.86	7.99	26.2	6.51	1.60 gal

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island Co. Landfill | Meter: CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E45 | 140.85 DTW | MP-20 | Refill 8 | One Well Volume (liters) | Other:

Sample ID: 0417-93 | TOS | YSI | Discharge 7 | Flow Setting:

Date: 4/24/2017 | Intake | Pressure 80psi | Total Volume Bailed (liters)

Weather: Cloudy 50°F | BOS | Flow 225 ml/min

Total Depth

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Sample Time: 1325

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300	141.00	10.79	856	10.02	7.98	7.0	13.02	0.1gal
1305		10.69	1106	4.11	7.48	36.0		
1308		10.67	1142	3.15	7.40	43.6		
1311		10.68	1175	2.59	7.36	48.8		0.8gal
1314	141.05	10.68	1187	2.46	7.35	50.3	10.48	1.0gal
1317		10.72	1199	2.29	7.35	51.3		
1320	141.05	10.77	1205	2.21	7.35	51.8	10.35	1.25gal
1322	141.05	10.79	1205	2.10	7.35	51.9	10.31	1.40gal
1324	141.05	10.79	1206	2.19	7.35	52.0	10.37	1.50gal

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: R McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E4D
Sample ID: 0417-04
Date: 4/ 24 /2017
Weather: Cloudy 50°F

15.295 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8
Discharge: 12
Pressure: 100
Flow: 125 ml/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Sample Time: 1230

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1204		11.13	295	9.87	8.61	-36.8		0.1 g-l
1209		10.71	577	3.65	8.06	-29.8		
1212		10.76	565	2.45	8.35	-65.7		0.4 g-l
1215	153.22	10.76	558	2.02	8.56	-85.6	13.74	
1218		10.68	556	2.11	8.61	-89.1		
1221		10.68	556	2.07	8.65	-95.6		0.6 g-l
1224	153.22	10.74	557	2.04	8.68	-98.6	10.86	0.7 g-l
1226	153.24	10.75	559	1.99	8.67	-101.4	10.31	0.75 g-l
1228	153.26	10.75	559	1.95	8.63	-101.8	9.99	0.80 g-l

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B McMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10	Sampling Method :	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site Island Co. Landfill	DTW	Meter:	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons	
Well ID: STP	TOS	MP-20	Refill		One Well Volume (liters)		Other :
Sample ID: 0417-05	Intake	YSI	Discharge				Flow Setting :
Date: 4/ 27 /2017	BOS		Pressure		Total Volume Bailed (liters)		
Weather: Sunny	Total Depth		Flow				

Filtered? Y N Locked? Y N Water in Protector? Y N Damage? Y N

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1415		11.92	615	5.70	8.65	-33.8	27.1	

Notes / Observations (color, odor, anomalies, etc):

ran pump for 10 minutes prior to sampling.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N5D
Sample ID: 0417-08
Date: 4/ 20 /2017
Weather: overcast

149.53 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 15
Discharge 15
Pressure 100
Flow 30 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1013		8.99	1172	8.59	7.50	154.7		
1018		9.68	1338	5.70	7.53	132.2		
1021		9.71	1372	4.11	7.54	125.6		
1024		9.75	1403	3.50	7.55	120.4		
1027		9.78	1444	3.15	7.55	116.2		
1030		9.84	1452	2.70	7.55	112.1		
1033		9.89	1454	2.36	7.56	107.9		
1036		9.90	1453	2.21	7.57	105.6		
1038		9.93	1453	2.20	7.57	104.0		
1040		9.94	1454	2.02	7.58	101.6	1.54	

Notes / Observations (color, odor, anomalies, etc):

Split taken of 0417-53 @ 1040

N45: 123.56 DTW

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N 55
Sample ID: 0417-09
Date: 4/27/2017
Weather: Sunny

149.76 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 0.5
Discharge 6.5
Pressure 35
Flow 150 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1138		9.69	763	7.69	7.80	93.8		
1143		10.02	744	5.13	7.66	101.0		
1146		10.08	746	3.52	7.65	99.4		
1149		10.13	744	2.55	7.66	95.4		
1152		10.14	748	2.27	7.67	93.2		
1155		10.15	746	2.14	7.67	91.7		
1158		10.14	747	2.11	7.68	90.6	1.70	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: SI1D
Sample ID: 0417 - 10
Date: 4/24/2017
Weather: Sunny

146.10 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10
Discharge 10
Pressure 100
Flow 300 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1702		10.30	919	9.39	7.96	46		
1707		10.27	924	4.37	7.57	35		
1710		10.24	917	2.18	7.51	-37		
1713		10.21	914	1.57	7.45	-87		
1716		10.19	914	1.07	7.50	-110		
1719		10.18	920	0.98	7.51	-118		
1722		10.17	927	0.86	7.54	-127		
1725		10.17	927	0.78	7.56	-137	3.99	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: 5115
Sample ID: 0417-11
Date: 4/24/2017
Weather: Sunny

134.59 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill: 12
Discharge: 8
Pressure: 75
Flow: 350 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1745		10.07	890	9.06	7.66	-7		
1750		10.07	895	6.02	7.61	-111		
1753		10.08	897	1.27	7.57	-155		
1756		10.08	900	0.33	7.52	-216		
1759		10.08	901	0.25	7.52	-206		
1802		10.07	899	0.20	7.51	-196		
1805		10.08	896	0.19	7.51	-189	1.49	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: GW05
Sample ID: 0417-12
Date: 4/26/2017
Weather: overcast

135.73 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9.5
Discharge 5.5
Pressure 20
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1010		14.42	1384	5.68	7.27	148.1		
1015		14.13	1386	3.87	7.15	136.8		
1018		13.93	1389	2.35	7.09	128.5		
1021		14.11	1389	1.74	7.10	124.2		
1024		14.10	1389	1.24	7.10	120.4		
1027		14.16	1389	1.11	7.11	116.7		
1030		14.15	1384	1.07	7.11	114.9	1.71	

Notes / Observations (color, odor, anomalies, etc):
Split taken as 0417-54 @ 1030

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: DNR
Sample ID: 0417-13
Date: 4/24/2017
Weather: Sunny

DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: (MP-20) YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y N (NA)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1915		13.35	343	3.00	7.51	-104	1.51	

Notes / Observations (color, odor, anomalies, etc):

Purged line for 10 minutes

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: WID
Sample ID: 0417 - 14
Date: 4/24/2017
Weather: sunny

139.05 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8 One Well Volume (liters): Other:
Discharge: 7 Flow Setting:
Pressure: 80 Total Volume Bailed (liters):
Flow: 300 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1525		10.64	969	8.53	7.07	66		
1530		10.65	971	7.86	7.01	69		
1533		10.66	973	7.20	6.96	72		
1536		10.63	974	6.62	6.91	75		
1539		10.65	969	3.32	7.25	-10		
1542		10.63	965	2.09	7.39	-84		
1545		10.59	967	2.01	7.52	-112		
1548		10.56	969	0.96	7.64	-132		
1551		10.54	971	0.80	7.67	-146	1.45	

Notes / Observations (color, odor, anomalies, etc):

DTW @ WIS:
109.70

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: NiD
Sample ID: 0417-15
Date: 4/24/2017
Weather: Sunny

136.01 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 8.5 | Discharge 6.5 | Pressure 80 | Flow ~~250~~ 200 ml/min

One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1310		13.05	1457	9.28	7.65	37		
1315		12.60	1478	8.53	7.59	44		
1318		12.11	1491	8.12	7.49	48		
1321		11.63	1510	7.93	7.43	51		
1324		11.89	1510	5.01	7.31	26		
1327		12.09	1510	3.50	7.22	4		
1330		12.20	1510	2.25	7.23	-39		
1333		12.21	1510	1.74	7.24	-48		
1335	136.03	12.22	1510	1.55	7.24	-63	1.85	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabar
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N1S2R
Sample ID: 0417 - 16
Date: 4/24/2017
Weather: Sunny

91.33 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 0.5
Discharge 6.5
Pressure 60
Flow 300 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
Air getting into sample tubing

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1415		11.33	448	6.11	7.25	-16		
1420		11.86	422	4.80	6.82	7		
1423		12.19	400	3.44	6.41	37		
1426		12.19	404	3.44	6.35	45		
1429		12.20	407	3.44	6.30	56		
1432		12.18	406	3.38	6.29	61		
1435		12.21	407	3.35	6.28	65	2.08	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N2D
Sample ID: 0417-17
Date: 4/26/2017
Weather: overcast

147.95 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 90
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1255		12.79	1221	2.27	7.38	92.8		
1300		12.56	1203	1.22	7.34	92.9		
1303		12.53	1209	1.12	7.33	92.5		
1306		12.51	1214	1.05	7.33	92.2		
1309		12.48	1215	0.95	7.32	90.9		
1312		12.47	1216	0.91	7.32	90.2		
1315		12.50	1218	0.90	7.32	89.2	1.64	

Notes / Observations (color, odor, anomalies, etc):

split taken as 0417-55 @ 1315

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
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Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N25
Sample ID: 0417-18
Date: 4/26/2017
Weather: overcast

136.11 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 11
Discharge 4
Pressure 90
Flow 60 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1130		12.80	1122	6.81	7.75	98.7		
1135		12.72	1322	4.75	7.50	105.3		
1138		12.63	1444	3.21	7.31	111.2		
1141		12.51	1530	2.23	7.08	120.4		
1144		12.52	1538	2.03	7.08	118.9		
1147		12.51	1538	1.98	7.08	119.2		
1150		12.57	1538	1.91	7.08	117.0	4.43	

Notes / Observations (color, odor, anomalies, etc):
split tube as 0417-56 @ 1150

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: CIS
Sample ID: 0417-19
Date: 4/25/2017
Weather: Partly cloudy

90.70 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 9
Discharge: 6
Pressure: 60
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Dup collected as 0417-31 @ 1100

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1030		13.03	1159	5.46	6.67	167.4		
1035		12.84	1125	3.51	6.66	141.4		
1038		12.81	1131	3.48	6.68	140.1		
1041		12.77	1137	3.45	6.69	139.6		
1044		12.84	1134	3.36	6.71	137.5		
1047		12.85	1141	3.36	6.73	136.1		
1050		12.79	1143	3.37	6.74	135.3	1.49	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N3D
Sample ID: 0417-20
Date: 4/ 24 /2017
Weather: overcast

149.93 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill: c/
Discharge: 6
Pressure: 90
Flow: 250 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1045		11.61	642	8.06	6.27	97		
1050		11.83	640	6.21	6.33	93		
1053		12.21	638	5.08	6.49	86		
1056		12.37	637	4.52	6.53	82		
1059		12.43	636	3.93	6.56	78		
1102		12.26	646	1.40	7.00	58		
1105		12.27	643	1.21	7.15	13	2.51	

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 0417-32 @ 1110

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N35
Sample ID: 0417-'21
Date: 4/24/2017
Weather: Sunny

139.48 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10 | One Well Volume (liters) | Other:
Discharge 5 | Flow Setting:
Pressure 20 | Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1205		12.41	1066	3.70	7.16	35		
1210		12.63	1061	4.28	7.11	38		
1213		12.20	1055	5.21	7.07	41		
1216		12.10	1043	5.84	7.04	46		
1219		12.09	1055	5.76	7.03	-46		
1222		12.14	1049	5.86	7.05	-48		
1225		12.13	1037	6.01	7.06	-28	2.22	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E20
Sample ID: 0417-22
Date: 4/25/2017
Weather: overcast

147.94 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10.5
Discharge 9.5
Pressure 100
Flow 100 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1212		14.63	1449	7.45	7.66	95.7		
1217		13.50	1448	6.87	7.49	101.5		
1220		12.61	1448	5.57	7.38	106.3		
1223		12.80	1522	5.45	7.35	108.8		
1226		12.97	1586	5.38	7.33	110.6		
1229		12.85	1691	5.18	7.29	111.9		
1232	147.95	12.84	1720	4.99	7.22	113.3	1.56	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E25
Sample ID: 0417-23
Date: 4/25/2017
Weather: Partly cloudy

137.44 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: ~~8~~ 9.5
Discharge: ~~8~~ 5.5
Pressure: 90
Flow: 200 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1345		12.47	1124	7.54	7.60	99.8		
1350		14.05	1204	5.03	7.38	109.1		
1353		13.72	1286	4.75	7.32	109.1		
1356		13.55	1328	4.36	7.25	109.8		
1359		13.17	1362	3.89	7.20	110.5		
1402		13.90	1364	3.10	7.13	111.5		
1405	137.45	13.81	1369	2.92	7.10	111.4	1.68	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ~~57~~ S7
Sample ID: 0417-24
Date: 4/25/2017
Weather: overcast

DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1630		6.98	~~731~~ 731	6.52	7.55	181.2	2.26	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: EID
Sample ID: 0417-25
Date: 4/27/2017
Weather: Sunny

137.78 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 300 ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1255		11.12	1451	7.27	7.75	105.9		
1300		11.42	1545	6.66	7.71	107.2		
1303		11.74	1638	6.04	7.68	110.8		
1306		11.69	1682	5.90	7.66	111.4		
1309		11.63	1701	5.64	7.64	112.3		
1312		11.58	1710	4.10	7.53	113.1		
1315		11.55	1718	3.90	7.43	111.2	1.53	

Notes / Observations (color, odor, anomalies, etc):

split taken as 0417-57 @ 1315

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E15
Sample ID: 0417-26
Date: 4/24/2017
Weather: Sunny 52°F

137.91 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill 8 11
Discharge 9
Pressure 75
Flow 300 ml/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1519	137.98	11.33	1154	8.09	7.97	24.6	7.04	0.1 gal
1524		11.67	1167	7.77	7.73	41.4		
1527		11.42	1174	6.65	7.30	62.7		0.70 gal
1530	138.07	11.38	1173	6.62	7.23	71.6	11.66	
1533		11.38	1174	6.52	7.20	76.2		1.1 gal
1536		11.37	1174	6.54	7.18	80.4		
1539	138.07	11.37	1173	6.51	7.17	83.0	9.15	1.50 gal
1541	138.07	11.37	1172	6.48	7.17	84.1	9.00	1.59 gal
1543	138.07	11.37	1172	6.51	7.17	84.2	9.25	1.65 gal

Notes / Observations (color, odor, anomalies, etc):
8151 Herbicide Collected
Sample Time: 1545

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: BMcMullen
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: SE1D
Sample ID: 0417-27
Date: 4/25/2017
Weather: overcast

139.33 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 3
Discharge: 7
Pressure: 90
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1720		10.56	993	7.69	7.99	34.8		
1725		10.48	981	4.26	7.92	78.2		
1728		10.41	976	3.17	7.86	69.4		
1731		10.36	964	2.57	7.91	60.7		
1734		10.35	963	1.96	7.97	20.4		
1737		10.35	963	1.64	8.10	2.9		
1740		10.33	963	1.40	8.20	-15.7	7.96	
1743		10.34	963	1.26	8.27	-28.6	8.09	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: SE15
Sample ID: 0417 - 28
Date: 4/25/2017
Weather: overcast

139.51 (TOC) DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 20
Discharge 10
Pressure 75
Flow 300 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1815		10.08	873	6.90	7.99	45.6		
1820		10.12	870	5.61	7.78	52.8		
1823		10.15	869	4.84	7.69	60.6		
1826		10.13	870	4.26	7.67	64.5		
1829		10.11	870	4.00	7.66	66.7		
1832		10.12	870	3.90	7.65	68.0		
1835	139.52	10.11	871	3.88	7.65	69.6		
1838		10.10	871	3.86	7.65	70.3	2.33	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gratton
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: W25
Sample ID: 0417-29
Date: 4/26/2017
Weather: Partly cloudy

148.04 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9
Discharge 6
Pressure 80
Flow 175 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1825		9.68	858	8.38	7.69	74.9		
1830		9.89	930	6.73	7.29	86.1		
1833		9.88	934	6.22	7.18	90.4		
1836		9.87	937	5.98	7.11	93.2		
1839		9.92	937	5.76	7.11	94.1		
1842		9.92	938	5.72	7.11	94.4		
1845		9.91	937	5.62	7.12	94.9	1.52	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Site: Island Co. Landfill | DTW | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: WR1 | TOS | MP-20 | Refill | One Well Volume (liters) | Other:

Sample ID: 0417-30 | Intake | (YSI) | Discharge | Flow Setting:

Date: 4/26/2017 | BOS | Pressure | Total Volume Bailed (liters)

Weather: Sunny, windy | Total Depth | Flow

Filtered? (Y) N | Locked? Y (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1735		10.16	839	4.28	7.23	82.1	1.72	

Notes / Observations (color, odor, anomalies, etc):

ran pump for 10 minutes before sampling.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ESD
Sample ID: 0417 - 95
Date: 4/26/2017
Weather: Partly Cloudy

144.87 DTW
____ TOS
____ Intake
____ BOS
____ Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 9
Discharge: 11
Pressure: 100
Flow: 75 mL/min

One Well Volume (liters): ____
Total Volume Bailed (liters): ____
Other: ____
Flow Setting: ____

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1405		11.73	951	7.11	7.95	90.2		
1410		11.79	1039	4.33	7.71	84.0		
1413		11.70	1075	2.88	7.99	-45.0		
1416		11.67	1097	2.30	8.09	-72.9		
1419		11.57	1113	1.94	8.12	-83.5		
1422		11.50	1127	1.68	8.13	-90.3		
1425		11.48	1139	1.52	8.14	-96.1	2.49	

Notes / Observations (color, odor, anomalies, etc):

Split Volumes 0417 - 50 @ 1425

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: EGD
Sample ID: 0417-96
Date: 4/26/2017
Weather: sunny

147.80 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 10
Pressure 100
Flow 75 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1613		14.71	673	3.66	8.32	-17.0		
1618		14.80	675	2.61	8.38	-72.8		
1621		14.90	676	1.62	8.45	-122.3		
1624		14.89	675	1.43	8.43	-123.6		
1627		14.88	674	1.24	8.42	-131.2		
1630		14.80	676	1.20	8.42	-132.5		
1633		14.89	676	1.10	8.42	-136.2	1.38	
	aft reval.							
		15.24	663	1.68	7.95	-96.2		

Notes / Observations (color, odor, anomalies, etc):

Split taken as 0417-51 @ 1633

recalibrated YSI. 7.30 → 7.00

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ETD
Sample ID: 0417 - 97
Date: 4/25/2017
Weather: overcast

145.68 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 75 ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? Y (N)
* Water in Protector? (Y) N
** Damage? (Y) N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1507		14.88	1275	5.40	7.66	91.8		
1512		14.52	1484	2.81	7.32	54.6		
1515		14.35	1678	1.41	7.15	37.4		
1518		14.34	1732	1.06	7.14	20.2		
1521	145.72	14.29	1740	0.93	7.14	16.7		
1524		14.22	1741	0.84	7.13	16.7		
1527		14.21	1742	0.80	7.13	17.5	1.70	

Notes / Observations (color, odor, anomalies, etc):
* Water in protector
** Flushmount cap cracked.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E8D
Sample ID: 0417-98
Date: 4/26/2017
Weather: sunny, windy

148.52 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 75 mL/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1507		9.77	581	7.82	8.11	60.7		
1512		10.04	572	9.04	7.77	61.9		
1515		10.31	566	2.82	7.55	63.9		
1518		10.34	567	2.15	7.58	57.5		
1521		10.34	568	1.82	7.63	44.2		
1524		10.34	568	1.53	7.68	32.1		
1527		10.36	568	1.38	7.82	-22.2	4.19	

Notes / Observations (color, odor, anomalies, etc):

Split Volatiles 0417-52 @ 1527

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabor
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E9D
Sample ID: 0417-99
Date: 4/ 24 /2017
Weather: Cloudy 50°F

161.34 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 100 psi
Flow 120 ml/min

1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
Sample Time: 1150

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1121	162.89	9.72	596	8.12	8.23	4.2	19.18	0.1 gal
1126		9.93	571	5.70	8.08	19.3		
1129	164.10	9.99	580	4.38	7.88	-12.8	22.56	0.4 gal
1132		9.97	575	3.60	7.91	-71.6		
1135		9.96	572	3.15	8.11	-69.9		0.70 gal
1138		10.06	571	2.95	8.15	-75.8		0.75 gal
1141	165.25	10.17	569	2.68	8.21	-84.3	24.56	0.85 gal
1143	165.27	10.20	568	2.55	8.26	-90.2	24.31	0.87 gal
1145	165.33	10.20	568	2.54	8.27	-91.0	24.03	0.90 gal

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: B Mamullin
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E 10 D
Sample ID: 0417-100
Date: 4/ 24 /2017
Weather: Cloudy 47°F

162.59 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 9.5
Discharge 10.5
Pressure 105psi.
Flow 100 ml/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

oc

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1041	162.64	8.96	924	10.54	7.45	155.2	7.74	0.1 gal
1046	162.61	9.42	948	9.45	7.76	136.6		
1049	162.60	9.57	953	8.87	7.84	115.8		
1052		9.56	958	8.25	8.06	5.4	7.86	0.35 gal
1055		9.59	962	7.44	8.23	-52.2		
1058		9.58	962	8.82	8.25	-67.7		
1101	162.60	9.63	958	6.32	8.21	-70.3	7.81	0.50 gal
1103	162.60	9.64	957	6.19	8.19	-70.5	7.87	0.5 gal
1105	162.60	9.66	956	6.15	8.19	-70.5	7.86	0.52 gal

Notes / Observations (color, odor, anomalies, etc):

Sample Time: 1110

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: R McMullen
Printed Name

Signature

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/24/17					
Time	940					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1409	4.04	7.17			
Post Cal Reading	1413	4.01	failed	8.97	999, 9.9, 10.4	
Descrepancy	pH 7 failed to cal					
Calib. Successful?	Yes except for pH 7					
Calibration by	SFG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Island Co.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/24/17					
Time	940					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1405	4.02	7.08	6.78		
Post Cal Reading	1413	4.01	7.00	8.5	~~98~~, 97, 14, 1.21	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Island Co.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/25/17					
Time	845					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	4.30	7.38	10.38		
Post Cal Reading	1413	4.01	7.00	8.5	748, 99.2, 21.2, 10.5	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	JFG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/26/17					
Time	905					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1499	3.92	7.01	8.38		
Post Cal Reading	1413	4.01	7.00	8.50	797, 101, 19.7, 1.22	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEC					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	4/27/17					
Time	905					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	~~1000, 10, 0.2~~ 800, 100, 20, ~~<0.1~~	
Pre-Cal Reading	1420	4.08	7.05	4.38		
Post Cal Reading	1413	4.01	~~7.00~~	8.5	795, 97.1, 19.~~3~~ 1.82	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / ~~YSI 556~~				MicoTPW / ~~HACH2000~~	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.10	**TASK NO.**	1,2,3	**DATE**	5-3-17	**PROJECT NAME**	Island County Landfill
TEMP	62	**BARO**	29.92	**WIND**	1 MPH W	**WEATHER**	Overcast

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	4	Project Foreman	12	
			DAILY TOTAL	12	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	12	$222.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	10992	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2				SV LFG		50% Open 50% Open

Propane Tank Level	Propane Line PSI					
48% Full	12					

SUMMARY	0845 SDG travel from Portland, OR. To Coupeville, WA.
1400 SDG onsite to Monitor the Perimeter Gas Probes.	
1405 Calibrating the Gem – 2000.	
1416 SDG Monitoring the Gas Probes.	
1805 Completed Monitoring the Perimeter Probes for the Day.	
1810 Post Calibration of the Gem – 2000.	
1830 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 5-3-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.10

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: W Barometric Pressure: 29.92" Hg

Air Temperature: 62° F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 10992

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
14:05	49.9%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
18:10	49.9%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.10	**TASK NO.**	1,2,3	**DATE**	5-4-17	**PROJECT NAME**	Island County Landfill
TEMP	62	**BARO**	29.68	**WIND**	1 MPH W	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	4	Project Foreman	12	
			DAILY TOTAL	12	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	12	$222.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	10992	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
10:12 Blower # 1	71015	3.1	6.28’	SV	0.45 “H2O	50% Open
10:12 Blower # 2	96925	3.6		LFG	1.60” H2O	50% Open

Propane Tank Level	Propane Line PSI					
44% Full	12					

SUMMARY	0734 SDG onsite to monitor the Perimeter Gas Probes, and the Extraction Wells.

0745 Flare Operating.

0804 Calibrating the Gem – 2000.

0810 SDG Monitoring the Gas Probes.

0953 Completed Monitoring the Perimeter Probes.

1051 SDG monitoring the Extraction Wells.

1142 Completed Monitoring.

1230 Three Well Adjustments. HGW-1, HGW-2, VGW-2.

1250 Post Calibration of the Gem – 2000.

1300 SDG offsite.

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 5-4-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.10

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: W Barometric Pressure: 29.68" Hg

Air Temperature: 62° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 10992

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
08:04	49.9%	34.9%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
12:50	50.0%	35.0%	20.9%

NOTES:

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

July 31, 2017

File No. 04207033.10

Subject: **Third Quarter 2017 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: July 24 - 28
Personnel: Sam Graber

NOTES/SAMPLING DECODING:

- Water supply location STP was not sampled because the power line that provides energy to the pump was damaged. Site personel will repair damage prior to the next sampling event.
- Duplicate samples were taken at monitoring wells C1S and W1D.
- Water level elevations were measured at monitoring wells W1S on July 25th and N4S on July 27th, 2017.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at monitoring wells E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
7/26/2017	0717-01	DOT
7/26/2017	0717-02	E3D
7/25/2017	0717-03	E4S
7/25/2017	0717-04	E4D
NS	NS	STP
7/24/2017	0717-06	NE1S
7/24/2017	0717-07	NE1D
7/27/2017	0717-08	N5D
7/27/2017	0717-09	N5S
7/24/2017	0717-10	S11D
7/24/2017	0717-11	S11S
7/27/2017	0717-12	S10S
7/27/2017	0717-13	DNR
7/25/2017	0717-14	W1D
7/25/2017	0717-15	N1D

7/25/2017	0717-16	N1SR
7/28/2017	0717-17	N2D
7/28/2017	0717-18	N2S
7/25/2017	0717-19	C1S
7/24/2017	0717-20	N3D
7/24/2017	0717-21	N3S
7/26/2017	0717-22	E2D
7/26/2017	0717-23	E2S
7/24/2017	0717-24	S7
7/27/2017	0717-25	E1D
7/28/2017	0717-26	E1S
7/26/2017	0717-27	SE1D
7/26/2017	0717-28	SE1S
7/25/2017	0717-29	W2S
7/25/2017	0717-30	WR1
7/25/2017	0717-31	W1D (Duplicate)
7/25/2017	0717-32	C1S (Duplicate)
7/27/2017	0717-50	E5D
7/27/2017	0717-51	E6D
7/27/2017	0717-52	E8D
7/27/2017	0717-53	N5D
7/27/2017	0717-54	S10S
7/28/2017	0717-55	N2D
7/28/2017	0717-56	N2S
7/27/2017	0717-57	E1D
7/27/2017	0717-95	E5D
7/27/2017	0717-96	E6D
7/26/2017	0717-97	E7D
7/27/2017	0717-98	E8D
7/28/2017	0717-99	E9D
7/26/2017	0717-100	E10D

NS: Not Sampled

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: DOT
Sample ID: 0717-01
Date: 7/26/2017
Weather: sunny

DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Ran pump for 10 minutes before sampling.

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1650		14.40	706	1.07	8.01	+12.7	3.64	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E3D
Sample ID: 0717-02
Date: 7/26/2017
Weather: Sunny

150.65 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 11
Discharge: 9
Pressure: 100
Flow: 60 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1225		18.34	713	7.64	7.93	112.1		
1230		13.41	763	8.70	7.77	121.7		
1233		13.33	764	8.65	7.72	122.1		
1236		13.35	766	8.56	7.63	122.5		
1239		13.52	767	8.46	7.58	122.5		
1242		13.68	768	7.44	7.53	121.5		
1245		13.87	768	6.11	7.51	119.8		
1248		14.00	769	5.48	7.49	118.1		
1250	150.80	14.25	769	5.22	7.52	114.8	0.93	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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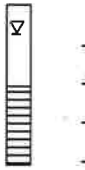
Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E45
Sample ID: 0717-03
Date: 7/25/2017
Weather: sunny



140.87 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8
Discharge: 7
Pressure: 80
Flow: 150 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1459		12.86	867	11.70	7.63	34.5		
1503		12.09	1119	5.45	7.08	71.2		
1506		11.97	1138	4.46	7.04	73.4		
1509		11.94	1174	3.42	7.00	77.2		
1512		11.96	1187	3.10	6.99	78.3		
1515		11.85	1210	2.66	6.99	80.5		
1518	141.00	11.84	1226	2.46	6.98	81.9	0.60	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E4D
Sample ID: 0717-04
Date: 7/25/2017
Weather: Sunny

153.22 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill: 8
Discharge: 12
Pressure: 100
Flow: 75 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1337		16.93	615	11.60	7.86	103.1		
1342		14.42	608	8.58	7.46	102.2		
1345		14.09	603	5.64	7.53	24.2		
1348		14.05	595	4.14	7.61	-16.6		
1351		13.72	586	3.00	7.75	-53.8		
1354		13.61	579	2.32	7.96	-73.1		
1357		13.77	575	1.90	7.92	-83.1		
1400	153.35	13.67	571	1.70	8.00	-94.4	1.68	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: NE1S
Sample ID: 0717 - 06
Date: 7/24/2017
Weather: Sunny

144.16 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill: 10
Discharge: 10
Pressure: 85
Flow: 90 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1125		17.43	585	10.01	7.54	141.8		
1130		17.01	692	4.05	7.31	138.7		
1133		16.53	761	3.60	7.24	136.8		
1136		16.17	800	7.98	7.11	135.1		
1139		16.01	855	7.10	7.12	127.1		
1142		16.07	861	6.97	7.13	125.2	10.70	
1145		15.97	863	6.90	7.15	123.4	9.84	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Bratzler
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: NE1D
Sample ID: 0717 - DT
Date: 7/24/2017
Weather: sunny

157.86 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill: 9
Discharge: 11
Pressure: 100
Flow: 100 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

* D_2 setting into sample tubing

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1250		21.83	732	8.23	7.31	116.8		
1255		18.93	722	8.33	7.11	118.5		
1258		18.51	717	7.32	7.16	115.4		
1301		18.28	711	6.48	7.23	112.2		
1304		18.19	704	5.39	7.29	108.4		
1307		17.97	699	5.12	7.33	105.4		
1310	158.00	18.12	697	4.60	7.36	101.9	4.29	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabor
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: USD
Sample ID: 0717 - 08
Date: 7/ 27 /2017
Weather: cloudy

149.42 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS:
Refill 15
Discharge 15
Pressure 100
Flow ~~200~~ mL/min 60

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1020		12.78	1103	9.01	7.59	149.4		
1025		12.34	1209	7.85	7.54	143.8		
1028		11.89	1288	6.91	7.46	141.7		
1031		11.35	1358	6.25	7.40	139.0		
1034		11.29	1424	4.56	7.36	134.6		
1037		11.25	1461	3.34	7.33	131.1		
1040		11.24	1476	2.80	7.32	128.6		
1043	149.60	11.26	1481	2.69	~~7.30~~ 7.32	124.5	0.54	

Notes / Observations (color, odor, anomalies, etc):

split taken as 0717 - 53 @ 1043

DTW 123.31
NAS

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graves
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: Island Co. Landfill | Well ID: MW5 | Sample ID: 0717-09 | Date: 7/27/2017 | Weather: cloudy

DTW	149.66	Sampling Method :	Dedicated / 1.75" QED SamplePro / Bail / Peristaltic / Grab / Other
TOS		Meter:	CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Intake		MP-20 / YSI	Refill 8.5
BOS			Discharge 6.5
Total Depth			Pressure 85
			Flow 150 mL/min

One Well Volume (liters): ____ Total Volume Bailed (liters): ____ Other: ____ Flow Setting: ____

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1200		12.41	820	4.50	7.66	103.4		
1205		10.97	769	2.19	7.27	116.8		
1208		10.92	769	1.68	7.26	113.5		
1211		10.96	769	1.13	7.26	110.0		
1214		10.90	770	0.94	7.26	106.6		
1217		10.93	770	0.86	7.26	104.6		
1220	149.88	10.96	771	0.80	7.27	102.3	0.54	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabor (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: SIID
Sample ID: 0717 - 10
Date: 7/24/2017
Weather: Sunny

DTW: 145.95
TOS:
Intake:
BOS:
Total Depth:

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS: 1 ft water = 0.62L | 1L = 0.24 gallons

Refill: 10
Discharge: 10
Pressure: 100
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1815		11.95	931	10.88	7.79	72.3		
1820		11.15	911	3.64	7.60	4.1		
1823		11.05	927	2.48	7.65	-22.3		
1826		10.94	920	1.79	7.71	-53.7		
1829		10.91	930	1.56	7.73	-63.2		
1832		10.86	934	1.32	7.76	-75.1		
1835		10.91	929	1.26	7.79	-82.8	3.81	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabo
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: 5115
Sample ID: 0717 - 11
Date: 7/24/2017
Weather: Sunny

134.41 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 12 One Well Volume (liters) Other:
Discharge 8 Flow Setting:
Pressure 75 Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1720		11.62	915	0.27	7.67	-82.9		
1723		11.33	916	4.28	7.71	-100.8		
1728		11.16	918	1.11	7.75	-124.9		
1731		11.03	916	0.71	7.75	-117.2		
1734		10.98	915	0.42	7.75	-106.4		
1737		10.96	913	0.35	7.73	-97.2		
1740		10.88	912	0.29	7.72	-89.6	1.01	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Galer
Printed Name

Signature

SCS ENGINEERS
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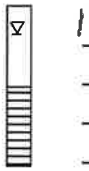
Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: S105
Sample ID: 0717-12
Date: 7/27/2017
Weather: cloudy



135.70 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill 9.5
Discharge 5.5
Pressure 90
Flow 300 ml/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

split taken as 0717-54 @ 1342

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1322		16.68	1379	7.45	7.42	123.5		
1327		16.14	1433	3.50	7.02	125.5		
1330		15.72	1427	1.38	6.94	120.2		
1333		15.78	1425	1.28	6.95	116.8		
1336		15.71	1423	1.03	6.95	114.0		
1339		15.69	1424	1.04	6.95	112.2		
1342	135.79	15.73	1423	1.00	6.95	110.2	0.63	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: DNR
Sample ID: 0717 - 13
Date: 7/27/2017
Weather: sunny

DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | (Grab) | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L 1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N Locked? (Y) N Water in Protector? Y N (NA) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1910		13.03	881	0.89	7.59	-60.5	1.56	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: IWID
Sample ID: 0717 - 14
Date: 7/ 25 /2017
Weather: Sunny

139.04 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 3
Discharge: 7
Pressure: 30
Flow: 300 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
948		12.75	1022	13.69	6.92	147.2		
953		11.68	1015	10.88	6.94	143.8		
956		11.03	1009	8.29	6.95	141.3		
959		10.94	1003	2.34	7.55	5.7		
1002		10.87	1002	1.87	7.67	-18.2		
1005		10.96	1001	1.33	7.82	-52.9		
1008		10.88	1001	1.09	7.88	-70.7	0.67	

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 0717-31 @ 1015

DTW
WIS 109.73

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ~~MW~~ NID
Sample ID: 0717 - 15
Date: 7/25/2017
Weather: Sunny

136.00 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 3.5
Discharge 6.5
Pressure 85
Flow 200 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1127		16.88	1519	10.22	7.73	103.8		
1132		14.43	1551	9.58	7.56	112.6		
1135		14.50	1555	9.23	7.43	112.7		
1138		14.47	1560	9.14	7.36	113.4		
1141		14.21	1560	6.92	7.34	85.7		
1144		13.99	1559	3.60	7.32	16.2		
1147		14.04	1561	3.40	7.33	-2.4	1.49	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabir
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N15R
Sample ID: 0717 - 16
Date: 7/25/2017
Weather: Sunny

92.82 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8.5
Discharge: 6.5
Pressure: 60
Flow: 300 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1227		13.19	425	8.00	7.01	108.4		
1232		13.05	397	4.34	6.38	130.5		
1235		13.06	401	4.35	6.39	131.4		
1238		13.04	410	4.23	6.41	132.5		
1241		13.00	408	4.15	6.41	133.1		
1244		13.07	407	4.17	6.43	133.7		
1247		13.00	412	4.13	6.44	134.4	2.13	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: U2D
Sample ID: 0717-17
Date: 7/28/2017
Weather: Sunny

147.39 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 12 One Well Volume (liters) Other:
Discharge 8 Flow Setting:
Pressure 90 Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1308		16.22	1279	3.18	7.30	-86.4		
1313		14.95	1251	1.23	7.21	-11.4		
1316		13.81	1238	0.56	7.10	19.0		
1319		13.78	1238	0.49	7.10	29.0		
1322		13.77	1238	0.43	7.10	35.4		
1325		13.69	1241	0.41	7.11	39.3		
1328	147.96	13.77	1240	0.38	7.11	41.4	1.28	

Notes / Observations (color, odor, anomalies, etc):

Split at 0717-55 @ 1328

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabar
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10		Sampling Method :	Dedicated	1.75" QED SamplePro	Bail	Peristaltic	Grab	Other
Site: Island Co. Landfill	136.03 DTW	Meter:	CONTROL SETTINGS:		1 ft water = 0.62L	1L = 0.24 gallons		
Well ID: ~~MW~~ U25	TOS	MP-20	Refill 11		One Well Volume (liters)		Other :	
Sample ID: 0717 - 18	Intake	YSI	Discharge 4				Flow Setting :	
Date: 7/28/2017	BOS		Pressure 90		Total Volume Bailed (liters)			
Weather: sunny	Total Depth		Flow 75 mL/min					

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly		125 ml Poly	
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3 x6	1000 ml Amber	
125 ml NaOH							

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1158		17.67	1101	8.66	7.62	81.5		
1203		15.82	1334	3.22	7.19	96.6		
1206		14.98	1543	1.66	6.97	104.3		
1209		14.87	1547	1.55	6.88	102.1		
1212		14.81	1548	1.45	6.87	101.4		
1215		14.85	1549	1.34	6.88	101.1		
1218	136.10	14.90	1550	1.26	6.90	100.7	1.39	

Notes / Observations (color, odor, anomalies, etc):

split as 0717-56 @ 1218

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gratton
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: C15
Sample ID: 0717 - 19
Date: 7/25/2017
Weather: Sunny

90.75 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 9
Discharge: 6
Pressure: 60
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1609		16.21	1057	10.80	7.55	83.3		
1614		14.41	1047	4.05	6.64	104.5		
1617		14.42	1053	3.95	6.65	105.1		
1620		14.37	1058	3.92	6.66	107.2		
1623		14.36	1060	3.95	6.66	108.4		
1626		14.39	1063	4.06	6.66	110.0		
1629	91.20	14.32	1064	4.07	6.66	111.3	0.73	

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 0717-32
@ 1630 1640

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: U3D
Sample ID: 0717 - 20
Date: 7/ 24 /2017
Weather: Sunny

149.83 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 9
Discharge 6
Pressure 80
Flow 300 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):
Some particulates from sampling tubing setting in sample

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1517		20.57	686	2.54	7.42	111.3		
1522		18.21	681	7.80	7.01	122.8		
1525		16.65	652	6.90	6.68	130.6		
1528		16.09	650	7.02	6.71	127.1		
1531		15.96	649	6.12	6.80	126.3		
1534		15.89	652	4.09	6.99	80.1		
1537	150.05	15.74	660	3.88	7.16	69.3	1.53	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: N35
Sample ID: 0717 - 21
Date: 7/24/2017
Weather: Sunny

139.38 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill: 10
Discharge: 5
Pressure: 80
Flow: 300 mL/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1425		17.87	1000	9.33	~~7.52~~	114.2		
1430		14.60	1051	5.88	7.23	119.0		
1433		14.64	1071	5.08	7.19	118.3		
1436		14.34	1096	4.84	7.17	116.9		
1439		14.17	1095	5.80	7.18	117.7		
1442		14.00	1086	6.87	7.19	120.2		
1445	139.50	14.02	1084	7.20	~~7.19~~ 7.20	121.9	1.58	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ~~MW~~ E2D
Sample ID: 0717 - 22
Date: 7/26/2017
Weather: sunny

147.86 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10.5
Discharge 9.5
Pressure 100
Flow 75 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) ~~N~~
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
955		16.32	1297	8.27	7.33	155.4		
1000		13.95	1475	7.45	7.16	148.4		
1003		13.71	1619	6.99	7.12	146.0		
1006		13.72	1674	5.50	7.02	144.3		
1009		13.66	1694	4.63	6.96	143.4		
1012		13.65	1706	3.40	6.87	140.8		
1015	147.90	13.59	1701	3.30	6.81	136.0	0.56	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E25
Sample ID: 0717-23
Date: 7/26/2017
Weather: sunny

137.39 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 9.5 One Well Volume (liters) Other:
Discharge 5.5 Flow Setting:
Pressure 90 Total Volume Bailed (liters)
Flow 200 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1115		13.72	1230	7.37	7.17	120.7		
1120		13.33	1286	3.22	6.98	121.2		
1123		12.95	1343	0.95	6.86	122.9		
1126		12.94	1343	0.76	6.86	118.3		
1129		12.92	1343	0.54	6.87	114.9		
1132		12.95	1344	0.49	6.87	113.0		
1135	137.60	12.91	1343	0.47	6.88	111.8	1.37	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ST
Sample ID: 0717-24
Date: 7/24/2017
Weather: sunny

DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other :
Flow Setting :

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y N (NA)
Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly			125 ml Poly
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3	x6	1000 ml Amber
125 ml NaOH							

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1623		23.20	793	1.86	8.08	83.9	1.14	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: EID
Sample ID: 0717-25
Date: 7/27/2017
Weather: Partly Cloudy

137.61 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 8 | One Well Volume (liters) | Other:
Discharge 7 | Flow Setting:
Pressure 80 | Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1750		13.62	1488	9.20	7.52	90.5		
1755		12.93	1564	8.63	7.33	100.0		
1758		12.53	1732	8.28	7.34	104.7		
1801		12.53	1763	8.17	7.33	106.4		
1804		12.41	1781	4.92	7.18	105.3		
1807		12.35	1786	3.20	7.11	102.0		
1810		12.18	1796	2.00	7.06	94.2		
1813	137.75	12.16	1797	1.82	7.05	87.4	0.62	

Notes / Observations (color, odor, anomalies, etc):

Splitas 0717-57
@ 1813

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gaber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: EIS
Sample ID: 0717-26
Date: 7/28/2017
Weather: Sunny

137.92 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 75
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):
8151 tplus

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1048		12.43	1165	7.37	7.40	46.6		
1053		12.05	1150	6.57	~~6.56~~ 7.07	73.3		
1056		12.08	1138	6.46	7.03	80.4		
1059		12.03	1140	6.41	7.01	87.6		
1102		12.05	1143	6.37	7.00	90.9		
1105		12.11	1146	6.31	7.00	94.8	7.90	
1108	138.04	12.15	1150	6.32	7.00	97.4	7.21	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Galvez
Printed Name

Signature

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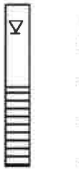
Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: SE1D
Sample ID: 0717-27
Date: 7/26/2017
Weather: Sunny



139.75 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 8
Discharge 7
Pressure 90
Flow 300 ml/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly		125 ml Poly	
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3 x6	1000 ml Amber	
125 ml NaOH							

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1750		13.10	970	9.03	7.84	38.1		
1755		11.64	957	8.08	7.54	99.3		
1758		11.35	957	3.60	7.45	84.8		
1801		11.30	956	2.58	7.53	49.4		
1304		11.19	955	1.60	7.67	3.8		
1807	140.01	11.16	955	1.27	7.73	-11.7		
1810	140.10	11.10	955	1.08	7.80	-29.7	2.61	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: Island Co. Landfill | Well ID: SE15 | Sample ID: 0717-28 | Date: 7/26 /2017 | Weather: Sunny

139.37 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill 20 | Discharge 10 | Pressure 75 | Flow 300 mL/min

One Well Volume (liters) | Total Volume Bailed (liters) | Other : | Flow Setting :

Filtered? (Y) N | Locked? (Y) N | Water in Protector? (Y) N | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1843		11.57	866	8.55	7.62	65.0		
1848		11.20	865	7.23	7.49	78.2		
1851		10.98	863	6.09	7.38	86.9		
1854		10.78	864	5.38	7.34	89.2		
1857		10.69	864	4.97	7.34	89.1		
1900		10.65	864	4.54	7.34	89.5		
1903	139.59	10.64	864	4.45	7.35	90.1	0.55	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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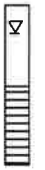
Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: W25
Sample ID: 0717 - 29
Date: 7/25/2017
Weather: Sunny



147.96 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9
Discharge 6
Pressure 80
Flow 250 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1840		13.31	903	10.74	7.63	98.5		
1845		12.30	942	9.58	7.32	108.6		
1848		11.24	976	8.48	6.99	118.9		
1851		11.09	977	8.20	6.98	118.9		
1854		11.06	978	8.10	6.98	118.9		
1857		11.03	978	8.03	6.98	118.7		
1900		10.96	977	7.97	6.98	118.7	0.59	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabor
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: WTZ 1
Sample ID: 0717 - 30
Date: 7/25/2017
Weather: sunny

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:

DTW
TOS
Intake
BOS
Total Depth

Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1750		15.63	894	2.86	7.09	118.6	0.93	

Notes / Observations (color, odor, anomalies, etc):

ran pump for 10 minutes prior to sampling.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: ESD
Sample ID: 0717-95
Date: 7/27/2017
Weather: cloudy

144.99 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 100
Flow 75 ml/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1450		15.99	1011	10.46	7.70	112.8		
1455		14.21	1092	6.22	7.64	10.2		
1458		13.62	1125	2.89	7.61	-60.4		
1501		12.88	1150	1.52	7.57	-99.3		
1504		12.92	1162	1.27	7.56	-102.9		
1507		12.88	1176	1.04	7.55	-105.7		
1510	145.12	12.86	1186	0.90	7.55	-108.0	1.87	

Notes / Observations (color, odor, anomalies, etc):

Splitter 0717-50 @ 1500

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: Island Co. Landfill | Well ID: E6D | Sample ID: 0717-96 | Date: 7/27/2017 | Weather: 90a partly cloudy

147.86 DTW | TOS | Intake | BOS | Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L | 1L = 0.24 gallons

Refill 10 | Discharge 10 | Pressure 100 | Flow 75 mL/min

One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Filtered? Y (N) | Locked? Y (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1652		18.59	694	6.84	7.92	41.4		
1657		16.88	696	1.75	7.93	-118.0		
1700		16.87	696	1.36	7.92	-128.8		
1703		16.88	696	1.16	7.91	-131.9		
1706		16.78	696	1.02	7.91	-134.0		
1709		16.90	696	0.89	7.90	-137.1		
1712	147.92	16.99	696	0.85	7.90	-138.5	0.69	

Notes / Observations (color, odor, anomalies, etc):

Split as 0717-S1 @ 1712

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) | (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E7D
Sample ID: 0717 - 97
Date: 7/26/2017
Weather: Sunny

145.76 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 10
Pressure 100
Flow 100 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1437		19.92	1299	7.98	7.42	120.4		
1442		18.20	1383	5.49	7.19	122.0		
1445		17.69	1541	3.28	6.98	78.1		
1448		17.66	1655	2.03	6.83	43.5		
1451		17.45	1714	1.56	6.78	26.5		
1454		17.44	1740	1.10	6.76	16.3		
1457	145.85	17.59	1742	1.00	6.75	12.4	1.46	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grator
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Site: Island Co. Landfill | Well ID: E8D | Sample ID: 0717-98 | Date: 7/27/2017 | Weather: cloudy

148.65 DTW | TOS | Intake | BOS | Total Depth

Sampling Method : Meter: MP-20 (YSI)

Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

CONTROL SETTINGS: 1 ft water = 0.62L | 1L = 0.24 gallons

Refill 10 | Discharge 10 | Pressure 100 | Flow 75 mL/min

One Well Volume (liters) | Total Volume Bailed (liters) | Other : | Flow Setting :

Filtered? Y (N) | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1550		16.54	611	10.81	8.12	90.2		
1555		12.19	586	7.72	7.31	100.4		
1553		12.12	595	5.45	7.27	92.5		
1601		12.03	584	3.40	7.24	81.8		
1604		11.98	586	1.89	7.25	68.5		
1607		11.84	586	1.49	7.26	61.9		
1610	148.75	11.77	587	1.31	7.35	-26.6	1.83	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 0717-52 @ 1610

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Bratzer (Printed Name) _____ (Signature)

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2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E90
Sample ID: 0717-99
Date: 7/23/2017
Weather: cloudy

161.47 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
1 ft water = 0.62L
1L = 0.24 gallons

Refill: 9
Discharge: 11
Pressure: 100
Flow: 150 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
958		12.91	559	9.91	7.25	158.1		
1003		11.27	562	3.62	7.55	61.8		
1006		11.20	561	2.58	7.81	-16.1		
1009		11.20	559	1.85	8.01	-58.3		
1012		11.20	556	1.59	8.08	-76.4		
1015		11.20	555	1.25	8.14	-98.0	6.56	
1018		11.17	554	1.11	8.17	-109.5	6.18	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
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66

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island Co. Landfill
Well ID: E100
Sample ID: 0717-100
Date: 7/26/2017
Weather: Sunny

162.93 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 9.5
Discharge 10.5
Pressure 105
Flow 100 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1550		18.16	902	10.85	7.80	109.6		
1553		14.12	918	9.43	7.74	112.8		
1556		13.55	925	9.28	7.71	112.6		
1601		12.98	930	9.10	7.68	112.4		
1604		12.94	929	7.80	7.69	37.7		
1607		12.71	928	6.17	7.72	-10.2		
1610		12.52	927	4.52	7.76	-67.6		
1613		12.16	925	3.66	7.77	-84.3	5.11	
1616		12.21	919	3.41	7.77	-98.1	4.99	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabor
Printed Name

Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/24/17					
Time	1000					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1422	4.11	7.01	9.32		
Post Cal Reading	1413	4.01	7.00	8.50	786, 99.8, 20.8, 0.95	
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	SAG					
Instrument Type, ID	MP20 / ~~YSI 556~~				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/25/17					
Time	900					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1381	4.04	6.98			
Post Cal Reading	1413	4.01	7.00	10.19	788, 98.2, 22.3, 1.38	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SAG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/26/17					
Time	900					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1442	3.97	6.98	9.62		
Post Cal Reading	1413	4.01	7.00	8.50	799, 99.0, 20.9, 1.26	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	7/27/17					
Time	900					
Weather (sky or precip, temp)	rainy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1388	3.98	7.00	8.38		
Post Cal Reading	1413	4.01	7.00	8.50	798, 99.7, 21.1, 0.7	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date						
Time	7/28/17		900			
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1436	3.97	7.04	9.30		
Post Cal Reading	1413	4.01	7.00	8.50	786, 104, 21.7, 1.19	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	CSWF					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.10	TASK NO.	1,2,3	DATE	8-2-17	PROJECT NAME	Island County Landfill
TEMP	75	BARO		WIND	10 MPH W	WEATHER	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	4	Project Foreman	12	
			DAILY TOTAL	12	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	12	$222.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	10992	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
10:12 Blower # 1	71147	3.0	6.15’	SV	0.50 “H2O	50% Open
10:12 Blower # 2	97464	3.6		LFG	1.40” H2O	50% Open

Propane Tank Level	Propane Line PSI					
41% Full	12					

SUMMARY	0830 SDG onsite to monitor the Perimeter Gas Probes, and the Extraction Wells.
0850 Calibrating the Gem – 2000.	
0940 SDG monitoring the Extraction Wells.	
1058 Completed Monitoring the Extraction Wells	
1103 SDG monitoring the Perimeter Probes.	
1356 Completed Monitoring for the Day.	
1415 Post Calibration.	
1430 Offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 8-2-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.10

WEATHER OBSERVATIONS

Wind Speed: 10 MPH Wind Direction: W Barometric Pressure: 29.85" Hg

Air Temperature: 75° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
08:50	50.0%	34.9%	20.7%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
14:15	50.0%	34.8%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.10	**TASK NO.**	1,2,3	**DATE**	8-3-17	**PROJECT NAME**	Island County Landfill
TEMP	75	**BARO**	29.75	**WIND**	4 MPH W	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	4	Project Foreman	12	
			DAILY TOTAL	12	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	12	$222.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	10992	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2				SV LFG		50% Open 50% Open

Propane Tank Level	Propane Line PSI					
41% Full	12					

SUMMARY	0845 SDG onsite to monitor the Perimeter Gas Probes, and the Extraction Wells.
0900 Calibrating the Gem – 2000.	
0914 SDG monitoring the Perimeter Gas Probes	
1158 Completed Monitoring the Gas Probes.	
1103 SDG making Well Adjustments on all HGW Wells.	
1251 Completed Monitoring	
1305 Post Calibration.	
1315 Offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 8-3-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.10

WEATHER OBSERVATIONS

Wind Speed: 4 MPH Wind Direction: W Barometric Pressure: 29.75" Hg

Air Temperature: 84° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
09:00	49.9%	34.9%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
13:05	50.0%	34.8%	20.8%

NOTES:

Environmental Consultants
and Contractors

2405 140th Avenue, NE
Suite 107
Bellevue, WA 98005-1877

425 746-4600
FAX 425 746-6747
www.scsengineers.com

SCS ENGINEERS

October 27, 2017

File No. 04207033.10

Subject: **Fourth Quarter 2017 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

Sampling Dates: October 23-26
Personnel: Sam Graber & Alexa Deep

NOTES/SAMPLING DECODING:

- Water supply location DNR was not sampled during this event. Site personnel informed SCS that a car crashed into the building structure and the water supply pump was not functioning at this time.
- Duplicate samples were taken at monitoring wells C1S and N3D.
- Water level elevations were measured at monitoring wells W1S on October 24th and N4S on October 25th, 2017.
- Meters were calibrated daily prior to sampling.
- Split samples were collected for VOC analysis at monitoring wells E1D, E5D, E6D, E8D, N2S, N2D, N5D and S10S and sent to Edge Analytical in Burlington, Washington for comparison.

Date Sampled	Sample Number	Well Number
10/24/2017	1017-01	DOT
10/24/2017	1017-02	E3D
10/23/2017	1017-03	E4S
10/23/2017	1017-04	E4D
10/26/2017	1017-05	STP
10/23/2017	1017-06	NE1S
10/23/2017	1017-07	NE1D
10/25/2017	1017-08	N5D
10/25/2017	1017-09	N5S
10/23/2017	1017-10	S11D
10/23/2017	1017-11	S11S
10/25/2017	1017-12	S10S
NS	NS	DNR
10/24/2017	1017-14	W1D
10/23/2017	1017-15	N1D

10/23/2017	1017-16	N1SR
10/26/2017	1017-17	N2D
10/26/2017	1017-18	N2S
10/26/2017	1017-19	C1S
10/23/2017	1017-20	N3D
10/23/2017	1017-21	N3S
10/23/2017	1017-22	E2D
10/23/2017	1017-23	E2S
10/24/2017	1017-24	S7
10/26/2017	1017-25	E1D
10/24/2017	1017-26	E1S
10/25/2017	1017-27	SE1D
10/25/2017	1017-28	SE1S
10/24/2017	1017-29	W2S
10/24/2017	1017-30	WR1
10/26/2017	1017-31	C1S (Duplicate)
10/23/2017	1017-32	N3D (Duplicate)
10/25/2017	1017-50	E5D
10/25/2017	1017-51	E6D
10/25/2017	1017-52	E8D
10/25/2017	1017-53	N5D
10/25/2017	1017-54	S10S
10/26/2017	1017-55	N2D
10/26/2017	1017-56	N2S
10/26/2017	1017-57	E1D
10/25/2017	1017-95	E5D
10/25/2017	1017-96	E6D
10/24/2017	1017-97	E7D
10/25/2017	1017-98	E8D
10/24/2017	1017-99	E9D
10/24/2017	1017-100	E10D

NS: Not Sampled

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: DOT
Sample ID: 1017 -01
Date: 10/24 /2017
Weather: sunny

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

DTW
TOS
Intake
BOS
Total Depth

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y N (NA)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1430		12.36	678	1.89	7.98	-135	2.19	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: E3D | MP-20 | Refill: 11 | One Well Volume (liters): | Other:

Sample ID: 1017 - 02 | YSI | Discharge: 9

Date: 10/24/2017 | Pressure: 100 | Total Volume Bailed (liters): | Flow Setting:

Weather: Sunny | Flow: 120 mL/min

	DTW	TOS	Intake	BOS	Total Depth
	150.48				

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly		125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA	x3 x6	1000 ml Amber
125 ml NaOH				

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
930		10.05	661	10.02	6.53	116		
935		11.22	748	4.44	7.81	93		
939		11.15	746	3.43	7.75	97		
941		11.09	745	2.42	7.71	96		
944		11.09	751	4.02	7.64	94		
947		11.09	751	3.22	7.60	87		
~~949~~ 949		11.08	750	2.48	7.71	65		
952		11.07	745	2.09	7.74	40		
955	150.51	11.07	744	1.91	7.76	20	1.20	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grator
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E45
Sample ID: 1017-03
Date: 10/ 23 /2017
Weather: Sunny

1411.02 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 150 mL/min
1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1535 1530		13.83	767	9.00	7.98	130.8		
1540		11.30	1102	4.24	7.26	147.3		
1543		11.19	1135	3.18	7.19	146.3		
1546		11.13	1152	2.80	7.16	144.4		
1549		11.14	1163	2.52	7.15	142.4		
1552		11.13	1170	2.41	7.14	141.3		
1555		11.13	1181	2.13	7.14	140.0		
1558	1411.19	11.07	1184	2.06	7.14	139.1	2.32	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Alexa Deep
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E4D
Sample ID: 1017-04
Date: 10/23/2017
Weather: partly cloudy

153.38 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 8
Discharge: 12
Pressure: 100
Flow: 110 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1528		14.23	619	4.39	8.03	99		
1533		12.74	608	7.81	7.81	70		
1536		12.20	603	4.94	7.93	-228		
1539		11.94	596	3.00	7.92	-272		
1542		11.85	588	1.90	8.04	-209		
1545		11.69	579	1.36	8.15	-294		
1548	153.45	11.68	576	1.21	8.19	-293	2.35	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: 1017-05
Sample ID: STP
Date: 10/26/2017
Weather: sunny

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:

DTW
TOS
Intake
BOS
Total Depth

Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

run pump for 10 min

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1445		11.48	604	0.86	8.54	-123.5	~~881~~ 16.2	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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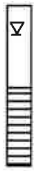
Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: NE15
Sample ID: 1017 - 06
Date: 10/ 23 /2017
Weather: partly cloudy



144.46 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)

Refill: 10
Discharge: 10
Pressure: 85
Flow: 90 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1407		16.81	659	8.43	7.69	123		
1412		15.74	769	7.67	7.53	131		
1415		15.42	843	6.29	7.25	137		
1418		15.36	879	6.10	7.20	139		
1421		15.02	899	6.07	7.22	138		
1424		14.87	897	6.04	7.24	139		
1427	144.63	14.61	892	6.14	7.25	139	0.87	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: WE1D
Sample ID: 1017-07
Date: 10/23/2017
Weather: Sunny

DTW: 159.02
TOS:
Intake:
BOS:
Total Depth:

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill: 9
Discharge: 11
Pressure: 100
Flow: 70 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y N
Locked? Y N
Water in Protector? Y N
Damage? Y N

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1413		22.03	11	5.35	7.80	129.0		
1418		17.65	9	3.69	7.33	126.2		
1421		19.86	7	4.77	7.48	119.6		
1424		20.93	6	4.24	7.57	113.8		
1427		20.70	6	4.26	7.60	112.8		
1430		20.75	6	4.30	7.61	113.2		
1433	158.52	19.96	6	4.26	7.61	113.7	4.92	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: ALEXA DEPP
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: N5D
Sample ID: 1017-08
Date: 10/25/2017
Weather: Light rain

149.24 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 15
Discharge 15
Pressure 100
Flow 70 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
932		10.68	1128	7.27	7.56	186.1		
937		10.48	1188	5.55	7.51	184.9		
940		10.34	1242	4.34	7.45	183.5		
943		10.33	1255	3.42	7.43	181.2		
946		10.33	1265	2.57	7.41	179.0		
949		10.33	1283	2.12	7.40	176.0		
952		10.34	1299	1.83	7.40	174.2		
955	149.24	10.35	1321	1.69	7.40	172.4	1.37	

Notes / Observations (color, odor, anomalies, etc):
Split taken as 1017-53 @ 955

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grator
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: N55
Sample ID: 1017 - 09
Date: 10/25/2017
Weather: Rainy

149.45 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 9.5
Discharge 8.5
Pressure 85
Flow 100 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

N45 DTW
122.85

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1103		10.35	770	7.93	7.70	134.3		
1108		10.36	721	5.01	7.62	138.2		
1111		10.35	685	3.83	7.55	145.4		
1114		10.35	666	2.99	7.48	148.1		
1117		10.39	749	2.16	7.47	144.0		
1120		10.35	749	1.45	7.46	148.7		
1123	144.45	10.35	749	1.28	7.46	148.0	1.41	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gordon
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: S110
Sample ID: 1017-10
Date: 10/23/2017
Weather: partly cloudy

146.26 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 10
Discharge: 10
Pressure: 100
Flow: 300 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1709		12.56	969	11.38	8.09	3		
1712		10.91	991	6.85	7.79	29		
1715		10.67	987	4.90	7.74	-16		
1718		10.63	982	5.11	7.74	-33		
1721		10.62	979	5.30	7.74	-48		
1724		10.60	983	4.47	7.75	-61		
1727		10.55	983	4.28	7.78	-75	0.83	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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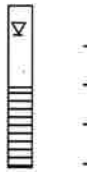
Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: S15
Sample ID: 1017-11
Date: 10/ 23 /2017
Weather: OVERCAST



134.52 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 12
Discharge 8
Pressure 75
Flow 300 mL/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
17:10		12.24	929	8.39	7.90	145.3		
1715		10.35	906	1.17	7.88	-83.0		
1718		10.30	907	0.50	7.91	-95.6		
1721		10.31	904	0.28	7.90	-99.6		
1724		10.30	903	0.23	7.88	-98.5		
1727		10.28	902	0.22	7.86	-97.6		
1730		10.27	902	0.19	7.85	-97.0	0.97	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Alexa Depp
Printed Name

Alexa Depp
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: S105
Sample ID: 1017 - 12
Date: 10/25/2017
Weather: rainy

135.70 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 9.5 One Well Volume (liters) Other:
Discharge 5.5 Flow Setting:
Pressure 80 Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1235		13.53	1121	6.07	7.72	155.7		
1240		14.96	1370	4.37	7.37	159.5		
1243		14.94	1380	2.93	7.21	161.8		
1246		14.96	1383	1.86	7.13	162.7		
1249		14.79	1391	1.56	7.11	162.6		
1252		14.82	1390	1.37	7.10	162.1		
1255		14.84	1380	1.23	7.10	161.3	1.10	

Notes / Observations (color, odor, anomalies, etc):
split taken as 1017 - 54
@ 1255

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: W10
Sample ID: 1017-14
Date: 10/24/2017
Weather: Sunny

139.08 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8
Discharge: 7
Pressure: 80
Flow: 350 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly		500 ml Poly		250 ml Poly		125 ml Poly	
500 ml HNO3	x2	500 ml H2SO4	x2	40 ml VOA	x3 x6	1000 ml Amber	
125 ml NaOH							

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1245		11.60	963	9.49	7.37	-84		
1250		10.91	965	8.13	7.08	-51		
1253		10.86	966	6.28	7.16	-58		
1256		10.82	958	4.12	7.35	-97		
1259		10.80	955	1.98	7.71	-156		
1302		10.77	957	1.45	7.82	-167		
1305	139.10	10.76	956	1.28	7.87	-178	1.58	

Notes / Observations (color, odor, anomalies, etc):

WIS OTW:

109.71

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gabet
Printed Name

Signature

SCS ENGINEERS
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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: NID
Sample ID: 1017 - 15
Date: 10/ 23 /2017
Weather: SUNNY/CLEAR

136.17 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 8.5
Discharge 6.5
Pressure 85
Flow 200 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
11:38		14.30	1281	9.98	8.08	151.1		
11:43		14.11	1508	7.71	7.78	151.8		
11:46		13.11	1511	7.42	7.55	150.2		
11:49		13.08	1511	6.59	7.47	148.2		
11:52		13.04	1511	3.91	7.41	125.0		
11:55		13.05	1512	2.35	7.51	-3.0		
11:58		13.08	1512	1.68	7.55	-34.9		
12:01		13.08	1513	1.39	7.56	-42.8		
12:04	136.15	13.11	1512	1.16	7.57	-50.8	2.71	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Alexa Deep
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: NiSR
Sample ID: 1017-16
Date: 10/23/2017
Weather: overcast

94.42 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 0.5 | One Well Volume (liters) | Other :
Discharge 6.5 | Flow Setting :
Pressure 60 | Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N | Locked? (Y) (N) | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1135		12.50	443	5.76	6.93	122		
1140		12.44	441	5.60	6.78	126		
1143		12.43	448	5.81	6.72	129		
1146		12.42	455	6.15	6.65	136		
1149		12.43	456	5.51	6.65	137		
1152		12.45	459	6.20	6.63	139		
1155	94.50	12.48	459	6.47	6.62	141	1.23	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County | DTW: 147.96 | Meter: | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: MW20 | TOS: | MP-20 | Refill: 12 | One Well Volume (liters): | Other:

Sample ID: 1017-17 | Intake: | (YSI) | Discharge: 8 | Flow Setting:

Date: 10/26/2017 | BOS: | Pressure: 90 | Total Volume Bailed (liters):

Weather: Sunny | Total Depth: | Flow: 300 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1027		13.41	1230	2.06	7.19	97.2		
1032		12.97	1204	0.67	7.15	110.1		
1035		12.91	1221	0.51	7.13	114.3		
1038		12.88	1225	0.40	7.12	117.1		
1041		12.87	1226	0.39	7.12	117.7		
1044		12.89	1227	0.35	7.12	118.8		
1047		12.90	1228	0.32	7.12	119.1	0.53	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 1017-55 @ 1047

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabow
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: MW25
Sample ID: 1017-18
Date: 10/26/2017
Weather: overcast

135.94 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10.5 One Well Volume (liters) Other:
Discharge 4.5 Flow Setting:
Pressure 90 Total Volume Bailed (liters)
Flow 80 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
915		13.38	1076	7.41	6.86	197.9		
920		13.25	1390	4.21	6.92	196.2		
923		13.24	1517	1.52	6.92	190.9		
926		13.28	1525	1.25	6.93	186.9		
929		13.28	1526	1.23	6.93	186.5		
932		13.42	1526	0.92	6.94	181.5	0.85	
935		13.47	1526	0.78	6.95	177.5	0.81	

Notes / Observations (color, odor, anomalies, etc):
split taken as 1017-56 @ 935

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graton
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: C15
Sample ID: 1017-19
Date: 10/26/2017
Weather: Sunny

90.90 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: (Dedicated) | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 (YSI)

CONTROL SETTINGS:
Refill 10
Discharge 5
Pressure 65
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1140		13.45	1001	4.28	6.90	161.5		
1145		13.38	995	3.45	6.87	159.0		
1148		13.33	986	2.58	6.78	157.7		
1151		13.36	988	2.50	6.77	156.3		
1154		13.33	990	2.50	6.77	155.2		
1157		13.37	990	2.45	6.76	155.0		
1200	90.95	13.41	990	2.43	6.76	154.7	0.42	

Notes / Observations (color, odor, anomalies, etc):

Dup taken as 1017-31 @ 1210

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: MW-30
Sample ID: 1017-20
Date: 10/23/2017
Weather: overcast

150.21 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 9
Discharge: 6
Pressure: 30
Flow: 300 ml/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

Dup collected as 1017-32 @ 1045

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1011		15.11	716	8.04	6.93	143		
1016		14.28	685	6.80	6.80	~~145~~		
1019		13.94	686	6.63	6.74 6.81	144		
1022		13.68	688	6.46	6.83	145		
1025		13.32	689	3.56	7.01	132		
1028		13.16	691	2.59	7.24	107		
1031		13.09	699	2.40	7.33	104		
1034		12.99	692	2.21	7.50	67	2.01	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Grabber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: MW35
Sample ID: 1017 - 21
Date: 10/23/2017
Weather: OVERCAST

139.90 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 — One Well Volume (liters) — Other:
Discharge 5 — Flow Setting:
Pressure 80 — Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
10:11		13.10	1092	6.44	6.89	211.9		
10:16		12.80	1091	4.57	7.14	201.7		
10:19		12.79	1085	5.08	7.16	196.5		
10:22		12.77	1081	5.31	7.17	193.6		
10:25		12.75	1074	5.49	7.18	189.9		
10:28		12.70	1073	5.61	7.19	187.1		
10:31		12.68	1072	5.64	7.20	185.1	2.02	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Alexa Deep
Printed Name

Alexa Deep
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E20
Sample ID: 1017-22
Date: 10/23/2017
Weather: Sunny

14.06 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 10.5
Discharge 9.5
Pressure 100
Flow 75 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
12:50		14.92	1333	7.34	7.64	120.8		
12:55		15.46	1399	6.69	7.41	124.2		
12:58		14.70	1598	6.38	7.30	127.8		
13:01		13.75	1685	4.59	7.14	130.4		
13:04		13.62	1697	3.25	7.03	132.3		
13:07		13.57	1690	2.48	6.97	132.6		
13:10		13.54	1670	2.13	6.93	132.7		
13:13		13:50	1666	1.85	6.91	132.7		
13:16		13:52	1671	1.68	6.90	132.7	2.26	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Alexa Depp
Printed Name

Alexa Depp
Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E25
Sample ID: 1017-23
Date: 10/23/2017
Weather: Partly cloudy

137.53 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 9.5
Discharge 5.5
Pressure 80
Flow 200 mL/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1247		14.81	1134	8.45	7.36	128		
1252		13.50	1405	6.82	7.21	134		
1255		13.32	1411	2.18	7.00	133		
1258		13.26	1413	1.25	6.99	132		
1301		13.18	1408	1.01	6.98	132		
1304		13.10	1403	0.76	6.97	132		
1307	137.70	13.11	1404	0.68	6.97	132	0.53	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gaber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: 57 | DTW | Refill | One Well Volume (liters) | Other:

Sample ID: 1017 - 24 | TOS | Discharge | Flow Setting:

Date: 10/24/2017 | Intake | Pressure | Total Volume Bailed (liters)

Weather: Sunny | BOS | Flow

Total Depth

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y N (NA) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1350		11.51	755	2.26	8.26	-41	1.30	

Notes / Observations (color, odor, anomalies, etc):

purged line for 10 minutes

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Baker
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: ETD
Sample ID: 1017-25
Date: 10/26/2017
Weather: sunny

137.65 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 8 | One Well Volume (liters) | Other:
Discharge 7 | Flow Setting:
Pressure 80 | Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1257		13.41	1326	9.60	7.54	165.7		
1302		12.11	1602	6.82	7.41	167.4		
1305		12.01	1698	6.74	7.43	167.0		
1308		11.87	1740	5.48	7.38	166.6		
1311		11.83	1743	3.30	7.27	166.1		
1314		11.77	1758	1.45	7.16	163.0		
1317		11.73	1763	1.10	7.15	159.6		
1320	137.90	11.68	1765	0.96	7.15	155.8	0.31	

Notes / Observations (color, odor, anomalies, etc):

Split taken as 1017-57 @ 1320

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Crater
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County | DTW: 137.79 | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: EIS | TOS: | Refill: 12.5 | One Well Volume (liters): | Other:

Sample ID: 1017-26 | Intake: | Discharge: 7.5 | Flow Setting:

Date: 10/24/2017 | BOS: | Pressure: 80 | Total Volume Bailed (liters):

Weather: Sunny | Total Depth: | Flow: 250 mL/min

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1508		12.37	1138	10.42	7.55	24		
1513		11.80	1123	7.82	7.07	51		
1516		11.65	1105	7.57	6.96	61		
1519		11.63	1102	7.70	6.95	66		
1522		11.62	1100	7.70	6.93	70		
1525		11.59	1113	7.61	6.93	74		
1528	137.85	11.60	1104	7.64	6.92	77	1.52	

Notes / Observations (color, odor, anomalies, etc):

8151 taken here.

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gruber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: SE1D
Sample ID: 1017-27
Date: 10/25/2017
Weather: Overcast

139.60 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill: 8
Discharge: 7
Pressure: 90
Flow: 300 mL/min

One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? (Y) N
Locked? (Y) N
Water in Protector? (Y) N
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1718		11.30	953	6.77	7.92	105.8		
1723		10.58	957	6.27	7.81	108.5		
1726		10.42	957	2.35	7.71	98.5		
1729		10.40	955	1.51	7.80	73.7		
1732		10.37	955	0.92	7.93	17.5		
1735		10.36	956	0.76	8.00	-10.2		
1738	139.82	10.35	956	0.65	8.04	-33.2	2.83	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gomez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: SE15
Sample ID: 1017-23
Date: 10/25/2017
Weather: rainy

139.36 DTW
TOS
Intake
BOS
Total Depth

Sampling Method : Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 (YSI)
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 20 One Well Volume (liters) Other :
Discharge 10 Flow Setting :
Pressure 75 Total Volume Bailed (liters)
Flow 300 mL/min

Filtered? (Y) N Locked? (Y) N Water in Protector? (Y) N Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1630		10.44	866	6.09	7.74	82.7		
1635		10.32	867	4.81	7.68	81.5		
1638		10.20	867	3.57	7.61	80.8		
1641		10.13	867	3.40	7.60	80.7		
1644		10.17	867	3.25	7.59	80.6		
1647		10.17	867	3.20	7.58	81.6		
1650	139.45	10.17	867	3.15	7.58	83.0	1.31	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10 | Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Site: Island County | Meter: MP-20 / YSI | CONTROL SETTINGS: | 1 ft water = 0.62L | 1L = 0.24 gallons

Well ID: 1025 | 148.00 DTW | TOS | Intake | BOS | Total Depth | Refill 9 | Discharge 6 | Pressure 80 | Flow 200 ml/min | One Well Volume (liters) | Total Volume Bailed (liters) | Other: | Flow Setting:

Sample ID: 1017-29

Date: 10/24/2017

Weather: Sunny

Filtered? (Y) N | Locked? (Y) N | Water in Protector? Y (N) | Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1713		11.31	842	9.41	7.65	137		
1718		10.62	926	8.57	7.30	139		
1721		10.50	933	7.99	7.16	137		
1724		10.48	938	7.69	7.12	136		
1727		10.46	941	7.55	7.12	134		
1730		10.44	939	7.48	7.11	131		
1733	148.04	10.43	934	7.43	7.11	130	1.20	

Notes / Observations (color, odor, anomalies, etc):

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber (Printed Name) _____ (Signature)

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: WR1
Sample ID: 1017-30
Date: 10/24/2017
Weather: Sunny

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

DTW
TOS
Intake
BOS
Total Depth

CONTROL SETTINGS:
Refill
Discharge
Pressure
Flow

1 ft water = 0.62L
1L = 0.24 gallons

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? (Y) N
Locked? Y (N)
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1630		11.11	860	2.44	7.26	165	1.94	

Notes / Observations (color, odor, anomalies, etc):

Purged pump for 10 min

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: ESD
Sample ID: 1017-95
Date: 10/25/2017
Weather: Cloudy

144.71 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 100
Flow 75 mL/min

1 ft water = 0.62L
1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N)
Locked? (Y) N
Water in Protector? Y (N)
Damage? Y (N)

Sample Containers:
1000 ml Poly
500 ml Poly
250 ml Poly
125 ml Poly
500 ml HNO3 x2
500 ml H2SO4 x2
40 ml VOA x3 x6
1000 ml Amber
125 ml NaOH

Notes / Observations (color, odor, anomalies, etc):
Split taken at 1017-50

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1359		13.00	1005	6.41	7.73	155.5		
1404		12.41	1091	3.82	7.76	28.2		
1409		11.88	1161	1.51	7.82	-46.4		
1406		11.97	1181	1.11	7.81	-75.4		
1409		11.96	1198	0.81	7.82	-109.5		
1412		11.92	1203	0.69	7.82	-113.6		
1415		11.90	1205	0.61	7.82	-116.6	1.60	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gebo
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E60
Sample ID: 1017 - 96
Date: 10/25/2017
Weather: rainy

14.74 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10
Discharge 10
Pressure 100
Flow 75 ml/min
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1530		14.79	666	3.98	7.91	82.7		
1535		14.72	677	1.20	8.08	-109.0		
1538		14.71	676	1.02	8.07	-115.5		
1541		14.70	676	0.85	8.07	-127.0		
1544		14.67	676	0.70	8.06	-136.6		
1547		14.67	678	0.63	8.06	-135.1		
1550		14.66	676	0.58	8.07	-137.0	1.32	

Notes / Observations (color, odor, anomalies, etc):

Split as 1017 - 51 @ 1550

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Barbo
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E70
Sample ID: 1017 - 97
Date: 10/24/2017
Weather: sunny

145.72 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other

Meter: MP-20 / YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons

Refill 10
Discharge 10
Pressure 100
Flow 100 ML/min

One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? Y (N) Water in Protector? (Y) N Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1052		14.01	1739	7.90	7.41	81		
1057		14.32	1510	3.72	6.99	49		
1100		14.33	1570	~~6.89~~ 2.50	6.82	-21		
1103		14.35	1640	1.81	6.75	-73		
1106		14.36	1690	1.30	6.63	-148		
1109		14.76	1710	0.96	6.60	-176		
1112		14.55	1710	0.87	6.58	-185	1.12	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Gratton
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E8D
Sample ID: 1017 - 98
Date: 10/ 25 /2017
Weather: rainy

148.43 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.24 gallons
Refill 10 One Well Volume (liters) Other:
Discharge 10 Flow Setting:
Pressure 100 Total Volume Bailed (liters)
Flow 75 mL/min

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:
1000 ml Poly | 500 ml Poly | 250 ml Poly | 125 ml Poly
500 ml HNO3 x2 | 500 ml H2SO4 x2 | 40 ml VOA x3 x6 | 1000 ml Amber
125 ml NaOH

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1445		12.14	318	7.88	8.23	79.8		
1450		10.74	573	6.13	7.66	89.9		
1453		10.72	572	4.99	7.59	87.6		
1456		10.71	571	2.53	7.53	73.9		
1459		10.70	572	1.86	7.54	65.7		
1502		10.71	572	1.33	7.55	56.3		
1505	148.51	10.71	573	1.15	7.56	46.0	2.21	

Notes / Observations (color, odor, anomalies, etc):

split taken as 1017 - 52 @ 1505

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E9 D
Sample ID: 1017-99
Date: 10/24/2017
Weather: Sunny

161.53 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 | YSI

CONTROL SETTINGS: (1 ft water = 0.62L; 1L = 0.24 gallons)
Refill: 9
Discharge: 11
Pressure: 100
Flow: 120 mL/min
One Well Volume (liters):
Total Volume Bailed (liters):
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1145		12.01	561	9.14	7.86	43		
1150		10.97	539	6.16	7.89	15		
1153		10.70	540	3.80	8.23	-222		
1156		10.69	536	3.17	8.32	-231		
1159		10.67	537	2.51	8.37	-252		
1202		10.66	538	1.96	8.42	-267	11.5	
1205		10.69	535	1.63	8.41	-272	8.05	
1208		10.76	535	1.45	8.39	-274	6.56	
1211		10.94	534	1.33	8.36	-274	5.81	
1214	161.60	11.06	535	1.19	8.34	-277	4.93	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Sam Baker
Printed Name

Signature

SCS ENGINEERS
2405 140th ave NE #107
Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04207033.10
Site: Island County
Well ID: E10D
Sample ID: 1017 - 100
Date: 10/24/2017
Weather: Sunny

162.74 DTW
TOS
Intake
BOS
Total Depth

Sampling Method: Dedicated | 1.75" QED SamplePro | Bail | Peristaltic | Grab | Other
Meter: MP-20 YSI
CONTROL SETTINGS:
Refill 8
Discharge 12
Pressure 105
Flow 75 mL/min
1 ft water = 0.62L 1L = 0.24 gallons
One Well Volume (liters)
Total Volume Bailed (liters)
Other:
Flow Setting:

Filtered? Y (N) Locked? (Y) N Water in Protector? Y (N) Damage? Y (N)

Sample Containers:

1000 ml Poly	500 ml Poly	250 ml Poly	125 ml Poly
500 ml HNO3 x2	500 ml H2SO4 x2	40 ml VOA x3 x6	1000 ml Amber
125 ml NaOH			

Notes / Observations (color, odor, anomalies, etc):
10:

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
943		9.14	810	6.45	7.63	190.4		
948		9.41	838	6.39	7.73	184.6		
951		9.88	846	6.39	7.78	181.7		
954		9.87	912	6.98	7.83	178.9		
957		9.97	916	6.47	7.84	177.6		
1000		10.03	916	6.41	7.84	175.9		
1003		10.08	926	6.12	7.83	172.5	17.7	
1009		9.81	834	8.47	7.96	50.1	9.42	
1015		10.07	939	4.57	7.99	-23.9	8.24	
1021		10.05	939	4.03	8.01	-67.4	7.03	
1027	162.75	10.00	939	3.01	7.99	-96.3	7.98	

Stabilization Parameters: pH/DO ± 0.2, SpC ± 10%, Temp ± 0.5°C, Turb. ± 10% or ≤ 5

SAMPLER: Alexa Depp
Printed Name

Alexa Depp
Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/23/17					
Time	915					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1401	3.96	7.03	8.50 ↓		
Post Cal Reading	1413	4.01	7.00	9.56	791, 99.6, 19.1, 0.23	
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/23/17					
Time	910					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1399	3.99	7.01	8.56		
Post Cal Reading	1413	4.01	7.00	8.46	990, 9.5, 0.45	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID		(MP20) / YSI 556			(MicoTPW / HACH2000)	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/24/17					
Time	810					
Weather (sky or precip, temp)	sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	(1000, 10, 0.2) 800, 100, 20, <0.1	
Pre-Cal Reading	1530	4.41	7.21	12.41		
Post Cal Reading	1410	4.01	7.00		971, 4.4, 0.52	
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	SEG					
Instrument Type, ID	(MP20) / YSI 556				(MicoTPW) / HACH2000	
Calibration Location	Island Co.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/24/17					
Time	810					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1365	4.06	7.03	10.51		
Post Cal Reading	1413	4.01	7.00	8.50	788, 95.4, 18.1, 0.91	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Island Co.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/25/17					
Time	825					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1446	4.14	6.83	8.09	9.75, 4.41, 0.13	
Post Cal Reading	1413	4.01	7.0	8.5		
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	T.C.					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	T.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/26/17					
Time	815					
Weather (sky or precip, temp)	overcast					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1428	4.09	7.00	8.39		
Post Cal Reading	1413	4.01	7.00	8.50	721, 105, 24.3, 2.81	
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEG					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	I.C.					

* If Direct Reading is Unavailable, Assume pressure = 760 mm - 2.5 (altitude in ft/100)

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.10	**TASK NO.**	1,2,3	**DATE**	11-8-17	**PROJECT NAME**	Island County Landfill
TEMP	55	**BARO**	29.61	**WIND**	1 MPH E	**WEATHER**	Clear

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	2	Project Foreman	10	
			DAILY TOTAL	10	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	10	$185.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	13364	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	71327	3.1	5.95'	SV	0.5" H2O	50% Open
Blower # 2	98058	3.7		LFG	1.4" H2O	50% Open

Propane Tank Level	Propane Line PSI
35% Full	12

SUMMARY	0740 onsite to monitor the Extraction wells and Gas Probes.
0745 SDG calibrating the Gem – 2000.	
0759 SDG Monitoring the perimeter Gas Probes.	
1152 SDG monitoring the Extraction Wells.	
1242 SDG completed monitoring the Extraction Wells.	
1505 Monitoring complete	
1520 Post Calibration of the Gem – 2000.	
1540 SDG offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 11-8-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.10

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: E Barometric Pressure: 29.61" Hg

Air Temperature: 55° F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
0745	49.8%	35.0%	20.8%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
1520	49.9%	34.8%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.10	**TASK NO.**	1,2,3	**DATE**	11-9-17	**PROJECT NAME**	Island County Landfill
TEMP	57	**BARO**	29.48	**WIND**	7 MPH E	**WEATHER**	Rain

SCS-FS LABOR	HOURS	OT		HOURS	OT
Simon Garibaldo	8	2	Project Foreman	10	
			DAILY TOTAL	10	

EQUIP, SVCS, MTLS, MLG	QTY	UNITS		QTY	UNITS
Service Truck	1	$18.50 Hourly	SCS Field Service	10	$185.00
Gem - 2000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 2000	13364	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2			5.95'	SV LFG		50% Open 50% Open

Propane Tank Level	Propane Line PSI					
35% Full	12					

SUMMARY	0820 SDG onsite to make 4 Extraction Well Adjustments.
0825 SDG calibrating the Gem – 2000.	
0856 SDG making Well Adjustments.	
0925 SDG completed the Adjustments.	
0935 Post calibration of the Gem – 2000.	
0945 SDG offsite.	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 2000 CALIBRATION AND PERTINENT DATA

Date: 11-9-17 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.10

WEATHER OBSERVATIONS

Wind Speed: 7 MPH Wind Direction: E Barometric Pressure: 29.48" Hg

Air Temperature: 57° F General Weather Conditions: Rain

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make a total of three measurements by alternating zero air and the calibration gas. Record the readings and calculate the average algebraic difference between the instrument reading and the calibration gas as a percentage. The calibration precision must be less than or equal to 2% of the calibration gas value.

Instrument Serial No. 13664

Calibration Gas: %CH4 - 50.0% %CO2 - 35.0% %O2 - 20.9%

Time	CH4	CO2	O2
0825	49.9%	35.0%	20.8%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
0935	49.9%	34.9%	20.9%

NOTES:

APPENDIX B

2017 ANAYTICAL DATA VALIDATION AND LABORATORY REPORTS (LAB DATA REPORTS ON ATTACHED CD)

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 1Q 2017

Project Details

Project No.	04207033.10	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Graber	**Data Level**	Level II
Date	4/13/2017	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-65692-1	Samples arrived in good condition. Six 8260C samples were analyzed outside of holding time due to TA instrument contamination. Due to this, SCS resampled these locations and the resample data is included in report 580-66539-1.	Test America
580-65638-1	Samples arrived in good condition.	Test America
580-65746-1	Samples arrived in good condition.	Test America
580-66539-1	Samples arrived in good condition.	Test America
17-01887	Samples arrived in good condition.	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-65692-1	X	X	X	X	X	X	-
580-65638-1	X	X	X	X	X	X	X
580-65746-1	X	X	X	X	X	X	-
580-66539-1	-	-	X	-	-	-	-
17-01887	-	-	X	-	-	-	-

X = Analysis performed on at least one sample in sample group.

- = Analysis not performed on any sample in sample group.

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-65692-1, 580-65638-1, 580-65746-1, 580-66539-1, and 17-01887)
LCS/LCSD	Acceptable	See case narrative (580-65692-1, 580-65638-1, 580-65746-1, 580-66539-1, and 17-01887)
Duplicates	Acceptable	See case narrative (580-65692-1, 580-65638-1, 580-65746-1, 580-66539-1, and 17-01887)
MS/MSD	Acceptable	See case narrative (580-65692-1, 580-65638-1, 580-65746-1, 580-66539-1, and 17-01887)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.
Trip Blank	580-65692-1	None.	No detections.
Trip Blank	580-65746-1	None.	No detections.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S (0117-19)**	**C1S DUP (0117-31)**	**RPD (%)**	**N3D (0117-20)**	**N3D DUP (0117-32)**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.54	0.52	2.5	0.2 U	0.2 U	0
Alkalinity	mg/L	450	450	0.0	250	250	0
Arsenic	mg/L	0.0024	0.0024	0.0	0.008	0.0083	2.5
Barium	mg/L	0.04	0.039	1.7	0.026	0.027	2.5
Bicarbonate	mg/L	450	450	0.0	250	250	0
Calcium	mg/L	160	150	4.3	69	68	1.0
Chemical Oxygen Demand	mg/L	15	15	0.0	130	10 U	88.9
Chloride	mg/L	5.5	4.4	14.3	35	35	0
Chromium	mg/L	0.0094	0.0091	2.2	0.0004	0.00045	8
cis-1,2-Dichloroethylene	ug/L	0.34	0.33	2.0	0.2 U	0.2 U	0
Magnesium	mg/L	60	56	4.5	25	25	0
Manganese	mg/L	0.02 U	0.02 U	0.0	0.028	0.027	2.4
Nickel	mg/L	0.0066	0.0063	3.1	0.003 U	0.003 U	0
Nitrate/Nitrite, Total	mg/L	4.5	4.6	1.5	0.052	0.05 U	2.6
Potassium	mg/L	6.3	5.9	4.3	6.1	6.2	1.1
Sodium	mg/L	32	30	4.3	22	22	0
Sulfate	mg/L	190	200	3.4	22	22	0
Total Dissolved Solids	mg/L	840	830	0.8	390	390	0
Total Organic Carbon	mg/L	7.3	7.4	0.9	1 U	1 U	0
Trichloroethylene	ug/L	0.21	0.2	3.2	0.2 U	0.2 U	0
Trichlorofluoromethane	ug/L	4.9	5	1.4	0.5 U	0.5 U	0
Vanadium	mg/L	0.004	0.004 U	0.0	0.004 U	0.004 U	0

U = Reporting limit used in place of a non-detection for the given parameter to allow for calculation.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
*	RPD of the LCS and LCSD exceed the control limits	580-65692-1, 580-65638-1, 580-65746-1
F1	MS and/or MSD Recovery is outside acceptance limits.	580-65692-1, 580-65638-1, 580-65746-1
B	Compound was found in the blank and sample.	580-65746-1
H	Sample was prepped or analyzed beyond the specified holding time.	580-65638-1, 580-65746-1

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-65638-1
Client Project/Site: Coupeville Solid Waste Facility
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
4/5/2017 10:58:41 AM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 580-65638-1

Laboratory: TestAmerica Seattle

Narrative

Report Revision; Client would like to report to the RL and not the MDL.

Receipt
The samples were received on 1/25/2017 5:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.8º C, 2.0º C, 2.6º C, 2.6º C and 3.3º C.

Receipt Exceptions

Trip blanks were submitted with these samples; however, they were not listed on the Chain of Custody (COC). The trip blank was logged in for analysis per client request, Sample: #14, Trip Blank.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-237819 recovered above the upper control limit for trans-1,4-Dichloro-2-butene and 1,1,2,2-Tetrachloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0117-21 (580-65638-1), 0117-20 (580-65638-2), 0117-15 (580-65638-3), 0117-16 (580-65638-4), 0117-26 (580-65638-5), 0117-32 (580-65638-6) and (CCVIS 580-237819/2).

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-237819 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-237825 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, trans-1,4-Dichloro-2-butene and Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0117-14 (580-65638-7), 0117-19 (580-65638-8), 0117-31 (580-65638-9), 0117-06 (580-65638-10), 0117-07 (580-65638-11), 0117-02 (580-65638-12), 0117-13 (580-65638-13), TRIP BLANK (580-65638-14) and (CCVIS 580-237825/2).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-237825 recovered outside acceptance criteria, low biased, for 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, Hexachlorobutadiene, Vinyl acetate and Naphthalene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-237825 was outside criteria for the following analyte(s): 1,2,4-Trichlorobenzene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-237825 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane and Chloroethane(LCS only). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for analytical batch 580-237825 recovered outside control limits for the following analytes: Acetone. The individual recoveries met the acceptance criteria.

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

GC/MS Semi VOA
Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 580-237512 recovered above the upper control limit for Dalapon and 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8151A: Surrogate 2,4-Dichlorophenylacetic acid was outside of recovery limits in the below method blank. The batch was re-extracted out-of-hold, therefore both sets of data have been reported. 0117-26 (580-65638-5) and (MB 580-237389/1-A)

Method(s) 8151A: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 580-237389 and analytical batch 580-237512 recovered outside control limits for the following analyte: Dalapon. Dalapon has been

Job ID: 580-65638-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

identified as a poor performing analyte when analyzed using this method; an out-of-hold re-extraction/re-analysis was performed with improved results in the LCS. The LCSD 580-237943/3-A recovered outside of the control limits for the re-extraction. Both results have been reported and qualified.

Method(s) 8151A: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-237389 recovered outside control limits for multiple analytes. The individual recoveries met the acceptance criteria.

Method(s) 8151A: The method blank for preparation batch 580-237943 and analytical batch 580-238011 contained 2,4-D above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8151A: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-237943 and 580-237943 recovered outside control limits for the following analytes: Dalapon.

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

Metals
Sodium was detected in the method blank MB 580-237313/14-A greater than the method detection limit but less than the reporting limit; therefore the data have been reported.

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

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

Organic Prep
Method(s) 8151A: The following sample only had 140g of the method prescribed 200g of NaCl due to excess provided sample volume: 0117-26 (580-65638-5)

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client Sample ID: 0117-21
Date Collected: 01/23/17 11:23
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/05/17 01:21	1
Vinyl chloride	ND		0.020		ug/L			02/05/17 01:21	1
Bromomethane	ND		1.0		ug/L			02/05/17 01:21	1
Chloroethane	ND		0.50		ug/L			02/05/17 01:21	1
Trichlorofluoromethane	**1.2**		0.50		ug/L			02/05/17 01:21	1
1,1-Dichloroethene	ND		0.10		ug/L			02/05/17 01:21	1
Methyl iodide	ND		0.50		ug/L			02/05/17 01:21	1
Carbon disulfide	ND		0.20		ug/L			02/05/17 01:21	1
Acetone	ND		2.0		ug/L			02/05/17 01:21	1
Methylene Chloride	ND		0.50		ug/L			02/05/17 01:21	1
Acrylonitrile	ND		5.0		ug/L			02/05/17 01:21	1
Vinyl acetate	ND		1.0		ug/L			02/05/17 01:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 01:21	1
1,1-Dichloroethane	ND		0.20		ug/L			02/05/17 01:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 01:21	1
2-Butanone	ND		15		ug/L			02/05/17 01:21	1
Bromochloromethane	ND		0.20		ug/L			02/05/17 01:21	1
Chloroform	ND		0.20		ug/L			02/05/17 01:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/05/17 01:21	1
Carbon tetrachloride	ND		0.20		ug/L			02/05/17 01:21	1
Benzene	ND		0.20		ug/L			02/05/17 01:21	1
1,2-Dichloroethane	ND		0.20		ug/L			02/05/17 01:21	1
Trichloroethene	ND		0.20		ug/L			02/05/17 01:21	1
1,2-Dichloropropane	ND		0.20		ug/L			02/05/17 01:21	1
Dibromomethane	ND		0.20		ug/L			02/05/17 01:21	1
Bromodichloromethane	ND		0.20		ug/L			02/05/17 01:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/05/17 01:21	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/05/17 01:21	1
Toluene	ND		0.20		ug/L			02/05/17 01:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/05/17 01:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/05/17 01:21	1
Tetrachloroethene	ND		0.50		ug/L			02/05/17 01:21	1
2-Hexanone	ND		2.0		ug/L			02/05/17 01:21	1
Dibromochloromethane	ND		0.20		ug/L			02/05/17 01:21	1
1,2-Dibromoethane	ND		0.10		ug/L			02/05/17 01:21	1
Chlorobenzene	ND		0.20		ug/L			02/05/17 01:21	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 01:21	1
Ethylbenzene	ND		0.20		ug/L			02/05/17 01:21	1
m,p-Xylene	ND		0.50		ug/L			02/05/17 01:21	1
o-Xylene	ND		0.50		ug/L			02/05/17 01:21	1
Styrene	ND		0.50		ug/L			02/05/17 01:21	1
Bromoform	ND		0.50		ug/L			02/05/17 01:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 01:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/05/17 01:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/05/17 01:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/05/17 01:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/05/17 01:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/05/17 01:21	1

Client Sample ID: 0117-21
Date Collected: 01/23/17 11:23
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/05/17 01:21*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*02/05/17 01:21*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*02/05/17 01:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*02/05/17 01:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*02/05/17 01:21*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		01/26/17 15:29	01/27/17 13:02	1
Iron	ND		0.30		mg/L		01/26/17 15:29	01/27/17 13:02	1
Magnesium	**49**		1.1		mg/L		01/26/17 15:29	01/27/17 13:02	1
Manganese	ND		0.020		mg/L		01/26/17 15:29	01/27/17 13:02	1
Potassium	**6.4**		3.3		mg/L		01/26/17 15:29	01/27/17 13:02	1
Sodium	**30**		2.0		mg/L		01/26/17 15:29	01/27/17 13:02	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00041**		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Arsenic	**0.0033**		0.0010		mg/L		01/26/17 15:29	01/27/17 15:42	1
Barium	**0.033**		0.0012		mg/L		01/26/17 15:29	01/27/17 15:42	1
Beryllium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Cadmium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Chromium	**0.010**		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Cobalt	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Copper	ND		0.0020		mg/L		01/26/17 15:29	01/27/17 15:42	1
Lead	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Nickel	ND		0.0030		mg/L		01/26/17 15:29	01/27/17 15:42	1
Selenium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 15:42	1
Silver	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Thallium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 15:42	1
Vanadium	**0.0062**		0.0040		mg/L		01/26/17 15:29	01/27/17 15:42	1
Zinc	ND		0.0070		mg/L		01/26/17 15:29	01/27/17 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**6.1**		0.25		mg/L			02/08/17 12:55	5
Total Organic Carbon	**1.1**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 13:12	1
Chloride	**35**		0.90		mg/L			01/31/17 13:12	1
Sulfate	**40**		1.2		mg/L			01/31/17 13:12	1
Alkalinity	**460**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**460**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**630**		20	20	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-20
Date Collected: 01/23/17 12:27
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/05/17 01:46	1
Vinyl chloride	ND		0.020		ug/L			02/05/17 01:46	1
Bromomethane	ND		1.0		ug/L			02/05/17 01:46	1
Chloroethane	ND		0.50		ug/L			02/05/17 01:46	1
Trichlorofluoromethane	ND		0.50		ug/L			02/05/17 01:46	1
1,1-Dichloroethene	ND		0.10		ug/L			02/05/17 01:46	1
Methyl iodide	ND		0.50		ug/L			02/05/17 01:46	1
Carbon disulfide	ND		0.20		ug/L			02/05/17 01:46	1
Acetone	ND		2.0		ug/L			02/05/17 01:46	1
Methylene Chloride	ND		0.50		ug/L			02/05/17 01:46	1
Acrylonitrile	ND		5.0		ug/L			02/05/17 01:46	1
Vinyl acetate	ND		1.0		ug/L			02/05/17 01:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 01:46	1
1,1-Dichloroethane	ND		0.20		ug/L			02/05/17 01:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 01:46	1
2-Butanone	ND		15		ug/L			02/05/17 01:46	1
Bromochloromethane	ND		0.20		ug/L			02/05/17 01:46	1
Chloroform	ND		0.20		ug/L			02/05/17 01:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/05/17 01:46	1
Carbon tetrachloride	ND		0.20		ug/L			02/05/17 01:46	1
Benzene	ND		0.20		ug/L			02/05/17 01:46	1
1,2-Dichloroethane	ND		0.20		ug/L			02/05/17 01:46	1
Trichloroethene	ND		0.20		ug/L			02/05/17 01:46	1
1,2-Dichloropropane	ND		0.20		ug/L			02/05/17 01:46	1
Dibromomethane	ND		0.20		ug/L			02/05/17 01:46	1
Bromodichloromethane	ND		0.20		ug/L			02/05/17 01:46	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/05/17 01:46	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/05/17 01:46	1
Toluene	ND		0.20		ug/L			02/05/17 01:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/05/17 01:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/05/17 01:46	1
Tetrachloroethene	ND		0.50		ug/L			02/05/17 01:46	1
2-Hexanone	ND		2.0		ug/L			02/05/17 01:46	1
Dibromochloromethane	ND		0.20		ug/L			02/05/17 01:46	1
1,2-Dibromoethane	ND		0.10		ug/L			02/05/17 01:46	1
Chlorobenzene	ND		0.20		ug/L			02/05/17 01:46	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 01:46	1
Ethylbenzene	ND		0.20		ug/L			02/05/17 01:46	1
m,p-Xylene	ND		0.50		ug/L			02/05/17 01:46	1
o-Xylene	ND		0.50		ug/L			02/05/17 01:46	1
Styrene	ND		0.50		ug/L			02/05/17 01:46	1
Bromoform	ND		0.50		ug/L			02/05/17 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 01:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/05/17 01:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/05/17 01:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/05/17 01:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/05/17 01:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/05/17 01:46	1

Client Sample ID: 0117-20

Date Collected: 01/23/17 12:27
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/05/17 01:46*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*02/05/17 01:46*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*02/05/17 01:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*02/05/17 01:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*02/05/17 01:46*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		01/26/17 15:29	01/27/17 13:05	1
Iron	ND		0.30		mg/L		01/26/17 15:29	01/27/17 13:05	1
Magnesium	**25**		1.1		mg/L		01/26/17 15:29	01/27/17 13:05	1
Manganese	**0.028**		0.020		mg/L		01/26/17 15:29	01/27/17 13:05	1
Potassium	**6.1**		3.3		mg/L		01/26/17 15:29	01/27/17 13:05	1
Sodium	**22**		2.0		mg/L		01/26/17 15:29	01/27/17 13:05	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Arsenic	**0.0080**		0.0010		mg/L		01/26/17 15:29	01/27/17 16:22	1
Barium	**0.026**		0.0012		mg/L		01/26/17 15:29	01/27/17 16:22	1
Beryllium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Cadmium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Chromium	**0.00040**		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Cobalt	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Copper	ND		0.0020		mg/L		01/26/17 15:29	01/27/17 16:22	1
Lead	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Nickel	ND		0.0030		mg/L		01/26/17 15:29	01/27/17 16:22	1
Selenium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 16:22	1
Silver	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Thallium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 16:22	1
Vanadium	ND		0.0040		mg/L		01/26/17 15:29	01/27/17 16:22	1
Zinc	ND		0.0070		mg/L		01/26/17 15:29	01/27/17 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**0.052**		0.050		mg/L			02/08/17 12:59	1
Total Organic Carbon	ND		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 13:27	1
Chloride	**35**		0.90		mg/L			01/31/17 13:27	1
Sulfate	**22**		1.2		mg/L			01/31/17 13:27	1
Alkalinity	**250**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**390**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	**130**		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client Sample ID: 0117-15
Date Collected: 01/23/17 14:05
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/05/17 02:12	1
Vinyl chloride	ND		0.020		ug/L			02/05/17 02:12	1
Bromomethane	ND		1.0		ug/L			02/05/17 02:12	1
Chloroethane	ND		0.50		ug/L			02/05/17 02:12	1
Trichlorofluoromethane	ND		0.50		ug/L			02/05/17 02:12	1
1,1-Dichloroethene	ND		0.10		ug/L			02/05/17 02:12	1
Methyl iodide	ND		0.50		ug/L			02/05/17 02:12	1
Carbon disulfide	ND		0.20		ug/L			02/05/17 02:12	1
Acetone	ND		2.0		ug/L			02/05/17 02:12	1
Methylene Chloride	ND		0.50		ug/L			02/05/17 02:12	1
Acrylonitrile	ND		5.0		ug/L			02/05/17 02:12	1
Vinyl acetate	ND		1.0		ug/L			02/05/17 02:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 02:12	1
1,1-Dichloroethane	ND		0.20		ug/L			02/05/17 02:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 02:12	1
2-Butanone	ND		15		ug/L			02/05/17 02:12	1
Bromochloromethane	ND		0.20		ug/L			02/05/17 02:12	1
Chloroform	ND		0.20		ug/L			02/05/17 02:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/05/17 02:12	1
Carbon tetrachloride	ND		0.20		ug/L			02/05/17 02:12	1
Benzene	ND		0.20		ug/L			02/05/17 02:12	1
1,2-Dichloroethane	ND		0.20		ug/L			02/05/17 02:12	1
Trichloroethene	ND		0.20		ug/L			02/05/17 02:12	1
1,2-Dichloropropane	ND		0.20		ug/L			02/05/17 02:12	1
Dibromomethane	ND		0.20		ug/L			02/05/17 02:12	1
Bromodichloromethane	ND		0.20		ug/L			02/05/17 02:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/05/17 02:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/05/17 02:12	1
Toluene	ND		0.20		ug/L			02/05/17 02:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/05/17 02:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/05/17 02:12	1
Tetrachloroethene	ND		0.50		ug/L			02/05/17 02:12	1
2-Hexanone	ND		2.0		ug/L			02/05/17 02:12	1
Dibromochloromethane	ND		0.20		ug/L			02/05/17 02:12	1
1,2-Dibromoethane	ND		0.10		ug/L			02/05/17 02:12	1
Chlorobenzene	ND		0.20		ug/L			02/05/17 02:12	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 02:12	1
Ethylbenzene	ND		0.20		ug/L			02/05/17 02:12	1
m,p-Xylene	ND		0.50		ug/L			02/05/17 02:12	1
o-Xylene	ND		0.50		ug/L			02/05/17 02:12	1
Styrene	ND		0.50		ug/L			02/05/17 02:12	1
Bromoform	ND		0.50		ug/L			02/05/17 02:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 02:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/05/17 02:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/05/17 02:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/05/17 02:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/05/17 02:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/05/17 02:12	1

Client Sample ID: 0117-15

Date Collected: 01/23/17 14:05
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/05/17 02:12*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*02/05/17 02:12*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*02/05/17 02:12*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*02/05/17 02:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/05/17 02:12*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		01/26/17 15:29	01/27/17 13:09	1
Iron	**0.35**		0.30		mg/L		01/26/17 15:29	01/27/17 13:09	1
Magnesium	**100**		1.1		mg/L		01/26/17 15:29	01/27/17 13:09	1
Manganese	**0.28**		0.020		mg/L		01/26/17 15:29	01/27/17 13:09	1
Potassium	**10**		3.3		mg/L		01/26/17 15:29	01/27/17 13:09	1
Sodium	**50**		2.0		mg/L		01/26/17 15:29	01/27/17 13:09	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Arsenic	**0.0059**		0.0010		mg/L		01/26/17 15:29	01/27/17 16:27	1
Barium	**0.10**		0.0012		mg/L		01/26/17 15:29	01/27/17 16:27	1
Beryllium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Cadmium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Chromium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Cobalt	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Copper	ND		0.0020		mg/L		01/26/17 15:29	01/27/17 16:27	1
Lead	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Nickel	**0.010**		0.0030		mg/L		01/26/17 15:29	01/27/17 16:27	1
Selenium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 16:27	1
Silver	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Thallium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 16:27	1
Vanadium	ND		0.0040		mg/L		01/26/17 15:29	01/27/17 16:27	1
Zinc	ND		0.0070		mg/L		01/26/17 15:29	01/27/17 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:01	1
Total Organic Carbon	**3.6**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 13:43	1
Chloride	**120**		9.0		mg/L			02/01/17 11:52	10
Sulfate	**120**		12		mg/L			02/01/17 11:52	10
Alkalinity	**500**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**500**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**940**		20	20	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-16
Date Collected: 01/23/17 15:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/05/17 02:37	1
Vinyl chloride	ND		0.020		ug/L			02/05/17 02:37	1
Bromomethane	ND		1.0		ug/L			02/05/17 02:37	1
Chloroethane	ND		0.50		ug/L			02/05/17 02:37	1
Trichlorofluoromethane	ND		0.50		ug/L			02/05/17 02:37	1
1,1-Dichloroethene	ND		0.10		ug/L			02/05/17 02:37	1
Methyl iodide	ND		0.50		ug/L			02/05/17 02:37	1
Carbon disulfide	ND		0.20		ug/L			02/05/17 02:37	1
Acetone	ND		2.0		ug/L			02/05/17 02:37	1
Methylene Chloride	ND		0.50		ug/L			02/05/17 02:37	1
Acrylonitrile	ND		5.0		ug/L			02/05/17 02:37	1
Vinyl acetate	ND		1.0		ug/L			02/05/17 02:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 02:37	1
1,1-Dichloroethane	ND		0.20		ug/L			02/05/17 02:37	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 02:37	1
2-Butanone	ND		15		ug/L			02/05/17 02:37	1
Bromochloromethane	ND		0.20		ug/L			02/05/17 02:37	1
Chloroform	ND		0.20		ug/L			02/05/17 02:37	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/05/17 02:37	1
Carbon tetrachloride	ND		0.20		ug/L			02/05/17 02:37	1
Benzene	ND		0.20		ug/L			02/05/17 02:37	1
1,2-Dichloroethane	ND		0.20		ug/L			02/05/17 02:37	1
Trichloroethene	ND		0.20		ug/L			02/05/17 02:37	1
1,2-Dichloropropane	ND		0.20		ug/L			02/05/17 02:37	1
Dibromomethane	ND		0.20		ug/L			02/05/17 02:37	1
Bromodichloromethane	ND		0.20		ug/L			02/05/17 02:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/05/17 02:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/05/17 02:37	1
Toluene	ND		0.20		ug/L			02/05/17 02:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/05/17 02:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/05/17 02:37	1
Tetrachloroethene	ND		0.50		ug/L			02/05/17 02:37	1
2-Hexanone	ND		2.0		ug/L			02/05/17 02:37	1
Dibromochloromethane	ND		0.20		ug/L			02/05/17 02:37	1
1,2-Dibromoethane	ND		0.10		ug/L			02/05/17 02:37	1
Chlorobenzene	ND		0.20		ug/L			02/05/17 02:37	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 02:37	1
Ethylbenzene	ND		0.20		ug/L			02/05/17 02:37	1
m,p-Xylene	ND		0.50		ug/L			02/05/17 02:37	1
o-Xylene	ND		0.50		ug/L			02/05/17 02:37	1
Styrene	ND		0.50		ug/L			02/05/17 02:37	1
Bromoform	ND		0.50		ug/L			02/05/17 02:37	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 02:37	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/05/17 02:37	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/05/17 02:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/05/17 02:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/05/17 02:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/05/17 02:37	1

Client Sample ID: 0117-16
Date Collected: 01/23/17 15:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/05/17 02:37*	*1*
Trifluorotoluene (Surr)	*107*		*74 - 118*		*02/05/17 02:37*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*02/05/17 02:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*81 - 120*		*02/05/17 02:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*02/05/17 02:37*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**34**		1.1		mg/L		01/26/17 15:29	01/27/17 13:12	1
Iron	ND		0.30		mg/L		01/26/17 15:29	01/27/17 13:12	1
Magnesium	**32**		1.1		mg/L		01/26/17 15:29	01/27/17 13:12	1
Manganese	ND		0.020		mg/L		01/26/17 15:29	01/27/17 13:12	1
Potassium	ND		3.3		mg/L		01/26/17 15:29	01/27/17 13:12	1
Sodium	**11**		2.0		mg/L		01/26/17 15:29	01/27/17 13:12	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Arsenic	**0.0023**		0.0010		mg/L		01/26/17 15:29	01/27/17 16:31	1
Barium	**0.014**		0.0012		mg/L		01/26/17 15:29	01/27/17 16:31	1
Beryllium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Cadmium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Chromium	**0.0027**		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Cobalt	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Copper	ND		0.0020		mg/L		01/26/17 15:29	01/27/17 16:31	1
Lead	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Nickel	**0.0070**		0.0030		mg/L		01/26/17 15:29	01/27/17 16:31	1
Selenium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 16:31	1
Silver	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Thallium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 16:31	1
Vanadium	**0.0047**		0.0040		mg/L		01/26/17 15:29	01/27/17 16:31	1
Zinc	ND		0.0070		mg/L		01/26/17 15:29	01/27/17 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**3.8**		0.25		mg/L			02/08/17 13:02	5
Total Organic Carbon	**1.7**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 13:58	1
Chloride	**4.7**		0.90		mg/L			01/31/17 13:58	1
Sulfate	**12**		1.2		mg/L			01/31/17 13:58	1
Alkalinity	**200**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**200**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**290**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-26
Date Collected: 01/23/17 16:17
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/05/17 03:02	1
Vinyl chloride	ND		0.020		ug/L			02/05/17 03:02	1
Bromomethane	ND		1.0		ug/L			02/05/17 03:02	1
Chloroethane	ND		0.50		ug/L			02/05/17 03:02	1
Trichlorofluoromethane	**1.8**		0.50		ug/L			02/05/17 03:02	1
1,1-Dichloroethene	ND		0.10		ug/L			02/05/17 03:02	1
Methyl iodide	ND		0.50		ug/L			02/05/17 03:02	1
Carbon disulfide	ND		0.20		ug/L			02/05/17 03:02	1
Acetone	ND		2.0		ug/L			02/05/17 03:02	1
Methylene Chloride	ND		0.50		ug/L			02/05/17 03:02	1
Acrylonitrile	ND		5.0		ug/L			02/05/17 03:02	1
Vinyl acetate	ND		1.0		ug/L			02/05/17 03:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 03:02	1
1,1-Dichloroethane	ND		0.20		ug/L			02/05/17 03:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 03:02	1
2-Butanone	ND		15		ug/L			02/05/17 03:02	1
Bromochloromethane	ND		0.20		ug/L			02/05/17 03:02	1
Chloroform	ND		0.20		ug/L			02/05/17 03:02	1
1,1,1-Trichloroethane	**0.26**		0.20		ug/L			02/05/17 03:02	1
Carbon tetrachloride	ND		0.20		ug/L			02/05/17 03:02	1
Benzene	ND		0.20		ug/L			02/05/17 03:02	1
1,2-Dichloroethane	ND		0.20		ug/L			02/05/17 03:02	1
Trichloroethene	ND		0.20		ug/L			02/05/17 03:02	1
1,2-Dichloropropane	ND		0.20		ug/L			02/05/17 03:02	1
Dibromomethane	ND		0.20		ug/L			02/05/17 03:02	1
Bromodichloromethane	ND		0.20		ug/L			02/05/17 03:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/05/17 03:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/05/17 03:02	1
Toluene	ND		0.20		ug/L			02/05/17 03:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/05/17 03:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/05/17 03:02	1
Tetrachloroethene	ND		0.50		ug/L			02/05/17 03:02	1
2-Hexanone	ND		2.0		ug/L			02/05/17 03:02	1
Dibromochloromethane	ND		0.20		ug/L			02/05/17 03:02	1
1,2-Dibromoethane	ND		0.10		ug/L			02/05/17 03:02	1
Chlorobenzene	ND		0.20		ug/L			02/05/17 03:02	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 03:02	1
Ethylbenzene	ND		0.20		ug/L			02/05/17 03:02	1
m,p-Xylene	ND		0.50		ug/L			02/05/17 03:02	1
o-Xylene	ND		0.50		ug/L			02/05/17 03:02	1
Styrene	ND		0.50		ug/L			02/05/17 03:02	1
Bromoform	ND		0.50		ug/L			02/05/17 03:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 03:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/05/17 03:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/05/17 03:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/05/17 03:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/05/17 03:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/05/17 03:02	1

Client Sample ID: 0117-26

Date Collected: 01/23/17 16:17
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/05/17 03:02*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*02/05/17 03:02*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*02/05/17 03:02*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*02/05/17 03:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*02/05/17 03:02*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	*	0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
2,4-D	ND	*	0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
2,4-DB	ND	*	0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
4-Nitrophenol	ND		0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
Dalapon	ND	*	0.40		ug/L		01/30/17 15:57	02/01/17 12:36	1
Dicamba	**0.89**	*	0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
Dichlorprop	ND	*	0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
Dinoseb	ND		0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
MCPA	ND	*	0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
Mecoprop	ND		0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
Pentachlorophenol	ND		0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		01/30/17 15:57	02/01/17 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*56*		*51 - 150*	*01/30/17 15:57*	*02/01/17 12:36*	*1*

Method: 8151A - Herbicides (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
2,4-D	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
2,4-DB	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
4-Nitrophenol	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
Dalapon	ND	H *	0.41		ug/L		02/07/17 15:18	02/08/17 16:45	1
Dicamba	**1.6**	**H**	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
Dichlorprop	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
Dinoseb	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
MCPA	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
Mecoprop	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
Pentachlorophenol	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1
Silvex (2,4,5-TP)	ND	H	0.25		ug/L		02/07/17 15:18	02/08/17 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	*117*		*51 - 150*	*02/07/17 15:18*	*02/08/17 16:45*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		01/27/17 08:54	01/27/17 16:50	1
Iron	ND		0.30		mg/L		01/27/17 08:54	01/27/17 16:50	1
Magnesium	**46**		1.1		mg/L		01/27/17 08:54	01/27/17 16:50	1
Manganese	ND		0.020		mg/L		01/27/17 08:54	01/27/17 16:50	1
Potassium	**6.1**		3.3		mg/L		01/27/17 08:54	01/27/17 16:50	1
Sodium	**27**		2.0		mg/L		01/27/17 08:54	01/27/17 16:50	1

Client Sample ID: 0117-26
Date Collected: 01/23/17 16:17
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-5
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00051**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Arsenic	**0.0024**		0.0010		mg/L		01/27/17 08:54	01/30/17 15:08	1
Barium	**0.033**		0.0012		mg/L		01/27/17 08:54	01/30/17 15:08	1
Beryllium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Cadmium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Chromium	**0.014**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Cobalt	**0.00057**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Copper	ND		0.0020		mg/L		01/27/17 08:54	01/30/17 15:08	1
Lead	**0.00052**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Nickel	**0.0074**		0.0030		mg/L		01/27/17 08:54	01/30/17 15:08	1
Selenium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:08	1
Silver	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Thallium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:08	1
Vanadium	**0.0047**		0.0040		mg/L		01/27/17 08:54	01/30/17 15:08	1
Zinc	ND		0.0070		mg/L		01/27/17 08:54	01/30/17 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**13**		0.50		mg/L			02/08/17 13:05	10
Total Organic Carbon	**1.1**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 14:13	1
Chloride	**95**		0.90		mg/L			01/31/17 14:13	1
Sulfate	**38**		1.2		mg/L			01/31/17 14:13	1
Alkalinity	**360**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**660**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-32
Date Collected: 01/23/17 12:45
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/05/17 03:27	1
Vinyl chloride	ND		0.020		ug/L			02/05/17 03:27	1
Bromomethane	ND		1.0		ug/L			02/05/17 03:27	1
Chloroethane	ND		0.50		ug/L			02/05/17 03:27	1
Trichlorofluoromethane	ND		0.50		ug/L			02/05/17 03:27	1
1,1-Dichloroethene	ND		0.10		ug/L			02/05/17 03:27	1
Methyl iodide	ND		0.50		ug/L			02/05/17 03:27	1
Carbon disulfide	ND		0.20		ug/L			02/05/17 03:27	1
Acetone	ND		2.0		ug/L			02/05/17 03:27	1
Methylene Chloride	ND		0.50		ug/L			02/05/17 03:27	1
Acrylonitrile	ND		5.0		ug/L			02/05/17 03:27	1
Vinyl acetate	ND		1.0		ug/L			02/05/17 03:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 03:27	1
1,1-Dichloroethane	ND		0.20		ug/L			02/05/17 03:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/05/17 03:27	1
2-Butanone	ND		15		ug/L			02/05/17 03:27	1
Bromochloromethane	ND		0.20		ug/L			02/05/17 03:27	1
Chloroform	ND		0.20		ug/L			02/05/17 03:27	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/05/17 03:27	1
Carbon tetrachloride	ND		0.20		ug/L			02/05/17 03:27	1
Benzene	ND		0.20		ug/L			02/05/17 03:27	1
1,2-Dichloroethane	ND		0.20		ug/L			02/05/17 03:27	1
Trichloroethene	ND		0.20		ug/L			02/05/17 03:27	1
1,2-Dichloropropane	ND		0.20		ug/L			02/05/17 03:27	1
Dibromomethane	ND		0.20		ug/L			02/05/17 03:27	1
Bromodichloromethane	ND		0.20		ug/L			02/05/17 03:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/05/17 03:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/05/17 03:27	1
Toluene	ND		0.20		ug/L			02/05/17 03:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/05/17 03:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/05/17 03:27	1
Tetrachloroethene	ND		0.50		ug/L			02/05/17 03:27	1
2-Hexanone	ND		2.0		ug/L			02/05/17 03:27	1
Dibromochloromethane	ND		0.20		ug/L			02/05/17 03:27	1
1,2-Dibromoethane	ND		0.10		ug/L			02/05/17 03:27	1
Chlorobenzene	ND		0.20		ug/L			02/05/17 03:27	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 03:27	1
Ethylbenzene	ND		0.20		ug/L			02/05/17 03:27	1
m,p-Xylene	ND		0.50		ug/L			02/05/17 03:27	1
o-Xylene	ND		0.50		ug/L			02/05/17 03:27	1
Styrene	ND		0.50		ug/L			02/05/17 03:27	1
Bromoform	ND		0.50		ug/L			02/05/17 03:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/05/17 03:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/05/17 03:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/05/17 03:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/05/17 03:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/05/17 03:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/05/17 03:27	1

Client Sample ID: 0117-32
Date Collected: 01/23/17 12:45
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/05/17 03:27*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*02/05/17 03:27*	*1*
Dibromofluoromethane (Surr)	*106*		*42 - 132*		*02/05/17 03:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/05/17 03:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*02/05/17 03:27*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**68**		1.1		mg/L		01/27/17 08:54	01/27/17 17:15	1
Iron	ND		0.30		mg/L		01/27/17 08:54	01/27/17 17:15	1
Magnesium	**25**		1.1		mg/L		01/27/17 08:54	01/27/17 17:15	1
Manganese	**0.027**		0.020		mg/L		01/27/17 08:54	01/27/17 17:15	1
Potassium	**6.2**		3.3		mg/L		01/27/17 08:54	01/27/17 17:15	1
Sodium	**22**		2.0		mg/L		01/27/17 08:54	01/27/17 17:15	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Arsenic	**0.0083**		0.0010		mg/L		01/27/17 08:54	01/30/17 15:12	1
Barium	**0.027**		0.0012		mg/L		01/27/17 08:54	01/30/17 15:12	1
Beryllium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Cadmium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Chromium	**0.00045**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Cobalt	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Copper	ND		0.0020		mg/L		01/27/17 08:54	01/30/17 15:12	1
Lead	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Nickel	ND		0.0030		mg/L		01/27/17 08:54	01/30/17 15:12	1
Selenium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:12	1
Silver	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Thallium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:12	1
Vanadium	ND		0.0040		mg/L		01/27/17 08:54	01/30/17 15:12	1
Zinc	ND		0.0070		mg/L		01/27/17 08:54	01/30/17 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:06	1
Total Organic Carbon	ND		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 14:29	1
Chloride	**35**		0.90		mg/L			01/31/17 14:29	1
Sulfate	**22**		1.2		mg/L			01/31/17 14:29	1
Alkalinity	**250**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**390**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-14
Date Collected: 01/24/17 09:33
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 03:19	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 03:19	1
Bromomethane	ND		1.0		ug/L			02/06/17 03:19	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 03:19	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 03:19	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 03:19	1
Methyl iodide	ND		0.50		ug/L			02/06/17 03:19	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 03:19	1
Acetone	ND	*	2.0		ug/L			02/06/17 03:19	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 03:19	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 03:19	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 03:19	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 03:19	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 03:19	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 03:19	1
2-Butanone	ND		15		ug/L			02/06/17 03:19	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 03:19	1
Chloroform	ND		0.20		ug/L			02/06/17 03:19	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 03:19	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 03:19	1
Benzene	ND		0.20		ug/L			02/06/17 03:19	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 03:19	1
Trichloroethene	ND		0.20		ug/L			02/06/17 03:19	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 03:19	1
Dibromomethane	ND		0.20		ug/L			02/06/17 03:19	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 03:19	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 03:19	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 03:19	1
Toluene	ND		0.20		ug/L			02/06/17 03:19	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 03:19	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 03:19	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 03:19	1
2-Hexanone	ND		2.0		ug/L			02/06/17 03:19	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 03:19	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 03:19	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 03:19	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 03:19	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 03:19	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 03:19	1
o-Xylene	ND		0.50		ug/L			02/06/17 03:19	1
Styrene	ND		0.50		ug/L			02/06/17 03:19	1
Bromoform	ND		0.50		ug/L			02/06/17 03:19	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 03:19	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 03:19	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 03:19	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 03:19	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 03:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 03:19	1

Client Sample ID: 0117-14

Date Collected: 01/24/17 09:33
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-7

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/06/17 03:19*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*02/06/17 03:19*	*1*
Dibromofluoromethane (Surr)	*105*		*42 - 132*		*02/06/17 03:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 120*		*02/06/17 03:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/06/17 03:19*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**53**		1.1		mg/L		01/27/17 08:54	01/27/17 17:18	1
Iron	ND		0.30		mg/L		01/27/17 08:54	01/27/17 17:18	1
Magnesium	**67**		1.1		mg/L		01/27/17 08:54	01/27/17 17:18	1
Manganese	**0.14**		0.020		mg/L		01/27/17 08:54	01/27/17 17:18	1
Potassium	**10**		3.3		mg/L		01/27/17 08:54	01/27/17 17:18	1
Sodium	**44**		2.0		mg/L		01/27/17 08:54	01/27/17 17:18	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Arsenic	**0.0091**		0.0010		mg/L		01/27/17 08:54	01/30/17 15:16	1
Barium	**0.060**		0.0012		mg/L		01/27/17 08:54	01/30/17 15:16	1
Beryllium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Cadmium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Chromium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Cobalt	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Copper	ND		0.0020		mg/L		01/27/17 08:54	01/30/17 15:16	1
Lead	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Nickel	ND		0.0030		mg/L		01/27/17 08:54	01/30/17 15:16	1
Selenium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:16	1
Silver	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Thallium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:16	1
Vanadium	ND		0.0040		mg/L		01/27/17 08:54	01/30/17 15:16	1
Zinc	ND		0.0070		mg/L		01/27/17 08:54	01/30/17 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:08	1
Total Organic Carbon	**2.0**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 14:18	1
Chloride	**65**		0.90		mg/L			02/03/17 14:18	1
Sulfate	**31**		1.2		mg/L			02/03/17 14:18	1
Alkalinity	**390**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**390**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**540**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-19
Date Collected: 01/24/17 10:45
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 03:45	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 03:45	1
Bromomethane	ND		1.0		ug/L			02/06/17 03:45	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 03:45	1
Trichlorofluoromethane	**4.9**		0.50		ug/L			02/06/17 03:45	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 03:45	1
Methyl iodide	ND		0.50		ug/L			02/06/17 03:45	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 03:45	1
Acetone	ND	*	2.0		ug/L			02/06/17 03:45	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 03:45	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 03:45	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 03:45	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 03:45	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 03:45	1
cis-1,2-Dichloroethene	**0.34**		0.20		ug/L			02/06/17 03:45	1
2-Butanone	ND		15		ug/L			02/06/17 03:45	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 03:45	1
Chloroform	ND		0.20		ug/L			02/06/17 03:45	1
1,1,1-Trichloroethane	**0.54**		0.20		ug/L			02/06/17 03:45	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 03:45	1
Benzene	ND		0.20		ug/L			02/06/17 03:45	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 03:45	1
Trichloroethene	**0.21**		0.20		ug/L			02/06/17 03:45	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 03:45	1
Dibromomethane	ND		0.20		ug/L			02/06/17 03:45	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 03:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 03:45	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 03:45	1
Toluene	ND		0.20		ug/L			02/06/17 03:45	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 03:45	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 03:45	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 03:45	1
2-Hexanone	ND		2.0		ug/L			02/06/17 03:45	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 03:45	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 03:45	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 03:45	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 03:45	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 03:45	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 03:45	1
o-Xylene	ND		0.50		ug/L			02/06/17 03:45	1
Styrene	ND		0.50		ug/L			02/06/17 03:45	1
Bromoform	ND		0.50		ug/L			02/06/17 03:45	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 03:45	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 03:45	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 03:45	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 03:45	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 03:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 03:45	1

Client Sample ID: 0117-19

Date Collected: 01/24/17 10:45
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*02/06/17 03:45*	*1*
Trifluorotoluene (Surr)	*116*		*74 - 118*		*02/06/17 03:45*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/06/17 03:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*81 - 120*		*02/06/17 03:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/06/17 03:45*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		01/27/17 08:54	01/27/17 17:22	1
Iron	ND		0.30		mg/L		01/27/17 08:54	01/27/17 17:22	1
Magnesium	**60**		1.1		mg/L		01/27/17 08:54	01/27/17 17:22	1
Manganese	ND		0.020		mg/L		01/27/17 08:54	01/27/17 17:22	1
Potassium	**6.3**		3.3		mg/L		01/27/17 08:54	01/27/17 17:22	1
Sodium	**32**		2.0		mg/L		01/27/17 08:54	01/27/17 17:22	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Arsenic	**0.0024**		0.0010		mg/L		01/27/17 08:54	01/30/17 15:21	1
Barium	**0.040**		0.0012		mg/L		01/27/17 08:54	01/30/17 15:21	1
Beryllium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Cadmium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Chromium	**0.0094**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Cobalt	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Copper	ND		0.0020		mg/L		01/27/17 08:54	01/30/17 15:21	1
Lead	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Nickel	**0.0066**		0.0030		mg/L		01/27/17 08:54	01/30/17 15:21	1
Selenium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:21	1
Silver	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Thallium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:21	1
Vanadium	**0.0040**		0.0040		mg/L		01/27/17 08:54	01/30/17 15:21	1
Zinc	ND		0.0070		mg/L		01/27/17 08:54	01/30/17 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**4.5**		0.25		mg/L			02/08/17 13:09	5
Total Organic Carbon	**7.3**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 14:33	1
Chloride	**5.5**		0.90		mg/L			02/03/17 14:33	1
Sulfate	**190**		12		mg/L			02/06/17 11:29	10
Alkalinity	**450**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**450**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**840**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	**15**		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-31
Date Collected: 01/24/17 11:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 04:11	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 04:11	1
Bromomethane	ND		1.0		ug/L			02/06/17 04:11	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 04:11	1
Trichlorofluoromethane	**5.0**		0.50		ug/L			02/06/17 04:11	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 04:11	1
Methyl iodide	ND		0.50		ug/L			02/06/17 04:11	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 04:11	1
Acetone	ND	*	2.0		ug/L			02/06/17 04:11	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 04:11	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 04:11	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 04:11	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 04:11	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 04:11	1
cis-1,2-Dichloroethene	**0.33**		0.20		ug/L			02/06/17 04:11	1
2-Butanone	ND		15		ug/L			02/06/17 04:11	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 04:11	1
Chloroform	ND		0.20		ug/L			02/06/17 04:11	1
1,1,1-Trichloroethane	**0.52**		0.20		ug/L			02/06/17 04:11	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 04:11	1
Benzene	ND		0.20		ug/L			02/06/17 04:11	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 04:11	1
Trichloroethene	**0.20**		0.20		ug/L			02/06/17 04:11	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 04:11	1
Dibromomethane	ND		0.20		ug/L			02/06/17 04:11	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 04:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 04:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 04:11	1
Toluene	ND		0.20		ug/L			02/06/17 04:11	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 04:11	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 04:11	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 04:11	1
2-Hexanone	ND		2.0		ug/L			02/06/17 04:11	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 04:11	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 04:11	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 04:11	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 04:11	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 04:11	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 04:11	1
o-Xylene	ND		0.50		ug/L			02/06/17 04:11	1
Styrene	ND		0.50		ug/L			02/06/17 04:11	1
Bromoform	ND		0.50		ug/L			02/06/17 04:11	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 04:11	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 04:11	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 04:11	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 04:11	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 04:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 04:11	1

Client Sample ID: 0117-31
Date Collected: 01/24/17 11:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/06/17 04:11*	*1*
Trifluorotoluene (Surr)	*108*		*74 - 118*		*02/06/17 04:11*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/06/17 04:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*81 - 120*		*02/06/17 04:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/06/17 04:11*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		01/27/17 08:54	01/27/17 17:25	1
Iron	ND		0.30		mg/L		01/27/17 08:54	01/27/17 17:25	1
Magnesium	**56**		1.1		mg/L		01/27/17 08:54	01/27/17 17:25	1
Manganese	ND		0.020		mg/L		01/27/17 08:54	01/27/17 17:25	1
Potassium	**5.9**		3.3		mg/L		01/27/17 08:54	01/27/17 17:25	1
Sodium	**30**		2.0		mg/L		01/27/17 08:54	01/27/17 17:25	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Arsenic	**0.0024**		0.0010		mg/L		01/27/17 08:54	01/30/17 15:25	1
Barium	**0.039**		0.0012		mg/L		01/27/17 08:54	01/30/17 15:25	1
Beryllium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Cadmium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Chromium	**0.0091**		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Cobalt	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Copper	ND		0.0020		mg/L		01/27/17 08:54	01/30/17 15:25	1
Lead	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Nickel	**0.0063**		0.0030		mg/L		01/27/17 08:54	01/30/17 15:25	1
Selenium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:25	1
Silver	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Thallium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 15:25	1
Vanadium	ND		0.0040		mg/L		01/27/17 08:54	01/30/17 15:25	1
Zinc	ND		0.0070		mg/L		01/27/17 08:54	01/30/17 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**4.6**		0.25		mg/L			02/08/17 13:10	5
Total Organic Carbon	**7.4**		1.0		mg/L			01/31/17 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 14:48	1
Chloride	**4.4**		0.90		mg/L			02/03/17 14:48	1
Sulfate	**200**		12		mg/L			02/06/17 11:44	10
Alkalinity	**450**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**450**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**830**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	**15**		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-06
Date Collected: 01/24/17 12:25
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 04:36	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 04:36	1
Bromomethane	ND		1.0		ug/L			02/06/17 04:36	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 04:36	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 04:36	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 04:36	1
Methyl iodide	ND		0.50		ug/L			02/06/17 04:36	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 04:36	1
Acetone	ND	*	2.0		ug/L			02/06/17 04:36	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 04:36	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 04:36	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 04:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 04:36	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 04:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 04:36	1
2-Butanone	ND		15		ug/L			02/06/17 04:36	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 04:36	1
Chloroform	ND		0.20		ug/L			02/06/17 04:36	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 04:36	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 04:36	1
Benzene	ND		0.20		ug/L			02/06/17 04:36	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 04:36	1
Trichloroethene	ND		0.20		ug/L			02/06/17 04:36	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 04:36	1
Dibromomethane	ND		0.20		ug/L			02/06/17 04:36	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 04:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 04:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 04:36	1
Toluene	ND		0.20		ug/L			02/06/17 04:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 04:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 04:36	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 04:36	1
2-Hexanone	ND		2.0		ug/L			02/06/17 04:36	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 04:36	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 04:36	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 04:36	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 04:36	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 04:36	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 04:36	1
o-Xylene	ND		0.50		ug/L			02/06/17 04:36	1
Styrene	ND		0.50		ug/L			02/06/17 04:36	1
Bromoform	ND		0.50		ug/L			02/06/17 04:36	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 04:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 04:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 04:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 04:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 04:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 04:36	1

Client Sample ID: 0117-06

Date Collected: 01/24/17 12:25
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*02/06/17 04:36*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*02/06/17 04:36*	*1*
Dibromofluoromethane (Surr)	*106*		*42 - 132*		*02/06/17 04:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*02/06/17 04:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/06/17 04:36*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		1.1		mg/L		01/27/17 15:41	01/30/17 16:48	1
Iron	ND		0.30		mg/L		01/27/17 15:41	01/30/17 16:48	1
Magnesium	**34**	**F1**	1.1		mg/L		01/27/17 15:41	01/30/17 16:48	1
Manganese	ND		0.020		mg/L		01/27/17 15:41	01/30/17 16:48	1
Potassium	**5.3**		3.3		mg/L		01/27/17 15:41	01/30/17 16:48	1
Sodium	**18**		2.0		mg/L		01/27/17 15:41	01/30/17 16:48	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00046**		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Arsenic	**0.0033**		0.0010		mg/L		01/27/17 15:41	01/30/17 16:55	1
Barium	**0.028**		0.0012		mg/L		01/27/17 15:41	01/30/17 16:55	1
Beryllium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Cadmium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Chromium	**0.0039**		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Cobalt	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Copper	**0.0027**		0.0020		mg/L		01/27/17 15:41	01/30/17 16:55	1
Lead	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Nickel	**0.0048**		0.0030		mg/L		01/27/17 15:41	01/30/17 16:55	1
Selenium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 16:55	1
Silver	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Thallium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 16:55	1
Vanadium	**0.0058**		0.0040		mg/L		01/27/17 15:41	01/30/17 16:55	1
Zinc	ND		0.0070		mg/L		01/27/17 15:41	01/30/17 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**6.5**		0.25		mg/L			02/08/17 13:11	5
Total Organic Carbon	**1.2**	**F1**	1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 15:04	1
Chloride	**19**		0.90		mg/L			02/03/17 15:04	1
Sulfate	**69**		1.2		mg/L			02/03/17 15:04	1
Alkalinity	**330**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**520**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-07
Date Collected: 01/24/17 13:44
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 05:02	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 05:02	1
Bromomethane	ND		1.0		ug/L			02/06/17 05:02	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 05:02	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 05:02	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 05:02	1
Methyl iodide	ND		0.50		ug/L			02/06/17 05:02	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 05:02	1
Acetone	ND	*	2.0		ug/L			02/06/17 05:02	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 05:02	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 05:02	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 05:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 05:02	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 05:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 05:02	1
2-Butanone	ND		15		ug/L			02/06/17 05:02	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 05:02	1
Chloroform	ND		0.20		ug/L			02/06/17 05:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 05:02	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 05:02	1
Benzene	ND		0.20		ug/L			02/06/17 05:02	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 05:02	1
Trichloroethene	ND		0.20		ug/L			02/06/17 05:02	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 05:02	1
Dibromomethane	ND		0.20		ug/L			02/06/17 05:02	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 05:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 05:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 05:02	1
Toluene	ND		0.20		ug/L			02/06/17 05:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 05:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 05:02	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 05:02	1
2-Hexanone	ND		2.0		ug/L			02/06/17 05:02	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 05:02	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 05:02	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 05:02	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 05:02	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 05:02	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 05:02	1
o-Xylene	ND		0.50		ug/L			02/06/17 05:02	1
Styrene	ND		0.50		ug/L			02/06/17 05:02	1
Bromoform	ND		0.50		ug/L			02/06/17 05:02	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 05:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 05:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 05:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 05:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 05:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 05:02	1

Client Sample ID: 0117-07

Date Collected: 01/24/17 13:44
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/06/17 05:02*	*1*
Trifluorotoluene (Surr)	*114*		*74 - 118*		*02/06/17 05:02*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/06/17 05:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*81 - 120*		*02/06/17 05:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*02/06/17 05:02*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**57**		1.1		mg/L		01/27/17 15:41	01/30/17 17:16	1
Iron	ND		0.30		mg/L		01/27/17 15:41	01/30/17 17:16	1
Magnesium	**33**		1.1		mg/L		01/27/17 15:41	01/30/17 17:16	1
Manganese	ND		0.020		mg/L		01/27/17 15:41	01/30/17 17:16	1
Potassium	**5.7**		3.3		mg/L		01/27/17 15:41	01/30/17 17:16	1
Sodium	**24**		2.0		mg/L		01/27/17 15:41	01/30/17 17:16	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00060**		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Arsenic	**0.0078**		0.0010		mg/L		01/27/17 15:41	01/30/17 17:35	1
Barium	**0.017**		0.0012		mg/L		01/27/17 15:41	01/30/17 17:35	1
Beryllium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Cadmium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Chromium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Cobalt	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Copper	ND		0.0020		mg/L		01/27/17 15:41	01/30/17 17:35	1
Lead	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Nickel	ND		0.0030		mg/L		01/27/17 15:41	01/30/17 17:35	1
Selenium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 17:35	1
Silver	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Thallium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 17:35	1
Vanadium	ND		0.0040		mg/L		01/27/17 15:41	01/30/17 17:35	1
Zinc	ND		0.0070		mg/L		01/27/17 15:41	01/30/17 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1
Nitrate Nitrite as N	**0.057**	**F1**	0.050		mg/L			02/08/17 13:12	1
Total Organic Carbon	**1.0**		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 15:19	1
Chloride	**35**		0.90		mg/L			02/03/17 15:19	1
Sulfate	**34**		1.2		mg/L			02/03/17 15:19	1
Alkalinity	**270**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**270**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**390**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-02
Date Collected: 01/24/17 16:06
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 05:27	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 05:27	1
Bromomethane	ND		1.0		ug/L			02/06/17 05:27	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 05:27	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 05:27	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 05:27	1
Methyl iodide	ND		0.50		ug/L			02/06/17 05:27	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 05:27	1
Acetone	ND	*	2.0		ug/L			02/06/17 05:27	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 05:27	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 05:27	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 05:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 05:27	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 05:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 05:27	1
2-Butanone	ND		15		ug/L			02/06/17 05:27	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 05:27	1
Chloroform	ND		0.20		ug/L			02/06/17 05:27	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 05:27	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 05:27	1
Benzene	ND		0.20		ug/L			02/06/17 05:27	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 05:27	1
Trichloroethene	ND		0.20		ug/L			02/06/17 05:27	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 05:27	1
Dibromomethane	ND		0.20		ug/L			02/06/17 05:27	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 05:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 05:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 05:27	1
Toluene	ND		0.20		ug/L			02/06/17 05:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 05:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 05:27	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 05:27	1
2-Hexanone	ND		2.0		ug/L			02/06/17 05:27	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 05:27	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 05:27	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 05:27	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 05:27	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 05:27	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 05:27	1
o-Xylene	ND		0.50		ug/L			02/06/17 05:27	1
Styrene	ND		0.50		ug/L			02/06/17 05:27	1
Bromoform	ND		0.50		ug/L			02/06/17 05:27	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 05:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 05:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 05:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 05:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 05:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 05:27	1

Client Sample ID: 0117-02
Date Collected: 01/24/17 16:06
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/06/17 05:27*	*1*
Trifluorotoluene (Surr)	*107*		*74 - 118*		*02/06/17 05:27*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*02/06/17 05:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/06/17 05:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/06/17 05:27*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64**		1.1		mg/L		01/27/17 15:41	01/30/17 17:19	1
Iron	ND		0.30		mg/L		01/27/17 15:41	01/30/17 17:19	1
Magnesium	**39**		1.1		mg/L		01/27/17 15:41	01/30/17 17:19	1
Manganese	**0.22**		0.020		mg/L		01/27/17 15:41	01/30/17 17:19	1
Potassium	**6.1**		3.3		mg/L		01/27/17 15:41	01/30/17 17:19	1
Sodium	**24**		2.0		mg/L		01/27/17 15:41	01/30/17 17:19	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Arsenic	**0.0067**		0.0010		mg/L		01/27/17 15:41	01/30/17 17:40	1
Barium	**0.025**		0.0012		mg/L		01/27/17 15:41	01/30/17 17:40	1
Beryllium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Cadmium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Chromium	**0.00085**		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Cobalt	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Copper	ND		0.0020		mg/L		01/27/17 15:41	01/30/17 17:40	1
Lead	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Nickel	ND		0.0030		mg/L		01/27/17 15:41	01/30/17 17:40	1
Selenium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 17:40	1
Silver	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Thallium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 17:40	1
Vanadium	ND		0.0040		mg/L		01/27/17 15:41	01/30/17 17:40	1
Zinc	ND		0.0070		mg/L		01/27/17 15:41	01/30/17 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:49	01/31/17 08:41	1
Nitrate Nitrite as N	**0.050**		0.050		mg/L			02/08/17 13:16	1
Total Organic Carbon	**1.2**		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 15:35	1
Chloride	**33**		0.90		mg/L			02/03/17 15:35	1
Sulfate	**14**		1.2		mg/L			02/03/17 15:35	1
Alkalinity	**340**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**440**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-13
Date Collected: 01/24/17 17:20
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 05:53	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 05:53	1
Bromomethane	ND		1.0		ug/L			02/06/17 05:53	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 05:53	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 05:53	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 05:53	1
Methyl iodide	ND		0.50		ug/L			02/06/17 05:53	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 05:53	1
Acetone	ND	*	2.0		ug/L			02/06/17 05:53	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 05:53	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 05:53	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 05:53	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 05:53	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 05:53	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 05:53	1
2-Butanone	ND		15		ug/L			02/06/17 05:53	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 05:53	1
Chloroform	ND		0.20		ug/L			02/06/17 05:53	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 05:53	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 05:53	1
Benzene	ND		0.20		ug/L			02/06/17 05:53	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 05:53	1
Trichloroethene	ND		0.20		ug/L			02/06/17 05:53	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 05:53	1
Dibromomethane	ND		0.20		ug/L			02/06/17 05:53	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 05:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 05:53	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 05:53	1
Toluene	ND		0.20		ug/L			02/06/17 05:53	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 05:53	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 05:53	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 05:53	1
2-Hexanone	ND		2.0		ug/L			02/06/17 05:53	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 05:53	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 05:53	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 05:53	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 05:53	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 05:53	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 05:53	1
o-Xylene	ND		0.50		ug/L			02/06/17 05:53	1
Styrene	ND		0.50		ug/L			02/06/17 05:53	1
Bromoform	ND		0.50		ug/L			02/06/17 05:53	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 05:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 05:53	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 05:53	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 05:53	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 05:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 05:53	1

Client Sample ID: 0117-13
Date Collected: 01/24/17 17:20
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/06/17 05:53*	*1*
Trifluorotoluene (Surr)	*108*		*74 - 118*		*02/06/17 05:53*	*1*
Dibromofluoromethane (Surr)	*106*		*42 - 132*		*02/06/17 05:53*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/06/17 05:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/06/17 05:53*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64**		1.1		mg/L		01/27/17 15:41	01/30/17 17:23	1
Iron	**0.41**		0.30		mg/L		01/27/17 15:41	01/30/17 17:23	1
Magnesium	**40**		1.1		mg/L		01/27/17 15:41	01/30/17 17:23	1
Manganese	**0.10**		0.020		mg/L		01/27/17 15:41	01/30/17 17:23	1
Potassium	**5.1**		3.3		mg/L		01/27/17 15:41	01/30/17 17:23	1
Sodium	**27**		2.0		mg/L		01/27/17 15:41	01/30/17 17:23	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Arsenic	**0.0056**		0.0010		mg/L		01/27/17 15:41	01/30/17 17:44	1
Barium	**0.029**		0.0012		mg/L		01/27/17 15:41	01/30/17 17:44	1
Beryllium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Cadmium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Chromium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Cobalt	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Copper	**0.0021**		0.0020		mg/L		01/27/17 15:41	01/30/17 17:44	1
Lead	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Nickel	ND		0.0030		mg/L		01/27/17 15:41	01/30/17 17:44	1
Selenium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 17:44	1
Silver	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Thallium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 17:44	1
Vanadium	ND		0.0040		mg/L		01/27/17 15:41	01/30/17 17:44	1
Zinc	**0.16**		0.0070		mg/L		01/27/17 15:41	01/30/17 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:49	01/31/17 08:41	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:19	1
Total Organic Carbon	**1.7**		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 15:50	1
Chloride	**55**		0.90		mg/L			02/03/17 15:50	1
Sulfate	**42**		1.2		mg/L			02/03/17 15:50	1
Alkalinity	**330**		5.0	5.0	mg/L			01/26/17 15:37	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0	5.0	mg/L			01/26/17 15:37	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			01/26/17 15:37	1
Total Dissolved Solids	**480**		10	10	mg/L			01/27/17 14:56	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: TRIP BLANK
Date Collected: 01/24/17 00:01
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 01:35	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 01:35	1
Bromomethane	ND		1.0		ug/L			02/06/17 01:35	1
Chloroethane	ND	*	0.50		ug/L			02/06/17 01:35	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 01:35	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 01:35	1
Methyl iodide	ND		0.50		ug/L			02/06/17 01:35	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 01:35	1
Acetone	ND	*	2.0		ug/L			02/06/17 01:35	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 01:35	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 01:35	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 01:35	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 01:35	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 01:35	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 01:35	1
2-Butanone	ND		15		ug/L			02/06/17 01:35	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 01:35	1
Chloroform	ND		0.20		ug/L			02/06/17 01:35	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 01:35	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 01:35	1
Benzene	ND		0.20		ug/L			02/06/17 01:35	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 01:35	1
Trichloroethene	ND		0.20		ug/L			02/06/17 01:35	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 01:35	1
Dibromomethane	ND		0.20		ug/L			02/06/17 01:35	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 01:35	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 01:35	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 01:35	1
Toluene	ND		0.20		ug/L			02/06/17 01:35	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 01:35	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 01:35	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 01:35	1
2-Hexanone	ND		2.0		ug/L			02/06/17 01:35	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 01:35	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 01:35	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 01:35	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 01:35	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 01:35	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 01:35	1
o-Xylene	ND		0.50		ug/L			02/06/17 01:35	1
Styrene	ND		0.50		ug/L			02/06/17 01:35	1
Bromoform	ND		0.50		ug/L			02/06/17 01:35	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/06/17 01:35	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 01:35	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 01:35	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 01:35	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 01:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 01:35	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: TRIP BLANK
Date Collected: 01/24/17 00:01
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		75 - 125		02/06/17 01:35	1
Trifluorotoluene (Surr)	112		74 - 118		02/06/17 01:35	1
Dibromofluoromethane (Surr)	105		42 - 132		02/06/17 01:35	1
4-Bromofluorobenzene (Surr)	95		81 - 120		02/06/17 01:35	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		02/06/17 01:35	1

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

Lab Sample ID: MB 580-237819/4
Matrix: Water
Analysis Batch: 237819

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/04/17 18:03	1
Vinyl chloride	ND		0.020		ug/L			02/04/17 18:03	1
Bromomethane	ND		1.0		ug/L			02/04/17 18:03	1
Chloroethane	ND		0.50		ug/L			02/04/17 18:03	1
Trichlorofluoromethane	ND		0.50		ug/L			02/04/17 18:03	1
1,1-Dichloroethene	ND		0.10		ug/L			02/04/17 18:03	1
Methyl iodide	ND		0.50		ug/L			02/04/17 18:03	1
Carbon disulfide	ND		0.20		ug/L			02/04/17 18:03	1
Acetone	ND		2.0		ug/L			02/04/17 18:03	1
Methylene Chloride	ND		0.50		ug/L			02/04/17 18:03	1
Acrylonitrile	ND		5.0		ug/L			02/04/17 18:03	1
Vinyl acetate	ND		1.0		ug/L			02/04/17 18:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/04/17 18:03	1
1,1-Dichloroethane	ND		0.20		ug/L			02/04/17 18:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/04/17 18:03	1
2-Butanone	ND		15		ug/L			02/04/17 18:03	1
Bromochloromethane	ND		0.20		ug/L			02/04/17 18:03	1
Chloroform	ND		0.20		ug/L			02/04/17 18:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/04/17 18:03	1
Carbon tetrachloride	ND		0.20		ug/L			02/04/17 18:03	1
Benzene	ND		0.20		ug/L			02/04/17 18:03	1
1,2-Dichloroethane	ND		0.20		ug/L			02/04/17 18:03	1
Trichloroethene	ND		0.20		ug/L			02/04/17 18:03	1
1,2-Dichloropropane	ND		0.20		ug/L			02/04/17 18:03	1
Dibromomethane	ND		0.20		ug/L			02/04/17 18:03	1
Bromodichloromethane	ND		0.20		ug/L			02/04/17 18:03	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/04/17 18:03	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/04/17 18:03	1
Toluene	ND		0.20		ug/L			02/04/17 18:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/04/17 18:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/04/17 18:03	1
Tetrachloroethene	ND		0.50		ug/L			02/04/17 18:03	1
2-Hexanone	ND		2.0		ug/L			02/04/17 18:03	1
Dibromochloromethane	ND		0.20		ug/L			02/04/17 18:03	1
1,2-Dibromoethane	ND		0.10		ug/L			02/04/17 18:03	1
Chlorobenzene	ND		0.20		ug/L			02/04/17 18:03	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/04/17 18:03	1
Ethylbenzene	ND		0.20		ug/L			02/04/17 18:03	1
m,p-Xylene	ND		0.50		ug/L			02/04/17 18:03	1
o-Xylene	ND		0.50		ug/L			02/04/17 18:03	1
Styrene	ND		0.50		ug/L			02/04/17 18:03	1
Bromoform	ND		0.50		ug/L			02/04/17 18:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/04/17 18:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/04/17 18:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/04/17 18:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/04/17 18:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/04/17 18:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/04/17 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/04/17 18:03*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*02/04/17 18:03*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*02/04/17 18:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*02/04/17 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/04/17 18:03*	*1*

Lab Sample ID: LCS 580-237819/5
Matrix: Water
Analysis Batch: 237819

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	4.86		ug/L		97	40 - 150
Vinyl chloride	5.00	4.91		ug/L		98	59 - 140
Bromomethane	5.00	5.22		ug/L		104	61 - 135
Chloroethane	5.00	5.42		ug/L		108	58 - 130
Trichlorofluoromethane	5.00	5.05		ug/L		101	60 - 150
1,1-Dichloroethene	5.00	4.43		ug/L		89	64 - 125
Methyl iodide	5.00	5.02		ug/L		100	47 - 145
Carbon disulfide	5.00	5.00		ug/L		100	65 - 128
Acetone	25.0	27.5		ug/L		110	20 - 138
Methylene Chloride	5.00	3.92		ug/L		78	58 - 134
Acrylonitrile	50.0	44.3		ug/L		89	55 - 134
Vinyl acetate	12.5	13.1		ug/L		105	30 - 150
trans-1,2-Dichloroethene	5.00	4.94		ug/L		99	69 - 124
1,1-Dichloroethane	5.00	5.01		ug/L		100	68 - 135
cis-1,2-Dichloroethene	5.00	4.98		ug/L		100	73 - 130
2-Butanone	25.0	21.8		ug/L		87	30 - 150
Bromochloromethane	5.00	5.11		ug/L		102	71 - 131
Chloroform	5.00	4.92		ug/L		98	71 - 130
1,1,1-Trichloroethane	5.00	4.80		ug/L		96	56 - 150
Carbon tetrachloride	5.00	4.85		ug/L		97	54 - 150
Benzene	5.00	5.00		ug/L		100	73 - 120
1,2-Dichloroethane	5.00	5.17		ug/L		103	63 - 150
Trichloroethene	5.00	4.75		ug/L		95	72 - 123
1,2-Dichloropropane	5.00	4.88		ug/L		98	72 - 120
Dibromomethane	5.00	4.98		ug/L		100	65 - 137
Bromodichloromethane	5.00	4.89		ug/L		98	62 - 150
cis-1,3-Dichloropropene	5.00	5.29		ug/L		106	54 - 150
4-Methyl-2-pentanone	25.0	25.1		ug/L		100	36 - 150
Toluene	5.00	5.18		ug/L		104	70 - 126
trans-1,3-Dichloropropene	5.00	5.20		ug/L		104	40 - 150
1,1,2-Trichloroethane	5.00	5.11		ug/L		102	62 - 137
Tetrachloroethene	5.00	4.96		ug/L		99	67 - 123
2-Hexanone	25.0	25.4		ug/L		102	25 - 150
Dibromochloromethane	5.00	5.21		ug/L		104	46 - 150
1,2-Dibromoethane	5.00	5.28		ug/L		106	56 - 146
Chlorobenzene	5.00	5.11		ug/L		102	74 - 114
1,1,1,2-Tetrachloroethane	5.00	4.98		ug/L		100	68 - 139
Ethylbenzene	5.00	5.10		ug/L		102	74 - 125
m,p-Xylene	5.00	4.96		ug/L		99	73 - 130
o-Xylene	5.00	5.09		ug/L		102	80 - 139
Styrene	5.00	5.12		ug/L		102	68 - 136
Bromoform	5.00	4.95		ug/L		99	51 - 137
1,1,2,2-Tetrachloroethane	5.00	6.33		ug/L		127	60 - 134

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

Lab Sample ID: LCS 580-237819/5
Matrix: Water
Analysis Batch: 237819

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	5.00	4.98		ug/L		100	45 - 150
trans-1,4-Dichloro-2-butene	5.00	6.03		ug/L		121	20 - 150
1,4-Dichlorobenzene	5.00	5.14		ug/L		103	77 - 120
1,2-Dichlorobenzene	5.00	4.90		ug/L		98	73 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.96		ug/L		99	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*102*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*

Lab Sample ID: LCSD 580-237819/6
Matrix: Water
Analysis Batch: 237819

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	5.00	4.96		ug/L		99	40 - 150	2	31
Vinyl chloride	5.00	4.83		ug/L		97	59 - 140	2	30
Bromomethane	5.00	5.31		ug/L		106	61 - 135	2	31
Chloroethane	5.00	5.82		ug/L		116	58 - 130	7	35
Trichlorofluoromethane	5.00	5.91		ug/L		118	60 - 150	16	31
1,1-Dichloroethene	5.00	4.58		ug/L		92	64 - 125	3	28
Methyl iodide	5.00	5.33		ug/L		107	47 - 145	6	35
Carbon disulfide	5.00	5.05		ug/L		101	65 - 128	1	32
Acetone	25.0	22.2		ug/L		89	20 - 138	21	35
Methylene Chloride	5.00	3.80		ug/L		76	58 - 134	3	29
Acrylonitrile	50.0	44.0		ug/L		88	55 - 134	1	35
Vinyl acetate	12.5	13.5		ug/L		108	30 - 150	3	35
trans-1,2-Dichloroethene	5.00	5.01		ug/L		100	69 - 124	1	27
1,1-Dichloroethane	5.00	5.15		ug/L		103	68 - 135	3	27
cis-1,2-Dichloroethene	5.00	5.15		ug/L		103	73 - 130	3	20
2-Butanone	25.0	23.2		ug/L		93	30 - 150	6	35
Bromochloromethane	5.00	4.96		ug/L		99	71 - 131	3	20
Chloroform	5.00	5.06		ug/L		101	71 - 130	3	20
1,1,1-Trichloroethane	5.00	4.95		ug/L		99	56 - 150	3	29
Carbon tetrachloride	5.00	5.03		ug/L		101	54 - 150	4	30
Benzene	5.00	5.10		ug/L		102	73 - 120	2	20
1,2-Dichloroethane	5.00	5.12		ug/L		102	63 - 150	1	29
Trichloroethene	5.00	4.76		ug/L		95	72 - 123	0	20
1,2-Dichloropropane	5.00	5.04		ug/L		101	72 - 120	3	20
Dibromomethane	5.00	5.06		ug/L		101	65 - 137	2	20
Bromodichloromethane	5.00	5.09		ug/L		102	62 - 150	4	20
cis-1,3-Dichloropropene	5.00	5.22		ug/L		104	54 - 150	1	28
4-Methyl-2-pentanone	25.0	25.8		ug/L		103	36 - 150	3	34
Toluene	5.00	5.27		ug/L		105	70 - 126	2	20
trans-1,3-Dichloropropene	5.00	5.14		ug/L		103	40 - 150	1	30

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

Lab Sample ID: LCSD 580-237819/6
Matrix: Water
Analysis Batch: 237819

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			5.00	5.05		ug/L		101	62 - 137	1	30
Tetrachloroethene			5.00	5.11		ug/L		102	67 - 123	3	20
2-Hexanone			25.0	25.4		ug/L		102	25 - 150	0	28
Dibromochloromethane			5.00	5.15		ug/L		103	46 - 150	1	20
1,2-Dibromoethane			5.00	5.23		ug/L		105	56 - 146	1	20
Chlorobenzene			5.00	5.14		ug/L		103	74 - 114	1	12
1,1,1,2-Tetrachloroethane			5.00	5.23		ug/L		105	68 - 139	5	20
Ethylbenzene			5.00	5.22		ug/L		104	74 - 125	2	20
m,p-Xylene			5.00	5.11		ug/L		102	73 - 130	3	20
o-Xylene			5.00	5.21		ug/L		104	80 - 139	2	20
Styrene			5.00	5.24		ug/L		105	68 - 136	2	20
Bromoform			5.00	5.04		ug/L		101	51 - 137	2	20
1,1,2,2-Tetrachloroethane			5.00	6.31		ug/L		126	60 - 134	0	25
1,2,3-Trichloropropane			5.00	4.70		ug/L		94	45 - 150	6	20
trans-1,4-Dichloro-2-butene			5.00	5.65		ug/L		113	20 - 150	6	20
1,4-Dichlorobenzene			5.00	5.16		ug/L		103	77 - 120	0	11
1,2-Dichlorobenzene			5.00	4.98		ug/L		100	73 - 120	2	14
1,2-Dibromo-3-Chloropropane			5.00	4.99		ug/L		100	34 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*95*		*74 - 118*
Dibromofluoromethane (Surr)	*101*		*42 - 132*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*

Lab Sample ID: MB 580-237825/4
Matrix: Water
Analysis Batch: 237825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/06/17 00:18	1
Vinyl chloride	ND		0.020		ug/L			02/06/17 00:18	1
Bromomethane	ND		1.0		ug/L			02/06/17 00:18	1
Chloroethane	ND		0.50		ug/L			02/06/17 00:18	1
Trichlorofluoromethane	ND		0.50		ug/L			02/06/17 00:18	1
1,1-Dichloroethene	ND		0.10		ug/L			02/06/17 00:18	1
Methyl iodide	ND		0.50		ug/L			02/06/17 00:18	1
Carbon disulfide	ND		0.20		ug/L			02/06/17 00:18	1
Acetone	ND		2.0		ug/L			02/06/17 00:18	1
Methylene Chloride	ND		0.50		ug/L			02/06/17 00:18	1
Acrylonitrile	ND		5.0		ug/L			02/06/17 00:18	1
Vinyl acetate	ND		1.0		ug/L			02/06/17 00:18	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 00:18	1
1,1-Dichloroethane	ND		0.20		ug/L			02/06/17 00:18	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/06/17 00:18	1
2-Butanone	ND		15		ug/L			02/06/17 00:18	1
Bromochloromethane	ND		0.20		ug/L			02/06/17 00:18	1

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

Lab Sample ID: MB 580-237825/4
Matrix: Water
Analysis Batch: 237825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20		ug/L			02/06/17 00:18	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/06/17 00:18	1
Carbon tetrachloride	ND		0.20		ug/L			02/06/17 00:18	1
Benzene	ND		0.20		ug/L			02/06/17 00:18	1
1,2-Dichloroethane	ND		0.20		ug/L			02/06/17 00:18	1
Trichloroethene	ND		0.20		ug/L			02/06/17 00:18	1
1,2-Dichloropropane	ND		0.20		ug/L			02/06/17 00:18	1
Dibromomethane	ND		0.20		ug/L			02/06/17 00:18	1
Bromodichloromethane	ND		0.20		ug/L			02/06/17 00:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/06/17 00:18	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/06/17 00:18	1
Toluene	ND		0.20		ug/L			02/06/17 00:18	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/06/17 00:18	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/06/17 00:18	1
Tetrachloroethene	ND		0.50		ug/L			02/06/17 00:18	1
2-Hexanone	ND		2.0		ug/L			02/06/17 00:18	1
Dibromochloromethane	ND		0.20		ug/L			02/06/17 00:18	1
1,2-Dibromoethane	ND		0.10		ug/L			02/06/17 00:18	1
Chlorobenzene	ND		0.20		ug/L			02/06/17 00:18	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 00:18	1
Ethylbenzene	ND		0.20		ug/L			02/06/17 00:18	1
m,p-Xylene	ND		0.50		ug/L			02/06/17 00:18	1
o-Xylene	ND		0.50		ug/L			02/06/17 00:18	1
Styrene	ND		0.50		ug/L			02/06/17 00:18	1
Bromoform	ND		0.50		ug/L			02/06/17 00:18	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/06/17 00:18	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/06/17 00:18	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/06/17 00:18	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/06/17 00:18	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/06/17 00:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/06/17 00:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/06/17 00:18*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*02/06/17 00:18*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*02/06/17 00:18*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 120*		*02/06/17 00:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/06/17 00:18*	*1*

Lab Sample ID: LCS 580-237825/5
Matrix: Water
Analysis Batch: 237825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.00		ug/L		100	40 - 150
Vinyl chloride	5.00	4.92		ug/L		98	59 - 140
Bromomethane	5.00	5.43		ug/L		109	61 - 135
Chloroethane	5.00	6.75	*	ug/L		135	58 - 130

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

Lab Sample ID: LCS 580-237825/5
Matrix: Water
Analysis Batch: 237825

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	5.00	5.63		ug/L		113	60 - 150
1,1-Dichloroethene	5.00	5.24		ug/L		105	64 - 125
Methyl iodide	5.00	4.92		ug/L		98	47 - 145
Carbon disulfide	5.00	4.82		ug/L		96	65 - 128
Acetone	25.0	13.2		ug/L		53	20 - 138
Methylene Chloride	5.00	3.96		ug/L		79	58 - 134
Acrylonitrile	50.0	53.2		ug/L		106	55 - 134
Vinyl acetate	12.5	7.85		ug/L		63	30 - 150
trans-1,2-Dichloroethene	5.00	4.89		ug/L		98	69 - 124
1,1-Dichloroethane	5.00	5.18		ug/L		104	68 - 135
cis-1,2-Dichloroethene	5.00	5.22		ug/L		104	73 - 130
2-Butanone	25.0	27.8		ug/L		111	30 - 150
Bromochloromethane	5.00	5.26		ug/L		105	71 - 131
Chloroform	5.00	5.13		ug/L		103	71 - 130
1,1,1-Trichloroethane	5.00	4.80		ug/L		96	56 - 150
Carbon tetrachloride	5.00	4.87		ug/L		97	54 - 150
Benzene	5.00	5.16		ug/L		103	73 - 120
1,2-Dichloroethane	5.00	5.37		ug/L		107	63 - 150
Trichloroethene	5.00	4.76		ug/L		95	72 - 123
1,2-Dichloropropane	5.00	5.12		ug/L		102	72 - 120
Dibromomethane	5.00	5.02		ug/L		100	65 - 137
Bromodichloromethane	5.00	5.05		ug/L		101	62 - 150
cis-1,3-Dichloropropene	5.00	5.13		ug/L		103	54 - 150
4-Methyl-2-pentanone	25.0	26.4		ug/L		105	36 - 150
Toluene	5.00	5.29		ug/L		106	70 - 126
trans-1,3-Dichloropropene	5.00	5.07		ug/L		101	40 - 150
1,1,2-Trichloroethane	5.00	5.07		ug/L		101	62 - 137
Tetrachloroethene	5.00	4.99		ug/L		100	67 - 123
2-Hexanone	25.0	28.2		ug/L		113	25 - 150
Dibromochloromethane	5.00	5.48		ug/L		110	46 - 150
1,2-Dibromoethane	5.00	5.40		ug/L		108	56 - 146
Chlorobenzene	5.00	5.13		ug/L		103	74 - 114
1,1,1,2-Tetrachloroethane	5.00	5.01		ug/L		100	68 - 139
Ethylbenzene	5.00	5.09		ug/L		102	74 - 125
m,p-Xylene	5.00	4.97		ug/L		99	73 - 130
o-Xylene	5.00	5.04		ug/L		101	80 - 139
Styrene	5.00	5.07		ug/L		101	68 - 136
Bromoform	5.00	5.08		ug/L		102	51 - 137
1,1,2,2-Tetrachloroethane	5.00	7.85	*	ug/L		157	60 - 134
1,2,3-Trichloropropane	5.00	5.22		ug/L		104	45 - 150
trans-1,4-Dichloro-2-butene	5.00	6.37		ug/L		127	20 - 150
1,4-Dichlorobenzene	5.00	5.07		ug/L		101	77 - 120
1,2-Dichlorobenzene	5.00	4.75		ug/L		95	73 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.50		ug/L		90	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*104*		*74 - 118*

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

Lab Sample ID: LCS 580-237825/5
Matrix: Water
Analysis Batch: 237825

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*42 - 132*
4-Bromofluorobenzene (Surr)	*97*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Lab Sample ID: LCSD 580-237825/6
Matrix: Water
Analysis Batch: 237825

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane			5.00	4.45		ug/L		89	40 - 150	12	31
Vinyl chloride			5.00	4.39		ug/L		88	59 - 140	12	30
Bromomethane			5.00	5.03		ug/L		101	61 - 135	8	31
Chloroethane			5.00	6.51		ug/L		130	58 - 130	3	35
Trichlorofluoromethane			5.00	5.04		ug/L		101	60 - 150	11	31
1,1-Dichloroethene			5.00	4.88		ug/L		98	64 - 125	7	28
Methyl iodide			5.00	4.81		ug/L		96	47 - 145	2	35
Carbon disulfide			5.00	4.55		ug/L		91	65 - 128	6	32
Acetone			25.0	34.2	*	ug/L		137	20 - 138	89	35
Methylene Chloride			5.00	3.68		ug/L		74	58 - 134	7	29
Acrylonitrile			50.0	56.9		ug/L		114	55 - 134	7	35
Vinyl acetate			12.5	7.51		ug/L		60	30 - 150	5	35
trans-1,2-Dichloroethene			5.00	4.63		ug/L		93	69 - 124	5	27
1,1-Dichloroethane			5.00	4.87		ug/L		97	68 - 135	6	27
cis-1,2-Dichloroethene			5.00	4.98		ug/L		100	73 - 130	5	20
2-Butanone			25.0	26.7		ug/L		107	30 - 150	4	35
Bromochloromethane			5.00	4.92		ug/L		98	71 - 131	7	20
Chloroform			5.00	4.91		ug/L		98	71 - 130	5	20
1,1,1-Trichloroethane			5.00	4.64		ug/L		93	56 - 150	3	29
Carbon tetrachloride			5.00	4.72		ug/L		94	54 - 150	3	30
Benzene			5.00	4.97		ug/L		99	73 - 120	4	20
1,2-Dichloroethane			5.00	5.27		ug/L		105	63 - 150	2	29
Trichloroethene			5.00	4.63		ug/L		93	72 - 123	3	20
1,2-Dichloropropane			5.00	5.06		ug/L		101	72 - 120	1	20
Dibromomethane			5.00	5.06		ug/L		101	65 - 137	1	20
Bromodichloromethane			5.00	5.19		ug/L		104	62 - 150	3	20
cis-1,3-Dichloropropene			5.00	4.78		ug/L		96	54 - 150	7	28
4-Methyl-2-pentanone			25.0	25.9		ug/L		103	36 - 150	2	34
Toluene			5.00	4.99		ug/L		100	70 - 126	6	20
trans-1,3-Dichloropropene			5.00	4.87		ug/L		97	40 - 150	4	30
1,1,2-Trichloroethane			5.00	4.98		ug/L		100	62 - 137	2	30
Tetrachloroethene			5.00	4.71		ug/L		94	67 - 123	6	20
2-Hexanone			25.0	26.4		ug/L		106	25 - 150	6	28
Dibromochloromethane			5.00	5.27		ug/L		105	46 - 150	4	20
1,2-Dibromoethane			5.00	5.24		ug/L		105	56 - 146	3	20
Chlorobenzene			5.00	5.04		ug/L		101	74 - 114	2	12
1,1,1,2-Tetrachloroethane			5.00	4.96		ug/L		99	68 - 139	1	20
Ethylbenzene			5.00	4.99		ug/L		100	74 - 125	2	20
m,p-Xylene			5.00	4.91		ug/L		98	73 - 130	1	20

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

Lab Sample ID: LCSD 580-237825/6
Matrix: Water
Analysis Batch: 237825

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			5.00	4.91		ug/L		98	80 - 139	3	20
Styrene			5.00	5.05		ug/L		101	68 - 136	0	20
Bromoform			5.00	5.06		ug/L		101	51 - 137	0	20
1,1,2,2-Tetrachloroethane			5.00	8.03	*	ug/L		161	60 - 134	2	25
1,2,3-Trichloropropane			5.00	5.30		ug/L		106	45 - 150	1	20
trans-1,4-Dichloro-2-butene			5.00	6.29		ug/L		126	20 - 150	1	20
1,4-Dichlorobenzene			5.00	4.97		ug/L		99	77 - 120	2	11
1,2-Dichlorobenzene			5.00	4.41		ug/L		88	73 - 120	7	14
1,2-Dibromo-3-Chloropropane			5.00	3.85		ug/L		77	34 - 150	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*106*		*74 - 118*
Dibromofluoromethane (Surr)	*103*		*42 - 132*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-237389/1-A
Matrix: Water
Analysis Batch: 237512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
2,4-D	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
2,4-DB	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
4-Nitrophenol	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
Dalapon	ND		0.40		ug/L		01/30/17 15:56	02/01/17 08:48	1
Dicamba	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
Dichlorprop	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
Dinoseb	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
MCPA	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
Mecoprop	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
Pentachlorophenol	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		01/30/17 15:56	02/01/17 08:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*45*	*X*	*51 - 150*	*01/30/17 15:56*	*02/01/17 08:48*	*1*

Lab Sample ID: LCS 580-237389/2-A
Matrix: Water
Analysis Batch: 237512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	0.994		ug/L		20	20 - 150		
2,4-D			5.00	1.24		ug/L		25	20 - 150		

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: LCS 580-237389/2-A
Matrix: Water
Analysis Batch: 237512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-DB	5.00	3.26		ug/L		65	50 - 150
4-Nitrophenol	5.00	4.95		ug/L		99	28 - 150
Dalapon	5.00	0.360	J *	ug/L		7	20 - 120
Dicamba	5.00	1.12		ug/L		22	20 - 150
Dichlorprop	5.00	2.25		ug/L		45	23 - 150
Dinoseb	5.00	6.20		ug/L		124	24 - 150
MCPA	5.00	1.84		ug/L		37	21 - 150
Mecoprop	5.00	3.14		ug/L		63	51 - 150
Pentachlorophenol	5.00	5.61		ug/L		112	48 - 150
Silvex (2,4,5-TP)	5.00	4.05		ug/L		81	24 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*61*		*51 - 150*

Lab Sample ID: LCSD 580-237389/3-A
Matrix: Water
Analysis Batch: 237512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	5.00	1.88	*	ug/L		38	20 - 150	62	35
2,4-D	5.00	1.92	*	ug/L		38	20 - 150	43	35
2,4-DB	5.00	4.71	*	ug/L		94	50 - 150	36	35
4-Nitrophenol	5.00	5.91		ug/L		118	28 - 150	18	35
Dalapon	5.00	0.417	*	ug/L		8	20 - 120	15	35
Dicamba	5.00	1.79	*	ug/L		36	20 - 150	46	35
Dichlorprop	5.00	3.71	*	ug/L		74	23 - 150	49	35
Dinoseb	5.00	6.01		ug/L		120	24 - 150	3	35
MCPA	5.00	3.12	*	ug/L		62	21 - 150	52	35
Mecoprop	5.00	4.45		ug/L		89	51 - 150	35	35
Pentachlorophenol	5.00	6.02		ug/L		120	48 - 150	7	35
Silvex (2,4,5-TP)	5.00	5.22		ug/L		104	24 - 150	25	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*97*		*51 - 150*

Lab Sample ID: MB 580-237943/1-A
Matrix: Water
Analysis Batch: 238011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
2,4-D	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
2,4-DB	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
4-Nitrophenol	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
Dalapon	ND		0.40		ug/L		02/07/17 15:18	02/08/17 13:43	1
Dicamba	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
Dichlorprop	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
Dinoseb	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: MB 580-237943/1-A
Matrix: Water
Analysis Batch: 238011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MCPA	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
Mecoprop	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
Pentachlorophenol	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		02/07/17 15:18	02/08/17 13:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*51 - 150*	*02/07/17 15:18*	*02/08/17 13:43*	*1*

Lab Sample ID: LCS 580-237943/2-A
Matrix: Water
Analysis Batch: 238011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237943

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	3.28		ug/L		66	20 - 150		
2,4-D			5.00	3.08		ug/L		62	20 - 150		
2,4-DB			5.00	6.09		ug/L		122	50 - 150		
4-Nitrophenol			5.00	5.34		ug/L		107	28 - 150		
Dalapon			5.00	1.61		ug/L		32	20 - 120		
Dicamba			5.00	3.79		ug/L		76	20 - 150		
Dichlorprop			5.00	4.41		ug/L		88	23 - 150		
Dinoseb			5.00	7.31		ug/L		146	24 - 150		
MCPA			5.00	3.84		ug/L		77	21 - 150		
Mecoprop			5.00	5.74		ug/L		115	51 - 150		
Pentachlorophenol			5.00	7.26		ug/L		145	48 - 150		
Silvex (2,4,5-TP)			5.00	6.33		ug/L		127	24 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*111*		*51 - 150*

Lab Sample ID: LCSD 580-237943/3-A
Matrix: Water
Analysis Batch: 238011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237943

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.44		ug/L		69	20 - 150	5	35
2,4-D			5.00	2.98		ug/L		60	20 - 150	3	35
2,4-DB			5.00	5.32		ug/L		106	50 - 150	14	35
4-Nitrophenol			5.00	6.37		ug/L		127	28 - 150	18	35
Dalapon			5.00	0.423	*	ug/L		8	20 - 120	117	35
Dicamba			5.00	3.83		ug/L		77	20 - 150	1	35
Dichlorprop			5.00	4.30		ug/L		86	23 - 150	2	35
Dinoseb			5.00	5.83		ug/L		117	24 - 150	23	35
MCPA			5.00	3.85		ug/L		77	21 - 150	0	35
Mecoprop			5.00	4.65		ug/L		93	51 - 150	21	35
Pentachlorophenol			5.00	5.96		ug/L		119	48 - 150	20	35
Silvex (2,4,5-TP)			5.00	5.27		ug/L		105	24 - 150	18	35

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: LCSD 580-237943/3-A
Matrix: Water
Analysis Batch: 238011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237943

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*110*		*51 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-237196/14-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		01/26/17 15:29	01/27/17 12:28	1
Iron	ND		0.30		mg/L		01/26/17 15:29	01/27/17 12:28	1
Magnesium	ND		1.1		mg/L		01/26/17 15:29	01/27/17 12:28	1
Manganese	ND		0.020		mg/L		01/26/17 15:29	01/27/17 12:28	1
Potassium	ND		3.3		mg/L		01/26/17 15:29	01/27/17 12:28	1
Sodium	ND		2.0		mg/L		01/26/17 15:29	01/27/17 12:28	1

Lab Sample ID: LCS 580-237196/15-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.5		mg/L		102	80 - 120
Iron	22.0	22.1		mg/L		100	80 - 120
Magnesium	20.0	20.2		mg/L		101	80 - 120
Manganese	1.00	1.04		mg/L		104	80 - 120
Potassium	20.0	21.0		mg/L		105	80 - 120
Sodium	20.0	21.5		mg/L		108	80 - 120

Lab Sample ID: LCSD 580-237196/16-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.4		mg/L		97	80 - 120	5	20
Iron	22.0	21.5		mg/L		98	80 - 120	3	20
Magnesium	20.0	19.3		mg/L		97	80 - 120	4	20
Manganese	1.00	1.00		mg/L		100	80 - 120	3	20
Potassium	20.0	20.4		mg/L		102	80 - 120	3	20
Sodium	20.0	20.7		mg/L		103	80 - 120	4	20

Lab Sample ID: MB 580-237243/14-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		01/27/17 08:54	01/27/17 16:41	1
Iron	ND		0.30		mg/L		01/27/17 08:54	01/27/17 16:41	1
Magnesium	ND		1.1		mg/L		01/27/17 08:54	01/27/17 16:41	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 580-237243/14-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020		mg/L		01/27/17 08:54	01/27/17 16:41	1
Potassium	ND		3.3		mg/L		01/27/17 08:54	01/27/17 16:41	1
Sodium	ND		2.0		mg/L		01/27/17 08:54	01/27/17 16:41	1

Lab Sample ID: LCS 580-237243/15-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	18.6		mg/L		93	80 - 120
Iron	22.0	20.3		mg/L		92	80 - 120
Magnesium	20.0	18.5		mg/L		93	80 - 120
Manganese	1.00	0.938		mg/L		94	80 - 120
Potassium	20.0	19.8		mg/L		99	80 - 120
Sodium	20.0	19.9		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-237243/16-A
Matrix: Water
Analysis Batch: 237364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.0		mg/L		95	80 - 120	2	20
Iron	22.0	20.9		mg/L		95	80 - 120	3	20
Magnesium	20.0	19.1		mg/L		95	80 - 120	3	20
Manganese	1.00	0.956		mg/L		96	80 - 120	2	20
Potassium	20.0	20.3		mg/L		101	80 - 120	3	20
Sodium	20.0	20.4		mg/L		102	80 - 120	2	20

Lab Sample ID: MB 580-237313/14-A
Matrix: Water
Analysis Batch: 237429

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		01/27/17 15:41	01/30/17 16:39	1
Iron	ND		0.30		mg/L		01/27/17 15:41	01/30/17 16:39	1
Magnesium	ND		1.1		mg/L		01/27/17 15:41	01/30/17 16:39	1
Manganese	ND		0.020		mg/L		01/27/17 15:41	01/30/17 16:39	1
Potassium	ND		3.3		mg/L		01/27/17 15:41	01/30/17 16:39	1
Sodium	ND		2.0		mg/L		01/27/17 15:41	01/30/17 16:39	1

Lab Sample ID: LCS 580-237313/15-A
Matrix: Water
Analysis Batch: 237429

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	18.7		mg/L		93	80 - 120
Iron	22.0	20.6		mg/L		94	80 - 120
Magnesium	20.0	18.8		mg/L		94	80 - 120
Manganese	1.00	0.933		mg/L		93	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-237313/15-A
Matrix: Water
Analysis Batch: 237429

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			20.0	18.9		mg/L		94	80 - 120		
Sodium			20.0	18.6		mg/L		93	80 - 120		

Lab Sample ID: LCSD 580-237313/16-A
Matrix: Water
Analysis Batch: 237429

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	17.8		mg/L		89	80 - 120	5	20
Iron			22.0	19.9		mg/L		91	80 - 120	4	20
Magnesium			20.0	18.0		mg/L		90	80 - 120	4	20
Manganese			1.00	0.915		mg/L		92	80 - 120	2	20
Potassium			20.0	18.0		mg/L		90	80 - 120	5	20
Sodium			20.0	17.6		mg/L		88	80 - 120	6	20

Lab Sample ID: 580-65638-1 MS
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-21
Prep Type: Dissolved
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium	120		20.0	146	4	mg/L		110	75 - 125		
Iron	ND		22.0	21.6		mg/L		98	75 - 125		
Magnesium	46		20.0	67.2		mg/L		104	75 - 125		
Manganese	ND		1.00	0.984		mg/L		98	75 - 125		
Potassium	6.1		20.0	27.0		mg/L		105	75 - 125		
Sodium	29		20.0	49.5		mg/L		104	75 - 125		

Lab Sample ID: 580-65638-1 MSD
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-21
Prep Type: Dissolved
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	120		20.0	146	4	mg/L		112	75 - 125	0	20
Iron	ND		22.0	21.8		mg/L		99	75 - 125	1	20
Magnesium	46		20.0	67.3		mg/L		104	75 - 125	0	20
Manganese	ND		1.00	1.00		mg/L		100	75 - 125	2	20
Potassium	6.1		20.0	27.2		mg/L		105	75 - 125	1	20
Sodium	29		20.0	49.7		mg/L		105	75 - 125	0	20

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-21
Prep Type: Dissolved
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	120			126		mg/L				2	20
Iron	ND			ND		mg/L				NC	20
Magnesium	46			47.6		mg/L				2	20
Manganese	ND			ND		mg/L				NC	20
Potassium	6.1			6.19		mg/L				2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-21
Prep Type: Dissolved
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sodium	29		29.1		mg/L		1	20

Lab Sample ID: 580-65638-5 MS
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-26
Prep Type: Dissolved
Prep Batch: 237243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	120		20.0	140	4	mg/L		111	75 - 125
Iron	ND		22.0	20.7		mg/L		94	75 - 125
Magnesium	46		20.0	64.4		mg/L		94	75 - 125
Manganese	ND		1.00	0.946		mg/L		95	75 - 125
Potassium	6.1		20.0	26.9		mg/L		104	75 - 125
Sodium	27		20.0	49.6		mg/L		111	75 - 125

Lab Sample ID: 580-65638-5 MSD
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-26
Prep Type: Dissolved
Prep Batch: 237243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	120		20.0	139	4	mg/L		103	75 - 125	1	20
Iron	ND		22.0	20.4		mg/L		93	75 - 125	2	20
Magnesium	46		20.0	63.9		mg/L		92	75 - 125	1	20
Manganese	ND		1.00	0.929		mg/L		93	75 - 125	2	20
Potassium	6.1		20.0	26.5		mg/L		102	75 - 125	1	20
Sodium	27		20.0	48.9		mg/L		108	75 - 125	2	20

Lab Sample ID: 580-65638-5 DU
Matrix: Water
Analysis Batch: 237364

Client Sample ID: 0117-26
Prep Type: Dissolved
Prep Batch: 237243

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	120		125		mg/L		6	20
Iron	ND		ND		mg/L		NC	20
Magnesium	46		48.0		mg/L		5	20
Manganese	ND		ND		mg/L		NC	20
Potassium	6.1		6.43		mg/L		6	20
Sodium	27		29.3		mg/L		7	20

Lab Sample ID: 580-65638-10 MS
Matrix: Water
Analysis Batch: 237429

Client Sample ID: 0117-06
Prep Type: Dissolved
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	100		20.0	122	4	mg/L		98	75 - 125
Iron	ND		22.0	21.5		mg/L		98	75 - 125
Magnesium	34	F1	20.0	53.2		mg/L		94	75 - 125
Manganese	ND		1.00	0.972		mg/L		97	75 - 125
Potassium	5.3		20.0	25.3		mg/L		100	75 - 125
Sodium	18		20.0	37.8		mg/L		98	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-65638-10 MSD
Matrix: Water
Analysis Batch: 237429

Client Sample ID: 0117-06
Prep Type: Dissolved
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	100		20.0	111	4	mg/L		41	75 - 125	10	20
Iron	ND		22.0	19.9		mg/L		90	75 - 125	8	20
Magnesium	34	F1	20.0	48.6	F1	mg/L		71	75 - 125	9	20
Manganese	ND		1.00	0.911		mg/L		91	75 - 125	6	20
Potassium	5.3		20.0	23.0		mg/L		88	75 - 125	10	20
Sodium	18		20.0	34.1		mg/L		79	75 - 125	10	20

Lab Sample ID: 580-65638-10 DU
Matrix: Water
Analysis Batch: 237429

Client Sample ID: 0117-06
Prep Type: Dissolved
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	100		97.1		mg/L		6	20
Iron	ND		ND		mg/L		NC	20
Magnesium	34	F1	31.9		mg/L		8	20
Manganese	ND		ND		mg/L		NC	20
Potassium	5.3		5.04		mg/L		6	20
Sodium	18		17.7		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-237196/14-A
Matrix: Water
Analysis Batch: 237354

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Arsenic	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 15:29	1
Barium	ND		0.0012		mg/L		01/26/17 15:29	01/27/17 15:29	1
Beryllium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Cadmium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Chromium	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Cobalt	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Copper	ND		0.0020		mg/L		01/26/17 15:29	01/27/17 15:29	1
Lead	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Nickel	ND		0.0030		mg/L		01/26/17 15:29	01/27/17 15:29	1
Selenium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 15:29	1
Silver	ND		0.00040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Thallium	ND		0.0010		mg/L		01/26/17 15:29	01/27/17 15:29	1
Vanadium	ND		0.0040		mg/L		01/26/17 15:29	01/27/17 15:29	1
Zinc	ND		0.0070		mg/L		01/26/17 15:29	01/27/17 15:29	1

Lab Sample ID: LCS 580-237196/15-A
Matrix: Water
Analysis Batch: 237354

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.83		mg/L		94	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-237196/15-A
Matrix: Water
Analysis Batch: 237354

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.00	3.95		mg/L		99	80 - 120
Barium	4.00	3.89		mg/L		97	80 - 120
Beryllium	0.100	0.0995		mg/L		100	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.390		mg/L		98	80 - 120
Cobalt	1.00	0.931		mg/L		93	80 - 120
Copper	0.500	0.481		mg/L		96	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Nickel	1.00	0.977		mg/L		98	80 - 120
Selenium	4.00	4.01		mg/L		100	80 - 120
Silver	0.600	0.601		mg/L		100	80 - 120
Thallium	4.00	4.10		mg/L		102	80 - 120
Vanadium	1.00	0.984		mg/L		98	80 - 120
Zinc	4.00	3.90		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-237196/16-A
Matrix: Water
Analysis Batch: 237354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.85		mg/L		95	80 - 120	1	20
Arsenic	4.00	3.98		mg/L		99	80 - 120	1	20
Barium	4.00	3.93		mg/L		98	80 - 120	1	20
Beryllium	0.100	0.0989		mg/L		99	80 - 120	1	20
Cadmium	0.100	0.105		mg/L		105	80 - 120	4	20
Chromium	0.400	0.393		mg/L		98	80 - 120	1	20
Cobalt	1.00	0.927		mg/L		93	80 - 120	0	20
Copper	0.500	0.484		mg/L		97	80 - 120	1	20
Lead	1.00	1.04		mg/L		104	80 - 120	0	20
Nickel	1.00	0.995		mg/L		99	80 - 120	2	20
Selenium	4.00	4.06		mg/L		102	80 - 120	1	20
Silver	0.600	0.603		mg/L		101	80 - 120	0	20
Thallium	4.00	4.04		mg/L		101	80 - 120	1	20
Vanadium	1.00	0.977		mg/L		98	80 - 120	1	20
Zinc	4.00	3.95		mg/L		99	80 - 120	1	20

Lab Sample ID: 580-65638-1 MS
Matrix: Water
Analysis Batch: 237354

Client Sample ID: 0117-21
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00041		3.00	2.94		mg/L		98	80 - 120
Arsenic	0.0033		4.00	4.14		mg/L		103	80 - 120
Barium	0.033		4.00	4.04		mg/L		100	80 - 120
Beryllium	ND		0.100	0.0983		mg/L		98	80 - 120
Cadmium	ND		0.100	0.101		mg/L		101	80 - 120
Chromium	0.010		0.400	0.420		mg/L		102	80 - 120
Cobalt	ND		1.00	0.977		mg/L		98	80 - 120
Copper	ND		0.500	0.502		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65638-1 MS
Matrix: Water
Analysis Batch: 237354

Client Sample ID: 0117-21
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		1.00	1.09		mg/L		109	80 - 120
Nickel	ND		1.00	1.02		mg/L		102	80 - 120
Selenium	ND		4.00	4.23		mg/L		106	80 - 120
Silver	ND		0.600	0.625		mg/L		104	80 - 120
Thallium	ND		4.00	4.28		mg/L		107	80 - 120
Vanadium	0.0062		1.00	1.04		mg/L		103	80 - 120
Zinc	ND		4.00	4.11		mg/L		103	80 - 120

Lab Sample ID: 580-65638-1 MSD
Matrix: Water
Analysis Batch: 237354

Client Sample ID: 0117-21
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00041		3.00	2.83		mg/L		94	80 - 120	4	20
Arsenic	0.0033		4.00	4.00		mg/L		100	80 - 120	3	20
Barium	0.033		4.00	3.93		mg/L		97	80 - 120	3	20
Beryllium	ND		0.100	0.0996		mg/L		100	80 - 120	1	20
Cadmium	ND		0.100	0.106		mg/L		106	80 - 120	4	20
Chromium	0.010		0.400	0.410		mg/L		100	80 - 120	2	20
Cobalt	ND		1.00	0.931		mg/L		93	80 - 120	5	20
Copper	ND		0.500	0.483		mg/L		97	80 - 120	4	20
Lead	ND		1.00	1.06		mg/L		106	80 - 120	3	20
Nickel	ND		1.00	0.974		mg/L		97	80 - 120	5	20
Selenium	ND		4.00	4.15		mg/L		104	80 - 120	2	20
Silver	ND		0.600	0.611		mg/L		102	80 - 120	2	20
Thallium	ND		4.00	4.11		mg/L		103	80 - 120	4	20
Vanadium	0.0062		1.00	0.993		mg/L		99	80 - 120	4	20
Zinc	ND		4.00	3.96		mg/L		99	80 - 120	4	20

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 237354

Client Sample ID: 0117-21
Prep Type: Total Recoverable
Prep Batch: 237196

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.00041		ND		mg/L		NC	20
Arsenic	0.0033		0.00305		mg/L		9	20
Barium	0.033		0.0312		mg/L		5	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.010		0.0100		mg/L		4	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0062		0.00583		mg/L		6	20
Zinc	ND		ND		mg/L		NC	20

QC Sample Results

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Lab Sample ID: MB 580-237243/14-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Arsenic	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 14:14	1
Barium	ND		0.0012		mg/L		01/27/17 08:54	01/30/17 14:14	1
Beryllium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Cadmium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Chromium	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Cobalt	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Copper	ND		0.0020		mg/L		01/27/17 08:54	01/30/17 14:14	1
Lead	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Nickel	ND		0.0030		mg/L		01/27/17 08:54	01/30/17 14:14	1
Selenium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 14:14	1
Silver	ND		0.00040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Thallium	ND		0.0010		mg/L		01/27/17 08:54	01/30/17 14:14	1
Vanadium	ND		0.0040		mg/L		01/27/17 08:54	01/30/17 14:14	1
Zinc	ND		0.0070		mg/L		01/27/17 08:54	01/30/17 14:14	1

Lab Sample ID: LCS 580-237243/15-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.19		mg/L		106	80 - 120
Arsenic	4.00	4.20		mg/L		105	80 - 120
Barium	4.00	4.28		mg/L		107	80 - 120
Beryllium	0.100	0.105		mg/L		105	80 - 120
Cadmium	0.100	0.105		mg/L		105	80 - 120
Chromium	0.400	0.424		mg/L		106	80 - 120
Cobalt	1.00	1.04		mg/L		104	80 - 120
Copper	0.500	0.533		mg/L		107	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Nickel	1.00	1.05		mg/L		105	80 - 120
Selenium	4.00	4.29		mg/L		107	80 - 120
Silver	0.600	0.618		mg/L		103	80 - 120
Thallium	4.00	4.24		mg/L		106	80 - 120
Vanadium	1.00	1.06		mg/L		106	80 - 120
Zinc	4.00	4.16		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-237243/16-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.42		mg/L		114	80 - 120	7	20
Arsenic	4.00	4.52		mg/L		113	80 - 120	7	20
Barium	4.00	4.67		mg/L		117	80 - 120	9	20
Beryllium	0.100	0.117		mg/L		117	80 - 120	11	20
Cadmium	0.100	0.114		mg/L		114	80 - 120	8	20
Chromium	0.400	0.464		mg/L		116	80 - 120	9	20
Cobalt	1.00	1.13		mg/L		113	80 - 120	8	20
Copper	0.500	0.568		mg/L		114	80 - 120	6	20
Lead	1.00	1.12		mg/L		112	80 - 120	8	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-237243/16-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel			1.00	1.14		mg/L		114	80 - 120	8	20
Selenium			4.00	4.57		mg/L		114	80 - 120	6	20
Silver			0.600	0.665		mg/L		111	80 - 120	7	20
Thallium			4.00	4.59		mg/L		115	80 - 120	8	20
Vanadium			1.00	1.14		mg/L		114	80 - 120	7	20
Zinc			4.00	4.47		mg/L		112	80 - 120	7	20

Lab Sample ID: 580-65638-5 MS
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-26
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.09		mg/L		103	80 - 120
Arsenic	0.0023		4.00	4.12		mg/L		103	80 - 120
Barium	0.031		4.00	4.13		mg/L		103	80 - 120
Beryllium	ND		0.100	0.0978		mg/L		98	80 - 120
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120
Chromium	0.012		0.400	0.427		mg/L		104	80 - 120
Cobalt	ND		1.00	1.02		mg/L		102	80 - 120
Copper	ND		0.500	0.515		mg/L		103	80 - 120
Lead	ND		1.00	1.01		mg/L		101	80 - 120
Nickel	ND		1.00	1.04		mg/L		103	80 - 120
Selenium	ND		4.00	4.16		mg/L		104	80 - 120
Silver	ND		0.600	0.604		mg/L		101	80 - 120
Thallium	ND		4.00	4.25		mg/L		106	80 - 120
Vanadium	0.0043		1.00	1.04		mg/L		104	80 - 120
Zinc	ND		4.00	4.05		mg/L		101	80 - 120

Lab Sample ID: 580-65638-5 MSD
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-26
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.93		mg/L		98	80 - 120	5	20
Arsenic	0.0023		4.00	4.08		mg/L		102	80 - 120	1	20
Barium	0.031		4.00	4.11		mg/L		102	80 - 120	1	20
Beryllium	ND		0.100	0.107		mg/L		107	80 - 120	9	20
Cadmium	ND		0.100	0.102		mg/L		102	80 - 120	1	20
Chromium	0.012		0.400	0.435		mg/L		106	80 - 120	2	20
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120	1	20
Copper	ND		0.500	0.518		mg/L		104	80 - 120	1	20
Lead	ND		1.00	0.985		mg/L		98	80 - 120	2	20
Nickel	ND		1.00	1.02		mg/L		102	80 - 120	2	20
Selenium	ND		4.00	4.15		mg/L		104	80 - 120	0	20
Silver	ND		0.600	0.597		mg/L		99	80 - 120	1	20
Thallium	ND		4.00	4.16		mg/L		104	80 - 120	2	20
Vanadium	0.0043		1.00	1.05		mg/L		104	80 - 120	1	20
Zinc	ND		4.00	4.03		mg/L		101	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65638-5 DU
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-26
Prep Type: Total Recoverable
Prep Batch: 237243

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0023		0.00242		mg/L		3	20
Barium	0.031		0.0321		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.012		0.0125		mg/L		2	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0043		0.00452		mg/L		4	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-237313/14-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Arsenic	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 16:41	1
Barium	ND		0.0012		mg/L		01/27/17 15:41	01/30/17 16:41	1
Beryllium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Cadmium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Chromium	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Cobalt	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Copper	ND		0.0020		mg/L		01/27/17 15:41	01/30/17 16:41	1
Lead	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Nickel	ND		0.0030		mg/L		01/27/17 15:41	01/30/17 16:41	1
Selenium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 16:41	1
Silver	ND		0.00040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Thallium	ND		0.0010		mg/L		01/27/17 15:41	01/30/17 16:41	1
Vanadium	ND		0.0040		mg/L		01/27/17 15:41	01/30/17 16:41	1
Zinc	ND		0.0070		mg/L		01/27/17 15:41	01/30/17 16:41	1

Lab Sample ID: LCS 580-237313/15-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.68		mg/L		89	80 - 120
Arsenic	4.00	3.59		mg/L		90	80 - 120
Barium	4.00	3.63		mg/L		91	80 - 120
Beryllium	0.100	0.0942		mg/L		94	80 - 120
Cadmium	0.100	0.0895		mg/L		90	80 - 120
Chromium	0.400	0.363		mg/L		91	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-237313/15-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	1.00	0.893		mg/L		89	80 - 120
Copper	0.500	0.450		mg/L		90	80 - 120
Lead	1.00	0.906		mg/L		91	80 - 120
Nickel	1.00	0.895		mg/L		90	80 - 120
Selenium	4.00	3.63		mg/L		91	80 - 120
Silver	0.600	0.532		mg/L		89	80 - 120
Thallium	4.00	3.82		mg/L		95	80 - 120
Vanadium	1.00	0.915		mg/L		91	80 - 120
Zinc	4.00	3.57		mg/L		89	80 - 120

Lab Sample ID: LCSD 580-237313/16-A
Matrix: Water
Analysis Batch: 237422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.61		mg/L		87	80 - 120	3	20
Arsenic	4.00	3.65		mg/L		91	80 - 120	2	20
Barium	4.00	3.70		mg/L		92	80 - 120	2	20
Beryllium	0.100	0.0948		mg/L		95	80 - 120	1	20
Cadmium	0.100	0.0931		mg/L		93	80 - 120	4	20
Chromium	0.400	0.378		mg/L		95	80 - 120	4	20
Cobalt	1.00	0.907		mg/L		91	80 - 120	2	20
Copper	0.500	0.461		mg/L		92	80 - 120	2	20
Lead	1.00	0.919		mg/L		92	80 - 120	1	20
Nickel	1.00	0.918		mg/L		92	80 - 120	3	20
Selenium	4.00	3.73		mg/L		93	80 - 120	3	20
Silver	0.600	0.536		mg/L		89	80 - 120	1	20
Thallium	4.00	3.89		mg/L		97	80 - 120	2	20
Vanadium	1.00	0.947		mg/L		95	80 - 120	3	20
Zinc	4.00	3.59		mg/L		90	80 - 120	0	20

Lab Sample ID: 580-65638-10 MS
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-06
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00046		3.00	2.89		mg/L		96	80 - 120
Arsenic	0.0033		4.00	3.96		mg/L		99	80 - 120
Barium	0.028		4.00	4.00		mg/L		99	80 - 120
Beryllium	ND		0.100	0.0962		mg/L		96	80 - 120
Cadmium	ND		0.100	0.101		mg/L		101	80 - 120
Chromium	0.0039		0.400	0.409		mg/L		101	80 - 120
Cobalt	ND		1.00	0.984		mg/L		98	80 - 120
Copper	0.0027		0.500	0.501		mg/L		100	80 - 120
Lead	ND		1.00	0.986		mg/L		99	80 - 120
Nickel	0.0048		1.00	0.990		mg/L		98	80 - 120
Selenium	ND		4.00	4.08		mg/L		102	80 - 120
Silver	ND		0.600	0.581		mg/L		97	80 - 120
Thallium	ND		4.00	4.20		mg/L		105	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65638-10 MS
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-06
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	0.0058		1.00	1.01		mg/L		100	80 - 120
Zinc	ND		4.00	3.92		mg/L		98	80 - 120

Lab Sample ID: 580-65638-10 MSD
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-06
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00046		3.00	2.61		mg/L		87	80 - 120	10	20
Arsenic	0.0033		4.00	3.71		mg/L		93	80 - 120	7	20
Barium	0.028		4.00	3.67		mg/L		91	80 - 120	9	20
Beryllium	ND		0.100	0.0933		mg/L		93	80 - 120	3	20
Cadmium	ND		0.100	0.0922		mg/L		92	80 - 120	9	20
Chromium	0.0039		0.400	0.379		mg/L		94	80 - 120	7	20
Cobalt	ND		1.00	0.922		mg/L		92	80 - 120	6	20
Copper	0.0027		0.500	0.469		mg/L		93	80 - 120	6	20
Lead	ND		1.00	0.913		mg/L		91	80 - 120	8	20
Nickel	0.0048		1.00	0.932		mg/L		93	80 - 120	6	20
Selenium	ND		4.00	3.82		mg/L		96	80 - 120	7	20
Silver	ND		0.600	0.543		mg/L		90	80 - 120	7	20
Thallium	ND		4.00	4.00		mg/L		100	80 - 120	5	20
Vanadium	0.0058		1.00	0.941		mg/L		93	80 - 120	7	20
Zinc	ND		4.00	3.67		mg/L		92	80 - 120	7	20

Lab Sample ID: 580-65638-10 DU
Matrix: Water
Analysis Batch: 237422

Client Sample ID: 0117-06
Prep Type: Total Recoverable
Prep Batch: 237313

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.00046		ND		mg/L		NC	20
Arsenic	0.0033		0.00333		mg/L		1	20
Barium	0.028		0.0284		mg/L		0.1	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0039		0.00400		mg/L		2	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0027		0.00280		mg/L		2	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0048		0.00492		mg/L		2	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0058		0.00598		mg/L		2	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-237549/3
Matrix: Water
Analysis Batch: 237549

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/31/17 07:44	1
Chloride	ND		0.90		mg/L			01/31/17 07:44	1
Sulfate	ND		1.2		mg/L			01/31/17 07:44	1

Lab Sample ID: LCS 580-237549/4
Matrix: Water
Analysis Batch: 237549

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			5.00	4.91		mg/L		98	90 - 110		
Chloride			50.0	48.1		mg/L		96	90 - 110		
Sulfate			50.0	48.4		mg/L		97	90 - 110		

Lab Sample ID: LCSD 580-237549/5
Matrix: Water
Analysis Batch: 237549

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			5.00	4.89		mg/L		98	90 - 110	0	15
Chloride			50.0	48.1		mg/L		96	90 - 110	0	15
Sulfate			50.0	48.3		mg/L		97	90 - 110	0	15

Lab Sample ID: 580-65638-6 MS
Matrix: Water
Analysis Batch: 237549

Client Sample ID: 0117-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND		5.00	4.98		mg/L		100	90 - 110		
Chloride	35		50.0	86.1		mg/L		101	90 - 110		
Sulfate	22		50.0	75.6		mg/L		107	90 - 110		

Lab Sample ID: 580-65638-6 MSD
Matrix: Water
Analysis Batch: 237549

Client Sample ID: 0117-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.09		mg/L		102	90 - 110	2	15
Chloride	35		50.0	87.1		mg/L		103	90 - 110	1	15
Sulfate	22		50.0	76.3		mg/L		108	90 - 110	1	15

Lab Sample ID: MB 580-237860/2
Matrix: Water
Analysis Batch: 237860

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 08:33	1
Chloride	ND		0.90		mg/L			02/03/17 08:33	1
Sulfate	ND		1.2		mg/L			02/03/17 08:33	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-237860/3
Matrix: Water
Analysis Batch: 237860

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.92		mg/L		98	90 - 110
Chloride	50.0	47.9		mg/L		96	90 - 110
Sulfate	50.0	48.4		mg/L		97	90 - 110

Lab Sample ID: LCSD 580-237860/4
Matrix: Water
Analysis Batch: 237860

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.91		mg/L		98	90 - 110	0	15
Chloride	50.0	47.7		mg/L		95	90 - 110	0	15
Sulfate	50.0	48.3		mg/L		97	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-237323/1-A
Matrix: Water
Analysis Batch: 237427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/28/17 11:40	01/31/17 08:41	1

Lab Sample ID: LCS 580-237323/2-A
Matrix: Water
Analysis Batch: 237427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.83		mg/L		92	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-238021/14
Matrix: Water
Analysis Batch: 238021

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 12:51	1

Lab Sample ID: LCS 580-238021/15
Matrix: Water
Analysis Batch: 238021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.965		mg/L		97	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCSD 580-238021/16
Matrix: Water
Analysis Batch: 238021

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.962		mg/L		96	90 - 110	0	20

Lab Sample ID: 580-65638-1 MS
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	6.1		0.500	6.46	4	mg/L		81	90 - 110

Lab Sample ID: 580-65638-1 MSD
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	6.1		0.500	6.46	4	mg/L		81	90 - 110	0	20

Lab Sample ID: 580-65638-11 MS
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.057	F1	0.500	0.425	F1	mg/L		74	90 - 110

Lab Sample ID: 580-65638-11 MSD
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.057	F1	0.500	0.427	F1	mg/L		74	90 - 110	0	20

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	6.1		6.08		mg/L		0.5	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-237202/2
Matrix: Water
Analysis Batch: 237202

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	99.4		mg/L		99	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-237311/1
Matrix: Water
Analysis Batch: 237311

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			01/27/17 14:56	1

Lab Sample ID: LCS 580-237311/2
Matrix: Water
Analysis Batch: 237311

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1030		mg/L		103	80 - 120		

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 237311

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	630			624		mg/L				1	20

Lab Sample ID: 580-65638-11 DU
Matrix: Water
Analysis Batch: 237311

Client Sample ID: 0117-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	390			392		mg/L				0.8	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-237556/3-A
Matrix: Water
Analysis Batch: 237558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237556

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Lab Sample ID: LCS 580-237556/4-A
Matrix: Water
Analysis Batch: 237558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237556

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	74.2		mg/L		99	80 - 120		

Lab Sample ID: 580-65638-1 MS
Matrix: Water
Analysis Batch: 237558

Client Sample ID: 0117-21
Prep Type: Total/NA
Prep Batch: 237556

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND		25.0	22.4		mg/L		90	75 - 125		

Method: SM 5220D - COD (Continued)

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 237558

Client Sample ID: 0117-21
Prep Type: Total/NA
Prep Batch: 237556

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND			ND		mg/L				NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-237559/3
Matrix: Water
Analysis Batch: 237559

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			01/31/17 20:14	1

Lab Sample ID: LCS 580-237559/4
Matrix: Water
Analysis Batch: 237559

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	8.57		mg/L		86	85 - 115		

Lab Sample ID: 580-65638-10 MS
Matrix: Water
Analysis Batch: 237559

Client Sample ID: 0117-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.2	F1	10.0	9.60	F1	mg/L		84	85 - 115		

Lab Sample ID: 580-65638-10 MSD
Matrix: Water
Analysis Batch: 237559

Client Sample ID: 0117-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.2	F1	10.0	9.23	F1	mg/L		81	85 - 115	4	20

Lab Sample ID: 580-65638-10 DU
Matrix: Water
Analysis Batch: 237559

Client Sample ID: 0117-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	1.2	F1		1.03		mg/L				12	20

Lab Sample ID: MB 580-237677/3
Matrix: Water
Analysis Batch: 237677

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			01/31/17 12:46	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-237677/4
Matrix: Water
Analysis Batch: 237677

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	9.00		mg/L		90	85 - 115		

Lab Sample ID: 580-65638-1 MS
Matrix: Water
Analysis Batch: 237677

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.1		10.0	10.2		mg/L		91	85 - 115		

Lab Sample ID: 580-65638-1 MSD
Matrix: Water
Analysis Batch: 237677

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.1		10.0	9.84		mg/L		87	85 - 115	4	20

Lab Sample ID: 580-65638-1 DU
Matrix: Water
Analysis Batch: 237677

Client Sample ID: 0117-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	1.1			ND		mg/L				NC	20

Client Sample ID: 0117-21

Lab Sample ID: 580-65638-1

Date Collected: 01/23/17 11:23

Matrix: Water

Date Received: 01/25/17 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237819	02/05/17 01:21	TL1	TAL SEA
Dissolved	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 13:02	HJM	TAL SEA
Total Recoverable	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237354	01/27/17 15:42	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237549	01/31/17 13:12	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 12:55	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-20

Lab Sample ID: 580-65638-2

Date Collected: 01/23/17 12:27

Matrix: Water

Date Received: 01/25/17 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237819	02/05/17 01:46	TL1	TAL SEA
Dissolved	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 13:05	HJM	TAL SEA
Total Recoverable	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237354	01/27/17 16:22	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237549	01/31/17 13:27	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 12:59	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-15

Lab Sample ID: 580-65638-3

Date Collected: 01/23/17 14:05

Matrix: Water

Date Received: 01/25/17 17:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237819	02/05/17 02:12	TL1	TAL SEA
Dissolved	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA

Client Sample ID: 0117-15

Date Collected: 01/23/17 14:05
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	237364	01/27/17 13:09	HJM	TAL SEA
Total Recoverable	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237354	01/27/17 16:27	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237549	01/31/17 13:43	RSB	TAL SEA
Total/NA	Analysis	300.0		10	237549	02/01/17 11:52	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:01	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-16

Date Collected: 01/23/17 15:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237819	02/05/17 02:37	TL1	TAL SEA
Dissolved	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 13:12	HJM	TAL SEA
Total Recoverable	Prep	3005A			237196	01/26/17 15:29	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237354	01/27/17 16:31	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237549	01/31/17 13:58	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:02	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-26

Date Collected: 01/23/17 16:17
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237819	02/05/17 03:02	TL1	TAL SEA
Total/NA	Prep	8151A			237389	01/30/17 15:57	Y1W	TAL SEA
Total/NA	Analysis	8151A		1	237512	02/01/17 12:36	ERB	TAL SEA

Client Sample ID: 0117-26

Date Collected: 01/23/17 16:17
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A	RE		237943	02/07/17 15:18	ERZ	TAL SEA
Total/NA	Analysis	8151A	RE	1	238011	02/08/17 16:45	ERZ	TAL SEA
Dissolved	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 16:50	HJM	TAL SEA
Total Recoverable	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 15:08	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237549	01/31/17 14:13	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		10	238021	02/08/17 13:05	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-32

Date Collected: 01/23/17 12:45
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237819	02/05/17 03:27	TL1	TAL SEA
Dissolved	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 17:15	HJM	TAL SEA
Total Recoverable	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 15:12	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237549	01/31/17 14:29	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:06	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-14

Date Collected: 01/24/17 09:33
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 03:19	W1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-14

Date Collected: 01/24/17 09:33
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 17:18	HJM	TAL SEA
Total Recoverable	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 15:16	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 14:18	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:08	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-19

Date Collected: 01/24/17 10:45
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 03:45	W1T	TAL SEA
Dissolved	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237364	01/27/17 17:22	HJM	TAL SEA
Total Recoverable	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 15:21	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 14:33	RSB	TAL SEA
Total/NA	Analysis	300.0		10	237860	02/06/17 11:29	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:09	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-31

Date Collected: 01/24/17 11:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 04:11	W1T	TAL SEA
Dissolved	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA

Client Sample ID: 0117-31

Date Collected: 01/24/17 11:00
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	237364	01/27/17 17:25	HJM	TAL SEA
Total Recoverable	Prep	3005A			237243	01/27/17 08:54	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 15:25	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 14:48	RSB	TAL SEA
Total/NA	Analysis	300.0		10	237860	02/06/17 11:44	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:10	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237677	01/31/17 12:46	Z1T	TAL SEA

Client Sample ID: 0117-06

Date Collected: 01/24/17 12:25
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 04:36	W1T	TAL SEA
Dissolved	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237429	01/30/17 16:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 16:55	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 15:04	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:11	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-07

Date Collected: 01/24/17 13:44
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 05:02	W1T	TAL SEA
Dissolved	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237429	01/30/17 17:16	HJM	TAL SEA

Client Sample ID: 0117-07

Date Collected: 01/24/17 13:44
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 17:35	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 15:19	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:12	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-02

Date Collected: 01/24/17 16:06
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 05:27	W1T	TAL SEA
Dissolved	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237429	01/30/17 17:19	HJM	TAL SEA
Total Recoverable	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 17:40	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 15:35	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:49	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:16	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-13

Date Collected: 01/24/17 17:20
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 05:53	W1T	TAL SEA
Dissolved	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237429	01/30/17 17:23	HJM	TAL SEA
Total Recoverable	Prep	3005A			237313	01/27/17 15:41	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237422	01/30/17 17:44	FCW	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Client Sample ID: 0117-13

Date Collected: 01/24/17 17:20
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	237860	02/03/17 15:50	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237323	01/28/17 11:49	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237427	01/31/17 08:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:19	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237202	01/26/17 15:37	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237311	01/27/17 14:56	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: TRIP BLANK

Date Collected: 01/24/17 00:01
Date Received: 01/25/17 17:40

Lab Sample ID: 580-65638-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237825	02/06/17 01:35	W1T	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2540C		Water	Total Dissolved Solids

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-65638-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-65638-1	0117-21	Water	01/23/17 11:23	01/25/17 17:40
580-65638-2	0117-20	Water	01/23/17 12:27	01/25/17 17:40
580-65638-3	0117-15	Water	01/23/17 14:05	01/25/17 17:40
580-65638-4	0117-16	Water	01/23/17 15:00	01/25/17 17:40
580-65638-5	0117-26	Water	01/23/17 16:17	01/25/17 17:40
580-65638-6	0117-32	Water	01/23/17 12:45	01/25/17 17:40
580-65638-7	0117-14	Water	01/24/17 09:33	01/25/17 17:40
580-65638-8	0117-19	Water	01/24/17 10:45	01/25/17 17:40
580-65638-9	0117-31	Water	01/24/17 11:00	01/25/17 17:40
580-65638-10	0117-06	Water	01/24/17 12:25	01/25/17 17:40
580-65638-11	0117-07	Water	01/24/17 13:44	01/25/17 17:40
580-65638-12	0117-02	Water	01/24/17 16:06	01/25/17 17:40
580-65638-13	0117-13	Water	01/24/17 17:20	01/25/17 17:40
580-65638-14	TRIP BLANK	Water	01/24/17 00:01	01/25/17 17:40

TestAmerica
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TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

Loc: 580
65638

☐ Rush
☐ Short Hold

Chain of Custody Record

Client: SCS Engineers	Client Contact: Dan Venchiarutti	Date: 1/24/17	Chain of Custody Number: 33169
Address: 2405 140th Avenue NE Suite 107	Telephone Number (Area Code)/Fax Number: 425-766-2502	Lab Number:	Page 1 of 1
City: Bellevue / State: WA / Zip Code: 98005	Sampler: Sam G.	Lab Contact: ~~Kelly~~ Cathy	
Project Name and Location (State): Coupeville Solid Waste Facility	Billing Contact: Gamble		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260 B_LL	TDS	Cl, F, SO4	Nitrate combo	8151A
0117-21	1/23/17	1123		X			3	4	2	6			X	X	X	X	X	X	X	X	X	X	
0117-20		1227																					
0117-15		1405																					
0117-16		1500																					
0117-26		1617																					X
0117-32		1245																					
0117-14	1/24/17	933																					
0117-19		1045																					
0117-31		1100																					
0117-06		1225																					
0117-07		1344																					
0117-02		1606																					

Special Instructions/ Conditions of Receipt

0117-26 includes two 1-liter ambers for 8151 analysis.

580-65638 Chain of Custody

Cooler: ☐ Yes ☐ No Cooler Temp: _____	Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Sam Gabor	1/25/17	900	1. Received By Sign/Print: Francisco Luna J.	1/25/17	1740
2. Relinquished By Sign/Print:			2. Received By Sign/Print:		
3. Relinquished By Sign/Print:			3. Received By Sign/Print:		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

4/5/2017

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Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Vanderwerth	1/25/17	33170
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2405 140th Avenue NE Suite 107	425-766-2502		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Cathy Gamble	
Project Name and Location (State)	**Billing Contact**		
Cowlitz Solid Waste Facility			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260 B_LL	TDS	Cl, F, SO4	Nitrate combo	Special Instructions/ Conditions of Receipt
0117-13	1/24/17	1720		X			3	4	2	6			X	X	X	X	X	X	X	X	X	X	

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: _____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Sam Grabber	1/25/17	900	Francisco Luna, J.	1/25/17	1740
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

4/5/2017

TB A2 Cooler ___ Cor 2.5" Unc 3.7"
Cooler Dsc Lg Blue/White @Lab ___
Wet/Packs Packing Bubble
w/o

TB A2 Cooler ___ Cor 3.3" Unc 4.2"
Cooler Dsc Lg Blue/White @Lab ___
Wet/Packs Packing Bubble
w/o

TB A2 Cooler ___ Cor 2.6" Unc 3.5"
Cooler Dsc Lg Blue/White @Lab ___
Wet/Packs Packing Bubble
w/o

TB A2 Cooler ___ Cor 2.6" Unc 3.5"
Cooler Dsc Lg Blue/White @Lab ___
Wet/Packs Packing Bubble
w/o

TB A2 Cooler ___ Cor 2.8" Unc 3.9"
Cooler Dsc Lg Blue/White @Lab ___
Wet/Packs Packing Bubble
w/o

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-65638-1

Login Number: 65638
List Number: 1
Creator: Gall, Brandon A

List Source: TestAmerica Seattle

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

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-65692-1
Client Project/Site: Coupville Island Co.Solid Waste Facility
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
4/4/2017 4:41:42 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Job ID: 580-65692-1

Laboratory: TestAmerica Seattle

Narrative

Report Revision; Client would like to report to the RL and not the MDL.

Receipt
The samples were received on 1/27/2017 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.5º C, 2.4º C, 3.5º C, 3.6º C, 4.0º C and 4.7º C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-237944 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-237944 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-237944 recovered above the upper control limit for Chloroethane, trans-1,4-Dichloro-2-butene and 1,1,2,2-Tetrachloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0117-95 (580-65692-1), 0117-98 (580-65692-2), 0117-01 (580-65692-3), 0117-97 (580-65692-4), 0117-96 (580-65692-5), 0117-05 (580-65692-6), 0117-10 (580-65692-7), 0117-11 (580-65692-8), 0117-03 (580-65692-9), 0117-04 (580-65692-10), 0117-23 (580-65692-11), 0117-22 (580-65692-12), 0117-24 (580-65692-13), 0117-12 (580-65692-14), 0117-25 (580-65692-15) and (CCVIS 580-237944/2).

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-237944 was flagged as outside criteria for the following analyte(s): 2-Butanone and 1,2-Dibromo-3-Chloropropane. After rounding to significant figures the analytes pass criteria.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 237944 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. The individual percent recoveries for the LCS and LCSD met the acceptance criteria, therefore, the data have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-238357 was flagged as outside criteria for the following analyte(s): Chloroethane. After rounding to significant figures the analyte passes criteria.

Method(s) 8260C: The following samples were analyzed outside of analytical holding time due to instrument contamination and need for maintenance. 0117-09 (580-65692-16), 0117-08 (580-65692-17), 0117-17 (580-65692-18), 0117-18 (580-65692-19), 0117-30 (580-65692-20), 0117-29 (580-65692-21) and TRIP BLANK (580-65692-22). Qualified data have been reported.

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

Metals
Method(s) 6020A: The continuing calibration blank (CCB) for analytical batch 580-237847 contained Ag above the reporting limit (RL). All reported samples associated with this CCB were ND for this analyte; therefore, re-analysis of samples was not performed.

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

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

Definitions/Glossary

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-95
Date Collected: 01/25/17 10:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 01:44	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 01:44	1
Bromomethane	ND		1.0		ug/L			02/08/17 01:44	1
Chloroethane	ND		0.50		ug/L			02/08/17 01:44	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 01:44	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 01:44	1
Methyl iodide	ND		0.50		ug/L			02/08/17 01:44	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 01:44	1
Acetone	ND		2.0		ug/L			02/08/17 01:44	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 01:44	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 01:44	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 01:44	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 01:44	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 01:44	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 01:44	1
2-Butanone	ND		15		ug/L			02/08/17 01:44	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 01:44	1
Chloroform	ND		0.20		ug/L			02/08/17 01:44	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 01:44	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 01:44	1
Benzene	ND		0.20		ug/L			02/08/17 01:44	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 01:44	1
Trichloroethene	ND		0.20		ug/L			02/08/17 01:44	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 01:44	1
Dibromomethane	ND		0.20		ug/L			02/08/17 01:44	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 01:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 01:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 01:44	1
Toluene	ND		0.20		ug/L			02/08/17 01:44	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 01:44	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 01:44	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 01:44	1
2-Hexanone	ND		2.0		ug/L			02/08/17 01:44	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 01:44	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 01:44	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 01:44	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 01:44	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 01:44	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 01:44	1
o-Xylene	ND		0.50		ug/L			02/08/17 01:44	1
Styrene	ND		0.50		ug/L			02/08/17 01:44	1
Bromoform	ND		0.50		ug/L			02/08/17 01:44	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 01:44	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 01:44	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 01:44	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 01:44	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 01:44	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 01:44	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-95
Date Collected: 01/25/17 10:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		75 - 125		02/08/17 01:44	1
Trifluorotoluene (Surr)	105		74 - 118		02/08/17 01:44	1
Dibromofluoromethane (Surr)	106		42 - 132		02/08/17 01:44	1
4-Bromofluorobenzene (Surr)	98		81 - 120		02/08/17 01:44	1
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		02/08/17 01:44	1

Client Sample ID: 0117-98
Date Collected: 01/25/17 11:05
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 02:09	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 02:09	1
Bromomethane	ND		1.0		ug/L			02/08/17 02:09	1
Chloroethane	ND		0.50		ug/L			02/08/17 02:09	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 02:09	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 02:09	1
Methyl iodide	ND		0.50		ug/L			02/08/17 02:09	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 02:09	1
Acetone	ND		2.0		ug/L			02/08/17 02:09	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 02:09	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 02:09	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 02:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 02:09	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 02:09	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 02:09	1
2-Butanone	ND		15		ug/L			02/08/17 02:09	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 02:09	1
Chloroform	ND		0.20		ug/L			02/08/17 02:09	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 02:09	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 02:09	1
Benzene	ND		0.20		ug/L			02/08/17 02:09	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 02:09	1
Trichloroethene	ND		0.20		ug/L			02/08/17 02:09	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 02:09	1
Dibromomethane	ND		0.20		ug/L			02/08/17 02:09	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 02:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 02:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 02:09	1
Toluene	ND		0.20		ug/L			02/08/17 02:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 02:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 02:09	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 02:09	1
2-Hexanone	ND		2.0		ug/L			02/08/17 02:09	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 02:09	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 02:09	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 02:09	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 02:09	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 02:09	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 02:09	1
o-Xylene	ND		0.50		ug/L			02/08/17 02:09	1
Styrene	ND		0.50		ug/L			02/08/17 02:09	1
Bromoform	ND		0.50		ug/L			02/08/17 02:09	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 02:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 02:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 02:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 02:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 02:09	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 02:09	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-98
Date Collected: 01/25/17 11:05
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		75 - 125		02/08/17 02:09	1
Trifluorotoluene (Surr)	98		74 - 118		02/08/17 02:09	1
Dibromofluoromethane (Surr)	106		42 - 132		02/08/17 02:09	1
4-Bromofluorobenzene (Surr)	99		81 - 120		02/08/17 02:09	1
1,2-Dichloroethane-d4 (Surr)	104		46 - 150		02/08/17 02:09	1

Client Sample ID: 0117-01
Date Collected: 01/25/17 11:40
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 02:35	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 02:35	1
Bromomethane	ND		1.0		ug/L			02/08/17 02:35	1
Chloroethane	ND		0.50		ug/L			02/08/17 02:35	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 02:35	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 02:35	1
Methyl iodide	ND		0.50		ug/L			02/08/17 02:35	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 02:35	1
Acetone	ND		2.0		ug/L			02/08/17 02:35	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 02:35	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 02:35	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 02:35	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 02:35	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 02:35	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 02:35	1
2-Butanone	ND		15		ug/L			02/08/17 02:35	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 02:35	1
Chloroform	ND		0.20		ug/L			02/08/17 02:35	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 02:35	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 02:35	1
Benzene	ND		0.20		ug/L			02/08/17 02:35	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 02:35	1
Trichloroethene	ND		0.20		ug/L			02/08/17 02:35	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 02:35	1
Dibromomethane	ND		0.20		ug/L			02/08/17 02:35	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 02:35	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 02:35	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 02:35	1
Toluene	ND		0.20		ug/L			02/08/17 02:35	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 02:35	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 02:35	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 02:35	1
2-Hexanone	ND		2.0		ug/L			02/08/17 02:35	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 02:35	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 02:35	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 02:35	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 02:35	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 02:35	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 02:35	1
o-Xylene	ND		0.50		ug/L			02/08/17 02:35	1
Styrene	ND		0.50		ug/L			02/08/17 02:35	1
Bromoform	ND		0.50		ug/L			02/08/17 02:35	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 02:35	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 02:35	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 02:35	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 02:35	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 02:35	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 02:35	1

Client Sample ID: 0117-01
Date Collected: 01/25/17 11:40
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*02/08/17 02:35*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*02/08/17 02:35*	*1*
Dibromofluoromethane (Surr)	*108*		*42 - 132*		*02/08/17 02:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*02/08/17 02:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*02/08/17 02:35*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**60**		1.1		mg/L		02/02/17 15:37	02/03/17 13:30	1
Iron	ND		0.30		mg/L		02/02/17 15:37	02/03/17 13:30	1
Magnesium	**42**		1.1		mg/L		02/02/17 15:37	02/03/17 13:30	1
Manganese	**0.14**		0.020		mg/L		02/02/17 15:37	02/03/17 13:30	1
Potassium	**6.3**		3.3		mg/L		02/02/17 15:37	02/03/17 13:30	1
Sodium	**26**		2.0		mg/L		02/02/17 15:37	02/03/17 13:30	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Arsenic	**0.0067**		0.0010		mg/L		02/02/17 15:37	02/03/17 15:01	1
Barium	**0.022**		0.0012		mg/L		02/02/17 15:37	02/03/17 15:01	1
Beryllium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Cadmium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Chromium	**0.00044**		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Cobalt	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Copper	ND		0.0020		mg/L		02/02/17 15:37	02/03/17 15:01	1
Lead	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Nickel	ND		0.0030		mg/L		02/02/17 15:37	02/03/17 15:01	1
Selenium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:01	1
Silver	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Thallium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:01	1
Vanadium	ND		0.0040		mg/L		02/02/17 15:37	02/03/17 15:01	1
Zinc	**0.11**		0.0070		mg/L		02/02/17 15:37	02/03/17 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 16:06	1
Chloride	**21**		0.90		mg/L			02/03/17 16:06	1
Sulfate	**20**		1.2		mg/L			02/03/17 16:06	1
Ammonia	ND	F1	0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:20	1
Total Organic Carbon	ND		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**280**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**280**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**380**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-97
Date Collected: 01/25/17 13:08
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 03:00	1
Vinyl chloride	**4.4**		0.020		ug/L			02/08/17 03:00	1
Bromomethane	ND		1.0		ug/L			02/08/17 03:00	1
Chloroethane	ND		0.50		ug/L			02/08/17 03:00	1
Trichlorofluoromethane	**68**		0.50		ug/L			02/08/17 03:00	1
1,1-Dichloroethene	**0.22**		0.10		ug/L			02/08/17 03:00	1
Methyl iodide	ND		0.50		ug/L			02/08/17 03:00	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 03:00	1
Acetone	ND		2.0		ug/L			02/08/17 03:00	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 03:00	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 03:00	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 03:00	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 03:00	1
1,1-Dichloroethane	**2.7**		0.20		ug/L			02/08/17 03:00	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 03:00	1
2-Butanone	ND		15		ug/L			02/08/17 03:00	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 03:00	1
Chloroform	ND		0.20		ug/L			02/08/17 03:00	1
1,1,1-Trichloroethane	**0.83**		0.20		ug/L			02/08/17 03:00	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 03:00	1
Benzene	ND		0.20		ug/L			02/08/17 03:00	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 03:00	1
Trichloroethene	ND		0.20		ug/L			02/08/17 03:00	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 03:00	1
Dibromomethane	ND		0.20		ug/L			02/08/17 03:00	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 03:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 03:00	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 03:00	1
Toluene	ND		0.20		ug/L			02/08/17 03:00	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 03:00	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 03:00	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 03:00	1
2-Hexanone	ND		2.0		ug/L			02/08/17 03:00	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 03:00	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 03:00	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 03:00	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 03:00	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 03:00	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 03:00	1
o-Xylene	ND		0.50		ug/L			02/08/17 03:00	1
Styrene	ND		0.50		ug/L			02/08/17 03:00	1
Bromoform	ND		0.50		ug/L			02/08/17 03:00	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 03:00	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 03:00	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 03:00	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 03:00	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 03:00	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 03:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-97
Date Collected: 01/25/17 13:08
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		75 - 125		02/08/17 03:00	1
Trifluorotoluene (Surr)	106		74 - 118		02/08/17 03:00	1
Dibromofluoromethane (Surr)	107		42 - 132		02/08/17 03:00	1
4-Bromofluorobenzene (Surr)	96		81 - 120		02/08/17 03:00	1
1,2-Dichloroethane-d4 (Surr)	104		46 - 150		02/08/17 03:00	1

Client Sample ID: 0117-96
Date Collected: 01/25/17 14:05
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 03:25	1
Vinyl chloride	**0.053**		0.020		ug/L			02/08/17 03:25	1
Bromomethane	ND		1.0		ug/L			02/08/17 03:25	1
Chloroethane	ND		0.50		ug/L			02/08/17 03:25	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 03:25	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 03:25	1
Methyl iodide	ND		0.50		ug/L			02/08/17 03:25	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 03:25	1
Acetone	ND		2.0		ug/L			02/08/17 03:25	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 03:25	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 03:25	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 03:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 03:25	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 03:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 03:25	1
2-Butanone	ND		15		ug/L			02/08/17 03:25	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 03:25	1
Chloroform	ND		0.20		ug/L			02/08/17 03:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 03:25	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 03:25	1
Benzene	ND		0.20		ug/L			02/08/17 03:25	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 03:25	1
Trichloroethene	ND		0.20		ug/L			02/08/17 03:25	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 03:25	1
Dibromomethane	ND		0.20		ug/L			02/08/17 03:25	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 03:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 03:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 03:25	1
Toluene	ND		0.20		ug/L			02/08/17 03:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 03:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 03:25	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 03:25	1
2-Hexanone	ND		2.0		ug/L			02/08/17 03:25	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 03:25	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 03:25	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 03:25	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 03:25	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 03:25	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 03:25	1
o-Xylene	ND		0.50		ug/L			02/08/17 03:25	1
Styrene	ND		0.50		ug/L			02/08/17 03:25	1
Bromoform	ND		0.50		ug/L			02/08/17 03:25	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 03:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 03:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 03:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 03:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 03:25	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 03:25	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-96
Date Collected: 01/25/17 14:05
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		75 - 125		02/08/17 03:25	1
Trifluorotoluene (Surr)	105		74 - 118		02/08/17 03:25	1
Dibromofluoromethane (Surr)	106		42 - 132		02/08/17 03:25	1
4-Bromofluorobenzene (Surr)	97		81 - 120		02/08/17 03:25	1
1,2-Dichloroethane-d4 (Surr)	104		46 - 150		02/08/17 03:25	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-05
Date Collected: 01/25/17 14:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 03:51	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 03:51	1
Bromomethane	ND		1.0		ug/L			02/08/17 03:51	1
Chloroethane	ND		0.50		ug/L			02/08/17 03:51	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 03:51	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 03:51	1
Methyl iodide	ND		0.50		ug/L			02/08/17 03:51	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 03:51	1
Acetone	ND		2.0		ug/L			02/08/17 03:51	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 03:51	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 03:51	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 03:51	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 03:51	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 03:51	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 03:51	1
2-Butanone	ND		15		ug/L			02/08/17 03:51	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 03:51	1
Chloroform	ND		0.20		ug/L			02/08/17 03:51	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 03:51	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 03:51	1
Benzene	ND		0.20		ug/L			02/08/17 03:51	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 03:51	1
Trichloroethene	ND		0.20		ug/L			02/08/17 03:51	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 03:51	1
Dibromomethane	ND		0.20		ug/L			02/08/17 03:51	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 03:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 03:51	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 03:51	1
Toluene	ND		0.20		ug/L			02/08/17 03:51	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 03:51	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 03:51	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 03:51	1
2-Hexanone	ND		2.0		ug/L			02/08/17 03:51	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 03:51	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 03:51	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 03:51	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 03:51	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 03:51	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 03:51	1
o-Xylene	ND		0.50		ug/L			02/08/17 03:51	1
Styrene	ND		0.50		ug/L			02/08/17 03:51	1
Bromoform	ND		0.50		ug/L			02/08/17 03:51	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 03:51	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 03:51	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 03:51	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 03:51	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 03:51	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 03:51	1

Client Sample ID: 0117-05
Date Collected: 01/25/17 14:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/08/17 03:51*	*1*
Trifluorotoluene (Surr)	*114*		*74 - 118*		*02/08/17 03:51*	*1*
Dibromofluoromethane (Surr)	*108*		*42 - 132*		*02/08/17 03:51*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/08/17 03:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*02/08/17 03:51*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**42**		1.1		mg/L		02/02/17 15:37	02/03/17 13:55	1
Iron	ND		0.30		mg/L		02/02/17 15:37	02/03/17 13:55	1
Magnesium	**32**		1.1		mg/L		02/02/17 15:37	02/03/17 13:55	1
Manganese	**0.097**		0.020		mg/L		02/02/17 15:37	02/03/17 13:55	1
Potassium	**11**		3.3		mg/L		02/02/17 15:37	02/03/17 13:55	1
Sodium	**21**		2.0		mg/L		02/02/17 15:37	02/03/17 13:55	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Arsenic	**0.017**		0.0010		mg/L		02/02/17 15:37	02/03/17 15:05	1
Barium	**0.041**		0.0012		mg/L		02/02/17 15:37	02/03/17 15:05	1
Beryllium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Cadmium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Chromium	**0.0014**		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Cobalt	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Copper	**0.014**		0.0020		mg/L		02/02/17 15:37	02/03/17 15:05	1
Lead	**0.0023**		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Nickel	ND		0.0030		mg/L		02/02/17 15:37	02/03/17 15:05	1
Selenium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:05	1
Silver	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Thallium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:05	1
Vanadium	ND		0.0040		mg/L		02/02/17 15:37	02/03/17 15:05	1
Zinc	**0.59**		0.0070		mg/L		02/02/17 15:37	02/03/17 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.20		mg/L			02/06/17 14:24	1
Chloride	**34**	**F1**	0.90		mg/L			02/06/17 14:24	1
Sulfate	**7.1**	**F1**	1.2		mg/L			02/06/17 14:24	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:22	1
Total Organic Carbon	ND		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**210**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**210**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**280**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-10
Date Collected: 01/25/17 16:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 04:16	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 04:16	1
Bromomethane	ND		1.0		ug/L			02/08/17 04:16	1
Chloroethane	ND		0.50		ug/L			02/08/17 04:16	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 04:16	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 04:16	1
Methyl iodide	ND		0.50		ug/L			02/08/17 04:16	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 04:16	1
Acetone	ND		2.0		ug/L			02/08/17 04:16	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 04:16	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 04:16	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 04:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 04:16	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 04:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 04:16	1
2-Butanone	ND		15		ug/L			02/08/17 04:16	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 04:16	1
Chloroform	ND		0.20		ug/L			02/08/17 04:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 04:16	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 04:16	1
Benzene	ND		0.20		ug/L			02/08/17 04:16	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 04:16	1
Trichloroethene	ND		0.20		ug/L			02/08/17 04:16	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 04:16	1
Dibromomethane	ND		0.20		ug/L			02/08/17 04:16	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 04:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 04:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 04:16	1
Toluene	ND		0.20		ug/L			02/08/17 04:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 04:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 04:16	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 04:16	1
2-Hexanone	ND		2.0		ug/L			02/08/17 04:16	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 04:16	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 04:16	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 04:16	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 04:16	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 04:16	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 04:16	1
o-Xylene	ND		0.50		ug/L			02/08/17 04:16	1
Styrene	ND		0.50		ug/L			02/08/17 04:16	1
Bromoform	ND		0.50		ug/L			02/08/17 04:16	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 04:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 04:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 04:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 04:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 04:16	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 04:16	1

Client Sample ID: 0117-10
Date Collected: 01/25/17 16:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/08/17 04:16*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*02/08/17 04:16*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/08/17 04:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/08/17 04:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/08/17 04:16*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		02/02/17 15:37	02/03/17 13:58	1
Iron	ND		0.30		mg/L		02/02/17 15:37	02/03/17 13:58	1
Magnesium	**55**		1.1		mg/L		02/02/17 15:37	02/03/17 13:58	1
Manganese	**0.16**		0.020		mg/L		02/02/17 15:37	02/03/17 13:58	1
Potassium	**7.4**		3.3		mg/L		02/02/17 15:37	02/03/17 13:58	1
Sodium	**37**		2.0		mg/L		02/02/17 15:37	02/03/17 13:58	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Arsenic	**0.0086**		0.0010		mg/L		02/02/17 15:37	02/03/17 15:10	1
Barium	**0.040**		0.0012		mg/L		02/02/17 15:37	02/03/17 15:10	1
Beryllium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Cadmium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Chromium	**0.00057**		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Cobalt	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Copper	ND		0.0020		mg/L		02/02/17 15:37	02/03/17 15:10	1
Lead	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Nickel	ND		0.0030		mg/L		02/02/17 15:37	02/03/17 15:10	1
Selenium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:10	1
Silver	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Thallium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:10	1
Vanadium	ND		0.0040		mg/L		02/02/17 15:37	02/03/17 15:10	1
Zinc	ND		0.0070		mg/L		02/02/17 15:37	02/03/17 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 15:10	1
Chloride	**72**		0.90		mg/L			02/06/17 15:10	1
Sulfate	**28**		1.2		mg/L			02/06/17 15:10	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:23	1
Total Organic Carbon	**2.1**		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**470**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	**55**		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-11
Date Collected: 01/25/17 16:48
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 04:41	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 04:41	1
Bromomethane	ND		1.0		ug/L			02/08/17 04:41	1
Chloroethane	ND		0.50		ug/L			02/08/17 04:41	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 04:41	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 04:41	1
Methyl iodide	ND		0.50		ug/L			02/08/17 04:41	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 04:41	1
Acetone	ND		2.0		ug/L			02/08/17 04:41	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 04:41	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 04:41	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 04:41	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 04:41	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 04:41	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 04:41	1
2-Butanone	ND		15		ug/L			02/08/17 04:41	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 04:41	1
Chloroform	ND		0.20		ug/L			02/08/17 04:41	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 04:41	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 04:41	1
Benzene	ND		0.20		ug/L			02/08/17 04:41	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 04:41	1
Trichloroethene	ND		0.20		ug/L			02/08/17 04:41	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 04:41	1
Dibromomethane	ND		0.20		ug/L			02/08/17 04:41	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 04:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 04:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 04:41	1
Toluene	ND		0.20		ug/L			02/08/17 04:41	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 04:41	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 04:41	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 04:41	1
2-Hexanone	ND		2.0		ug/L			02/08/17 04:41	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 04:41	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 04:41	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 04:41	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 04:41	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 04:41	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 04:41	1
o-Xylene	ND		0.50		ug/L			02/08/17 04:41	1
Styrene	ND		0.50		ug/L			02/08/17 04:41	1
Bromoform	ND		0.50		ug/L			02/08/17 04:41	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 04:41	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 04:41	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 04:41	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 04:41	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 04:41	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 04:41	1

Client Sample ID: 0117-11
Date Collected: 01/25/17 16:48
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-8
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*75 - 125*		*02/08/17 04:41*	*1*
Trifluorotoluene (Surr)	*105*		*74 - 118*		*02/08/17 04:41*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/08/17 04:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*81 - 120*		*02/08/17 04:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/08/17 04:41*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**77**		1.1		mg/L		02/02/17 15:37	02/03/17 14:01	1
Iron	ND		0.30		mg/L		02/02/17 15:37	02/03/17 14:01	1
Magnesium	**53**		1.1		mg/L		02/02/17 15:37	02/03/17 14:01	1
Manganese	**0.20**		0.020		mg/L		02/02/17 15:37	02/03/17 14:01	1
Potassium	**6.4**		3.3		mg/L		02/02/17 15:37	02/03/17 14:01	1
Sodium	**35**		2.0		mg/L		02/02/17 15:37	02/03/17 14:01	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Arsenic	**0.0066**		0.0010		mg/L		02/02/17 15:37	02/03/17 15:14	1
Barium	**0.031**		0.0012		mg/L		02/02/17 15:37	02/03/17 15:14	1
Beryllium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Cadmium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Chromium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Cobalt	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Copper	ND		0.0020		mg/L		02/02/17 15:37	02/03/17 15:14	1
Lead	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Nickel	ND		0.0030		mg/L		02/02/17 15:37	02/03/17 15:14	1
Selenium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:14	1
Silver	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Thallium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 15:14	1
Vanadium	ND		0.0040		mg/L		02/02/17 15:37	02/03/17 15:14	1
Zinc	ND		0.0070		mg/L		02/02/17 15:37	02/03/17 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 15:26	1
Chloride	**58**		0.90		mg/L			02/06/17 15:26	1
Sulfate	**27**		1.2		mg/L			02/06/17 15:26	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:24	1
Total Organic Carbon	**2.0**		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**480**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-03
Date Collected: 01/25/17 10:25
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 05:07	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 05:07	1
Bromomethane	ND		1.0		ug/L			02/08/17 05:07	1
Chloroethane	ND		0.50		ug/L			02/08/17 05:07	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 05:07	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 05:07	1
Methyl iodide	ND		0.50		ug/L			02/08/17 05:07	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 05:07	1
Acetone	ND		2.0		ug/L			02/08/17 05:07	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 05:07	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 05:07	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 05:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 05:07	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 05:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 05:07	1
2-Butanone	ND		15		ug/L			02/08/17 05:07	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 05:07	1
Chloroform	ND		0.20		ug/L			02/08/17 05:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 05:07	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 05:07	1
Benzene	ND		0.20		ug/L			02/08/17 05:07	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 05:07	1
Trichloroethene	ND		0.20		ug/L			02/08/17 05:07	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 05:07	1
Dibromomethane	ND		0.20		ug/L			02/08/17 05:07	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 05:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 05:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 05:07	1
Toluene	ND		0.20		ug/L			02/08/17 05:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 05:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 05:07	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 05:07	1
2-Hexanone	ND		2.0		ug/L			02/08/17 05:07	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 05:07	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 05:07	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 05:07	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 05:07	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 05:07	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 05:07	1
o-Xylene	ND		0.50		ug/L			02/08/17 05:07	1
Styrene	ND		0.50		ug/L			02/08/17 05:07	1
Bromoform	ND		0.50		ug/L			02/08/17 05:07	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 05:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 05:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 05:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 05:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 05:07	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 05:07	1

Client Sample ID: 0117-03
Date Collected: 01/25/17 10:25
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*02/08/17 05:07*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*02/08/17 05:07*	*1*
Dibromofluoromethane (Surr)	*106*		*42 - 132*		*02/08/17 05:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*81 - 120*		*02/08/17 05:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*02/08/17 05:07*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		02/02/17 15:37	02/03/17 14:05	1
Iron	ND		0.30		mg/L		02/02/17 15:37	02/03/17 14:05	1
Magnesium	**54**		1.1		mg/L		02/02/17 15:37	02/03/17 14:05	1
Manganese	ND		0.020		mg/L		02/02/17 15:37	02/03/17 14:05	1
Potassium	**6.0**		3.3		mg/L		02/02/17 15:37	02/03/17 14:05	1
Sodium	**31**		2.0		mg/L		02/02/17 15:37	02/03/17 14:05	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Arsenic	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:43	5
Barium	**0.051**		0.0060		mg/L		02/08/17 09:06	02/09/17 14:43	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Chromium	**0.0067**		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Copper	ND		0.010		mg/L		02/08/17 09:06	02/09/17 14:43	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 14:43	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:43	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:43	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 14:43	5
Zinc	ND		0.035		mg/L		02/08/17 09:06	02/09/17 14:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 15:41	1
Chloride	**44**		0.90		mg/L			02/06/17 15:41	1
Sulfate	**40**		1.2		mg/L			02/06/17 15:41	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**1.0**		0.050		mg/L			02/08/17 13:25	1
Total Organic Carbon	**1.1**		1.0		mg/L			01/31/17 20:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**520**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**520**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**650**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	**98**		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-04
Date Collected: 01/25/17 11:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 05:32	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 05:32	1
Bromomethane	ND		1.0		ug/L			02/08/17 05:32	1
Chloroethane	ND		0.50		ug/L			02/08/17 05:32	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 05:32	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 05:32	1
Methyl iodide	ND		0.50		ug/L			02/08/17 05:32	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 05:32	1
Acetone	ND		2.0		ug/L			02/08/17 05:32	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 05:32	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 05:32	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 05:32	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 05:32	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 05:32	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 05:32	1
2-Butanone	ND		15		ug/L			02/08/17 05:32	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 05:32	1
Chloroform	ND		0.20		ug/L			02/08/17 05:32	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 05:32	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 05:32	1
Benzene	ND		0.20		ug/L			02/08/17 05:32	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 05:32	1
Trichloroethene	ND		0.20		ug/L			02/08/17 05:32	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 05:32	1
Dibromomethane	ND		0.20		ug/L			02/08/17 05:32	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 05:32	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 05:32	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 05:32	1
Toluene	ND		0.20		ug/L			02/08/17 05:32	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 05:32	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 05:32	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 05:32	1
2-Hexanone	ND		2.0		ug/L			02/08/17 05:32	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 05:32	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 05:32	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 05:32	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 05:32	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 05:32	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 05:32	1
o-Xylene	ND		0.50		ug/L			02/08/17 05:32	1
Styrene	ND		0.50		ug/L			02/08/17 05:32	1
Bromoform	ND		0.50		ug/L			02/08/17 05:32	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 05:32	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 05:32	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 05:32	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 05:32	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 05:32	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 05:32	1

Client Sample ID: 0117-04
Date Collected: 01/25/17 11:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*02/08/17 05:32*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*02/08/17 05:32*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/08/17 05:32*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/08/17 05:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*02/08/17 05:32*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**36**		1.1		mg/L		02/08/17 09:06	02/08/17 16:12	1
Iron	ND		0.30		mg/L		02/08/17 09:06	02/08/17 16:12	1
Magnesium	**24**		1.1		mg/L		02/08/17 09:06	02/08/17 16:12	1
Manganese	**0.060**		0.020		mg/L		02/08/17 09:06	02/08/17 16:12	1
Potassium	**11**		3.3		mg/L		02/08/17 09:06	02/08/17 16:12	1
Sodium	**38**		2.0		mg/L		02/08/17 09:06	02/08/17 16:12	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Arsenic	**0.016**		0.0010		mg/L		02/03/17 08:56	02/03/17 15:59	1
Barium	**0.031**		0.0012		mg/L		02/03/17 08:56	02/03/17 15:59	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Chromium	**0.00055**		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Cobalt	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Copper	ND		0.0020		mg/L		02/03/17 08:56	02/03/17 15:59	1
Lead	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Nickel	ND		0.0030		mg/L		02/03/17 08:56	02/03/17 15:59	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:59	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:59	1
Vanadium	ND		0.0040		mg/L		02/03/17 08:56	02/03/17 15:59	1
Zinc	ND		0.0070		mg/L		02/03/17 08:56	02/03/17 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 15:57	1
Chloride	**30**		0.90		mg/L			02/06/17 15:57	1
Sulfate	**11**		1.2		mg/L			02/06/17 15:57	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:26	1
Total Organic Carbon	**3.4**		1.0		mg/L			02/07/17 20:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**320**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-23
Date Collected: 01/25/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 05:57	1
Vinyl chloride	**0.13**		0.020		ug/L			02/08/17 05:57	1
Bromomethane	ND		1.0		ug/L			02/08/17 05:57	1
Chloroethane	ND		0.50		ug/L			02/08/17 05:57	1
Trichlorofluoromethane	**1.6**		0.50		ug/L			02/08/17 05:57	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 05:57	1
Methyl iodide	ND		0.50		ug/L			02/08/17 05:57	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 05:57	1
Acetone	ND		2.0		ug/L			02/08/17 05:57	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 05:57	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 05:57	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 05:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 05:57	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 05:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 05:57	1
2-Butanone	ND		15		ug/L			02/08/17 05:57	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 05:57	1
Chloroform	ND		0.20		ug/L			02/08/17 05:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 05:57	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 05:57	1
Benzene	ND		0.20		ug/L			02/08/17 05:57	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 05:57	1
Trichloroethene	ND		0.20		ug/L			02/08/17 05:57	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 05:57	1
Dibromomethane	ND		0.20		ug/L			02/08/17 05:57	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 05:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 05:57	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 05:57	1
Toluene	ND		0.20		ug/L			02/08/17 05:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 05:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 05:57	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 05:57	1
2-Hexanone	ND		2.0		ug/L			02/08/17 05:57	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 05:57	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 05:57	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 05:57	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 05:57	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 05:57	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 05:57	1
o-Xylene	ND		0.50		ug/L			02/08/17 05:57	1
Styrene	ND		0.50		ug/L			02/08/17 05:57	1
Bromoform	ND		0.50		ug/L			02/08/17 05:57	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 05:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 05:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 05:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 05:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 05:57	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 05:57	1

Client Sample ID: 0117-23
Date Collected: 01/25/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/08/17 05:57*	*1*
Trifluorotoluene (Surr)	*114*		*74 - 118*		*02/08/17 05:57*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/08/17 05:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 120*		*02/08/17 05:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/08/17 05:57*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		02/03/17 08:56	02/04/17 00:13	1
Iron	ND		0.30		mg/L		02/03/17 08:56	02/04/17 00:13	1
Magnesium	**63**		1.1		mg/L		02/03/17 08:56	02/04/17 00:13	1
Manganese	**0.36**		0.020		mg/L		02/03/17 08:56	02/04/17 00:13	1
Potassium	**7.2**		3.3		mg/L		02/03/17 08:56	02/04/17 00:13	1
Sodium	**31**		2.0		mg/L		02/03/17 08:56	02/04/17 00:13	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00042**		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Arsenic	**0.0032**		0.0010		mg/L		02/03/17 08:56	02/03/17 15:54	1
Barium	**0.054**		0.0012		mg/L		02/03/17 08:56	02/03/17 15:54	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Chromium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Cobalt	**0.00089**		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Copper	ND		0.0020		mg/L		02/03/17 08:56	02/03/17 15:54	1
Lead	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Nickel	**0.0049**		0.0030		mg/L		02/03/17 08:56	02/03/17 15:54	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:54	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:54	1
Vanadium	**0.0041**		0.0040		mg/L		02/03/17 08:56	02/03/17 15:54	1
Zinc	ND		0.0070		mg/L		02/03/17 08:56	02/03/17 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 16:12	1
Chloride	**22**		0.90		mg/L			02/06/17 16:12	1
Sulfate	**63**		1.2		mg/L			02/06/17 16:12	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**8.4**		0.25		mg/L			02/08/17 13:27	5
Total Organic Carbon	**1.1**		1.0		mg/L			02/07/17 20:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**610**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**610**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**780**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client Sample ID: 0117-22
Date Collected: 01/25/17 13:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 06:23	1
Vinyl chloride	**19**		0.020		ug/L			02/08/17 06:23	1
Bromomethane	ND		1.0		ug/L			02/08/17 06:23	1
Chloroethane	ND		0.50		ug/L			02/08/17 06:23	1
Trichlorofluoromethane	**1.8**		0.50		ug/L			02/08/17 06:23	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 06:23	1
Methyl iodide	ND		0.50		ug/L			02/08/17 06:23	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 06:23	1
Acetone	ND		2.0		ug/L			02/08/17 06:23	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 06:23	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 06:23	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 06:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 06:23	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 06:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 06:23	1
2-Butanone	ND		15		ug/L			02/08/17 06:23	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 06:23	1
Chloroform	ND		0.20		ug/L			02/08/17 06:23	1
1,1,1-Trichloroethane	**0.33**		0.20		ug/L			02/08/17 06:23	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 06:23	1
Benzene	ND		0.20		ug/L			02/08/17 06:23	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 06:23	1
Trichloroethene	ND		0.20		ug/L			02/08/17 06:23	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 06:23	1
Dibromomethane	ND		0.20		ug/L			02/08/17 06:23	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 06:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 06:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 06:23	1
Toluene	ND		0.20		ug/L			02/08/17 06:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 06:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 06:23	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 06:23	1
2-Hexanone	ND		2.0		ug/L			02/08/17 06:23	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 06:23	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 06:23	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 06:23	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 06:23	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 06:23	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 06:23	1
o-Xylene	ND		0.50		ug/L			02/08/17 06:23	1
Styrene	ND		0.50		ug/L			02/08/17 06:23	1
Bromoform	ND		0.50		ug/L			02/08/17 06:23	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 06:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 06:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 06:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 06:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 06:23	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 06:23	1

Client Sample ID: 0117-22

Date Collected: 01/25/17 13:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*02/08/17 06:23*	*1*
Trifluorotoluene (Surr)	*109*		*74 - 118*		*02/08/17 06:23*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/08/17 06:23*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/08/17 06:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*02/08/17 06:23*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200**		1.1		mg/L		02/03/17 08:56	02/04/17 00:17	1
Iron	ND		0.30		mg/L		02/03/17 08:56	02/04/17 00:17	1
Magnesium	**97**		1.1		mg/L		02/03/17 08:56	02/04/17 00:17	1
Manganese	**0.061**		0.020		mg/L		02/03/17 08:56	02/04/17 00:17	1
Potassium	**8.9**		3.3		mg/L		02/03/17 08:56	02/04/17 00:17	1
Sodium	**38**		2.0		mg/L		02/03/17 08:56	02/04/17 00:17	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Arsenic	**0.0039**		0.0010		mg/L		02/03/17 08:56	02/03/17 16:39	1
Barium	**0.044**		0.0012		mg/L		02/03/17 08:56	02/03/17 16:39	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Chromium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Cobalt	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Copper	ND		0.0020		mg/L		02/03/17 08:56	02/03/17 16:39	1
Lead	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Nickel	**0.0069**		0.0030		mg/L		02/03/17 08:56	02/03/17 16:39	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:39	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:39	1
Vanadium	**0.0079**		0.0040		mg/L		02/03/17 08:56	02/03/17 16:39	1
Zinc	ND		0.0070		mg/L		02/03/17 08:56	02/03/17 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 16:27	1
Chloride	**26**		0.90		mg/L			02/06/17 16:27	1
Sulfate	**67**		1.2		mg/L			02/06/17 16:27	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**4.5**		0.25		mg/L			02/08/17 13:34	5
Total Organic Carbon	**2.0**		1.0		mg/L			02/07/17 20:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**850**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**850**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**990**		20	20	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-24
Date Collected: 01/25/17 14:35
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 06:48	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 06:48	1
Bromomethane	ND		1.0		ug/L			02/08/17 06:48	1
Chloroethane	ND		0.50		ug/L			02/08/17 06:48	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 06:48	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 06:48	1
Methyl iodide	ND		0.50		ug/L			02/08/17 06:48	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 06:48	1
Acetone	ND		2.0		ug/L			02/08/17 06:48	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 06:48	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 06:48	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 06:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 06:48	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 06:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 06:48	1
2-Butanone	ND		15		ug/L			02/08/17 06:48	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 06:48	1
Chloroform	ND		0.20		ug/L			02/08/17 06:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 06:48	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 06:48	1
Benzene	ND		0.20		ug/L			02/08/17 06:48	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 06:48	1
Trichloroethene	ND		0.20		ug/L			02/08/17 06:48	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 06:48	1
Dibromomethane	ND		0.20		ug/L			02/08/17 06:48	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 06:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 06:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 06:48	1
Toluene	ND		0.20		ug/L			02/08/17 06:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 06:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 06:48	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 06:48	1
2-Hexanone	ND		2.0		ug/L			02/08/17 06:48	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 06:48	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 06:48	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 06:48	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 06:48	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 06:48	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 06:48	1
o-Xylene	ND		0.50		ug/L			02/08/17 06:48	1
Styrene	ND		0.50		ug/L			02/08/17 06:48	1
Bromoform	ND		0.50		ug/L			02/08/17 06:48	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 06:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 06:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 06:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 06:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 06:48	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 06:48	1

Client Sample ID: 0117-24
Date Collected: 01/25/17 14:35
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*75 - 125*		*02/08/17 06:48*	*1*
Trifluorotoluene (Surr)	*115*		*74 - 118*		*02/08/17 06:48*	*1*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*02/08/17 06:48*	*1*
4-Bromofluorobenzene (Surr)	*93*		*81 - 120*		*02/08/17 06:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*02/08/17 06:48*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**37**		1.1		mg/L		02/03/17 08:56	02/04/17 00:20	1
Iron	ND		0.30		mg/L		02/03/17 08:56	02/04/17 00:20	1
Magnesium	**52**		1.1		mg/L		02/03/17 08:56	02/04/17 00:20	1
Manganese	**0.022**		0.020		mg/L		02/03/17 08:56	02/04/17 00:20	1
Potassium	**9.8**		3.3		mg/L		02/03/17 08:56	02/04/17 00:20	1
Sodium	**27**		2.0		mg/L		02/03/17 08:56	02/04/17 00:20	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Arsenic	**0.0053**		0.0010		mg/L		02/03/17 08:56	02/03/17 16:44	1
Barium	**0.034**		0.0012		mg/L		02/03/17 08:56	02/03/17 16:44	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Chromium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Cobalt	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Copper	**0.0034**		0.0020		mg/L		02/03/17 08:56	02/03/17 16:44	1
Lead	**0.0027**		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Nickel	ND		0.0030		mg/L		02/03/17 08:56	02/03/17 16:44	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:44	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:44	1
Vanadium	ND		0.0040		mg/L		02/03/17 08:56	02/03/17 16:44	1
Zinc	**0.29**		0.0070		mg/L		02/03/17 08:56	02/03/17 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 16:43	1
Chloride	**43**		0.90		mg/L			02/06/17 16:43	1
Sulfate	**13**		1.2		mg/L			02/06/17 16:43	1
Ammonia	**0.28**		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**0.22**		0.050		mg/L			02/08/17 13:39	1
Total Organic Carbon	**1.5**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**390**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-12
Date Collected: 01/25/17 15:30
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 07:13	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 07:13	1
Bromomethane	ND		1.0		ug/L			02/08/17 07:13	1
Chloroethane	ND		0.50		ug/L			02/08/17 07:13	1
Trichlorofluoromethane	**5.3**		0.50		ug/L			02/08/17 07:13	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 07:13	1
Methyl iodide	ND		0.50		ug/L			02/08/17 07:13	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 07:13	1
Acetone	ND		2.0		ug/L			02/08/17 07:13	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 07:13	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 07:13	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 07:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 07:13	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 07:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 07:13	1
2-Butanone	ND		15		ug/L			02/08/17 07:13	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 07:13	1
Chloroform	ND		0.20		ug/L			02/08/17 07:13	1
1,1,1-Trichloroethane	**0.52**		0.20		ug/L			02/08/17 07:13	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 07:13	1
Benzene	ND		0.20		ug/L			02/08/17 07:13	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 07:13	1
Trichloroethene	ND		0.20		ug/L			02/08/17 07:13	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 07:13	1
Dibromomethane	ND		0.20		ug/L			02/08/17 07:13	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 07:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 07:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 07:13	1
Toluene	ND		0.20		ug/L			02/08/17 07:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 07:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 07:13	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 07:13	1
2-Hexanone	ND		2.0		ug/L			02/08/17 07:13	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 07:13	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 07:13	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 07:13	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 07:13	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 07:13	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 07:13	1
o-Xylene	ND		0.50		ug/L			02/08/17 07:13	1
Styrene	ND		0.50		ug/L			02/08/17 07:13	1
Bromoform	ND		0.50		ug/L			02/08/17 07:13	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 07:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 07:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 07:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 07:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 07:13	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 07:13	1

Client Sample ID: 0117-12

Date Collected: 01/25/17 15:30
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-14

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*75 - 125*		*02/08/17 07:13*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*02/08/17 07:13*	*1*
Dibromofluoromethane (Surr)	*108*		*42 - 132*		*02/08/17 07:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/08/17 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*02/08/17 07:13*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		02/03/17 08:56	02/04/17 00:23	1
Iron	ND		0.30		mg/L		02/03/17 08:56	02/04/17 00:23	1
Magnesium	**79**		1.1		mg/L		02/03/17 08:56	02/04/17 00:23	1
Manganese	**0.036**		0.020		mg/L		02/03/17 08:56	02/04/17 00:23	1
Potassium	**6.9**		3.3		mg/L		02/03/17 08:56	02/04/17 00:23	1
Sodium	**29**		2.0		mg/L		02/03/17 08:56	02/04/17 00:23	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Arsenic	**0.0036**		0.0010		mg/L		02/03/17 08:56	02/03/17 16:48	1
Barium	**0.035**		0.0012		mg/L		02/03/17 08:56	02/03/17 16:48	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Chromium	**0.0011**		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Cobalt	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Copper	ND		0.0020		mg/L		02/03/17 08:56	02/03/17 16:48	1
Lead	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Nickel	**0.0063**		0.0030		mg/L		02/03/17 08:56	02/03/17 16:48	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:48	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:48	1
Vanadium	**0.0058**		0.0040		mg/L		02/03/17 08:56	02/03/17 16:48	1
Zinc	ND		0.0070		mg/L		02/03/17 08:56	02/03/17 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 17:29	1
Chloride	**51**		0.90		mg/L			02/06/17 17:29	1
Sulfate	**89**		12		mg/L			02/07/17 09:36	10
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**46**		2.0		mg/L			02/10/17 12:53	40
Total Organic Carbon	**1.9**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**820**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-25
Date Collected: 01/25/17 16:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 07:39	1
Vinyl chloride	**0.19**		0.020		ug/L			02/08/17 07:39	1
Bromomethane	ND		1.0		ug/L			02/08/17 07:39	1
Chloroethane	ND		0.50		ug/L			02/08/17 07:39	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 07:39	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 07:39	1
Methyl iodide	ND		0.50		ug/L			02/08/17 07:39	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 07:39	1
Acetone	ND		2.0		ug/L			02/08/17 07:39	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 07:39	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 07:39	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 07:39	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 07:39	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 07:39	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 07:39	1
2-Butanone	ND		15		ug/L			02/08/17 07:39	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 07:39	1
Chloroform	ND		0.20		ug/L			02/08/17 07:39	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 07:39	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 07:39	1
Benzene	ND		0.20		ug/L			02/08/17 07:39	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 07:39	1
Trichloroethene	ND		0.20		ug/L			02/08/17 07:39	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 07:39	1
Dibromomethane	ND		0.20		ug/L			02/08/17 07:39	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 07:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 07:39	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 07:39	1
Toluene	ND		0.20		ug/L			02/08/17 07:39	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 07:39	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 07:39	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 07:39	1
2-Hexanone	ND		2.0		ug/L			02/08/17 07:39	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 07:39	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 07:39	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 07:39	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 07:39	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 07:39	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 07:39	1
o-Xylene	ND		0.50		ug/L			02/08/17 07:39	1
Styrene	ND		0.50		ug/L			02/08/17 07:39	1
Bromoform	ND		0.50		ug/L			02/08/17 07:39	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/08/17 07:39	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 07:39	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 07:39	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 07:39	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 07:39	1
1,2-Dibromo-3-Chloropropane	ND	*	2.0		ug/L			02/08/17 07:39	1

Client Sample ID: 0117-25

Date Collected: 01/25/17 16:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/08/17 07:39*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*02/08/17 07:39*	*1*
Dibromofluoromethane (Surr)	*105*		*42 - 132*		*02/08/17 07:39*	*1*
4-Bromofluorobenzene (Surr)	*94*		*81 - 120*		*02/08/17 07:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/08/17 07:39*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		02/03/17 09:15	02/03/17 22:48	1
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 22:48	1
Magnesium	**110**		1.1		mg/L		02/03/17 09:15	02/03/17 22:48	1
Manganese	**0.045**		0.020		mg/L		02/03/17 09:15	02/03/17 22:48	1
Potassium	**8.8**		3.3		mg/L		02/03/17 09:15	02/03/17 22:48	1
Sodium	**44**		2.0		mg/L		02/03/17 09:15	02/03/17 22:48	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Arsenic	**0.0061**		0.0010		mg/L		02/03/17 08:56	02/03/17 16:53	1
Barium	**0.042**		0.0012		mg/L		02/03/17 08:56	02/03/17 16:53	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Chromium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Cobalt	**0.00088**		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Copper	ND		0.0020		mg/L		02/03/17 08:56	02/03/17 16:53	1
Lead	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Nickel	**0.0059**		0.0030		mg/L		02/03/17 08:56	02/03/17 16:53	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:53	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 16:53	1
Vanadium	**0.0074**		0.0040		mg/L		02/03/17 08:56	02/03/17 16:53	1
Zinc	ND		0.0070		mg/L		02/03/17 08:56	02/03/17 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 17:44	1
Chloride	**70**		0.90		mg/L			02/06/17 17:44	1
Sulfate	**60**		1.2		mg/L			02/06/17 17:44	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**0.071**		0.050		mg/L			02/08/17 13:41	1
Total Organic Carbon	**1.5**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**800**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**800**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**980**		20	20	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-09
Date Collected: 01/26/17 09:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 17:54	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 17:54	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 17:54	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 17:54	1
Trichlorofluoromethane	ND	H	0.50		ug/L			02/14/17 17:54	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 17:54	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 17:54	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 17:54	1
Acetone	ND	H	2.0		ug/L			02/14/17 17:54	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 17:54	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 17:54	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 17:54	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 17:54	1
1,1-Dichloroethane	ND	H	0.20		ug/L			02/14/17 17:54	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 17:54	1
2-Butanone	ND	H	15		ug/L			02/14/17 17:54	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 17:54	1
Chloroform	ND	H	0.20		ug/L			02/14/17 17:54	1
1,1,1-Trichloroethane	ND	H	0.20		ug/L			02/14/17 17:54	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 17:54	1
Benzene	ND	H	0.20		ug/L			02/14/17 17:54	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 17:54	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 17:54	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 17:54	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 17:54	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 17:54	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 17:54	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 17:54	1
Toluene	ND	H	0.20		ug/L			02/14/17 17:54	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 17:54	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 17:54	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 17:54	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 17:54	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 17:54	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 17:54	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 17:54	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 17:54	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 17:54	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 17:54	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 17:54	1
Styrene	ND	H	0.50		ug/L			02/14/17 17:54	1
Bromoform	ND	H	0.50		ug/L			02/14/17 17:54	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 17:54	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 17:54	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 17:54	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 17:54	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 17:54	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 17:54	1

Client Sample ID: 0117-09
Date Collected: 01/26/17 09:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-16
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/14/17 17:54*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*02/14/17 17:54*	*1*
Dibromofluoromethane (Surr)	*98*		*42 - 132*		*02/14/17 17:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*02/14/17 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/14/17 17:54*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**62**		1.1		mg/L		02/03/17 09:15	02/03/17 23:13	1
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 23:13	1
Magnesium	**39**		1.1		mg/L		02/03/17 09:15	02/03/17 23:13	1
Manganese	ND		0.020		mg/L		02/03/17 09:15	02/03/17 23:13	1
Potassium	**6.5**		3.3		mg/L		02/03/17 09:15	02/03/17 23:13	1
Sodium	**25**		2.0		mg/L		02/03/17 09:15	02/03/17 23:13	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Arsenic	**0.0041**		0.0010		mg/L		02/03/17 09:15	02/03/17 16:57	1
Barium	**0.025**		0.0012		mg/L		02/03/17 09:15	02/03/17 16:57	1
Beryllium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Cadmium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Chromium	**0.00043**		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Cobalt	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Copper	ND		0.0020		mg/L		02/03/17 09:15	02/03/17 16:57	1
Lead	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Nickel	ND		0.0030		mg/L		02/03/17 09:15	02/03/17 16:57	1
Selenium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 16:57	1
Silver	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Thallium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 16:57	1
Vanadium	ND		0.0040		mg/L		02/03/17 09:15	02/03/17 16:57	1
Zinc	ND		0.0070		mg/L		02/03/17 09:15	02/03/17 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 18:00	1
Chloride	**43**		0.90		mg/L			02/06/17 18:00	1
Sulfate	**35**		1.2		mg/L			02/06/17 18:00	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**0.057**		0.050		mg/L			02/08/17 13:45	1
Total Organic Carbon	**1.7**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**270**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**270**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**410**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-08
Date Collected: 01/26/17 11:01
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 18:19	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 18:19	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 18:19	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 18:19	1
Trichlorofluoromethane	ND	H	0.50		ug/L			02/14/17 18:19	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 18:19	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 18:19	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 18:19	1
Acetone	ND	H	2.0		ug/L			02/14/17 18:19	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 18:19	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 18:19	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 18:19	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 18:19	1
1,1-Dichloroethane	ND	H	0.20		ug/L			02/14/17 18:19	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 18:19	1
2-Butanone	ND	H	15		ug/L			02/14/17 18:19	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 18:19	1
Chloroform	ND	H	0.20		ug/L			02/14/17 18:19	1
1,1,1-Trichloroethane	ND	H	0.20		ug/L			02/14/17 18:19	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 18:19	1
Benzene	ND	H	0.20		ug/L			02/14/17 18:19	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 18:19	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 18:19	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 18:19	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 18:19	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 18:19	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 18:19	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 18:19	1
Toluene	ND	H	0.20		ug/L			02/14/17 18:19	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 18:19	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 18:19	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 18:19	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 18:19	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 18:19	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 18:19	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 18:19	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 18:19	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 18:19	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 18:19	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 18:19	1
Styrene	ND	H	0.50		ug/L			02/14/17 18:19	1
Bromoform	ND	H	0.50		ug/L			02/14/17 18:19	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 18:19	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 18:19	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 18:19	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 18:19	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 18:19	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 18:19	1

Client Sample ID: 0117-08

Date Collected: 01/26/17 11:01
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-17

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/14/17 18:19*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*02/14/17 18:19*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*02/14/17 18:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*02/14/17 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*02/14/17 18:19*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		02/03/17 09:15	02/03/17 23:16	1
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 23:16	1
Magnesium	**88**		1.1		mg/L		02/03/17 09:15	02/03/17 23:16	1
Manganese	**0.22**		0.020		mg/L		02/03/17 09:15	02/03/17 23:16	1
Potassium	**9.9**		3.3		mg/L		02/03/17 09:15	02/03/17 23:16	1
Sodium	**43**		2.0		mg/L		02/03/17 09:15	02/03/17 23:16	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Arsenic	**0.0049**		0.0010		mg/L		02/03/17 09:15	02/03/17 17:02	1
Barium	**0.079**		0.0012		mg/L		02/03/17 09:15	02/03/17 17:02	1
Beryllium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Cadmium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Chromium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Cobalt	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Copper	**0.0022**		0.0020		mg/L		02/03/17 09:15	02/03/17 17:02	1
Lead	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Nickel	**0.0083**		0.0030		mg/L		02/03/17 09:15	02/03/17 17:02	1
Selenium	**0.0016**		0.0010		mg/L		02/03/17 09:15	02/03/17 17:02	1
Silver	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Thallium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:02	1
Vanadium	**0.0057**		0.0040		mg/L		02/03/17 09:15	02/03/17 17:02	1
Zinc	**0.010**		0.0070		mg/L		02/03/17 09:15	02/03/17 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 18:15	1
Chloride	**100**		9.0		mg/L			02/07/17 09:52	10
Sulfate	**58**		1.2		mg/L			02/06/17 18:15	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**0.052**		0.050		mg/L			02/08/17 13:46	1
Total Organic Carbon	**3.1**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**580**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**580**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**800**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-17
Date Collected: 01/26/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 18:45	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 18:45	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 18:45	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 18:45	1
Trichlorofluoromethane	ND	H	0.50		ug/L			02/14/17 18:45	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 18:45	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 18:45	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 18:45	1
Acetone	ND	H	2.0		ug/L			02/14/17 18:45	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 18:45	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 18:45	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 18:45	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 18:45	1
1,1-Dichloroethane	ND	H	0.20		ug/L			02/14/17 18:45	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 18:45	1
2-Butanone	ND	H	15		ug/L			02/14/17 18:45	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 18:45	1
Chloroform	ND	H	0.20		ug/L			02/14/17 18:45	1
1,1,1-Trichloroethane	ND	H	0.20		ug/L			02/14/17 18:45	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 18:45	1
Benzene	ND	H	0.20		ug/L			02/14/17 18:45	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 18:45	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 18:45	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 18:45	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 18:45	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 18:45	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 18:45	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 18:45	1
Toluene	ND	H	0.20		ug/L			02/14/17 18:45	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 18:45	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 18:45	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 18:45	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 18:45	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 18:45	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 18:45	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 18:45	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 18:45	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 18:45	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 18:45	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 18:45	1
Styrene	ND	H	0.50		ug/L			02/14/17 18:45	1
Bromoform	ND	H	0.50		ug/L			02/14/17 18:45	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 18:45	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 18:45	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 18:45	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 18:45	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 18:45	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 18:45	1

Client Sample ID: 0117-17
Date Collected: 01/26/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-18
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/14/17 18:45*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*02/14/17 18:45*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*02/14/17 18:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*02/14/17 18:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*02/14/17 18:45*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		02/03/17 09:15	02/03/17 23:20	1
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 23:20	1
Magnesium	**72**		1.1		mg/L		02/03/17 09:15	02/03/17 23:20	1
Manganese	ND		0.020		mg/L		02/03/17 09:15	02/03/17 23:20	1
Potassium	**8.3**		3.3		mg/L		02/03/17 09:15	02/03/17 23:20	1
Sodium	**40**		2.0		mg/L		02/03/17 09:15	02/03/17 23:20	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Arsenic	**0.0044**		0.0010		mg/L		02/03/17 09:15	02/03/17 17:06	1
Barium	**0.027**		0.0012		mg/L		02/03/17 09:15	02/03/17 17:06	1
Beryllium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Cadmium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Chromium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Cobalt	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Copper	ND		0.0020		mg/L		02/03/17 09:15	02/03/17 17:06	1
Lead	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Nickel	**0.0043**		0.0030		mg/L		02/03/17 09:15	02/03/17 17:06	1
Selenium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:06	1
Silver	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Thallium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:06	1
Vanadium	**0.0048**		0.0040		mg/L		02/03/17 09:15	02/03/17 17:06	1
Zinc	ND		0.0070		mg/L		02/03/17 09:15	02/03/17 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 18:31	1
Chloride	**66**		0.90		mg/L			02/06/17 18:31	1
Sulfate	**66**		1.2		mg/L			02/06/17 18:31	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**3.0**		0.25		mg/L			02/08/17 13:47	5
Total Organic Carbon	**1.8**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**480**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**480**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**680**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-18
Date Collected: 01/26/17 14:10
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 19:11	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 19:11	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 19:11	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 19:11	1
Trichlorofluoromethane	**1.9**	**H**	0.50		ug/L			02/14/17 19:11	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 19:11	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 19:11	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 19:11	1
Acetone	ND	H	2.0		ug/L			02/14/17 19:11	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 19:11	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 19:11	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 19:11	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 19:11	1
1,1-Dichloroethane	**0.68**	**H**	0.20		ug/L			02/14/17 19:11	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 19:11	1
2-Butanone	ND	H	15		ug/L			02/14/17 19:11	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 19:11	1
Chloroform	ND	H	0.20		ug/L			02/14/17 19:11	1
1,1,1-Trichloroethane	**0.60**	**H**	0.20		ug/L			02/14/17 19:11	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 19:11	1
Benzene	ND	H	0.20		ug/L			02/14/17 19:11	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 19:11	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 19:11	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 19:11	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 19:11	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 19:11	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 19:11	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 19:11	1
Toluene	ND	H	0.20		ug/L			02/14/17 19:11	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 19:11	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 19:11	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 19:11	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 19:11	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 19:11	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 19:11	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 19:11	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 19:11	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 19:11	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 19:11	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 19:11	1
Styrene	ND	H	0.50		ug/L			02/14/17 19:11	1
Bromoform	ND	H	0.50		ug/L			02/14/17 19:11	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 19:11	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 19:11	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 19:11	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 19:11	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 19:11	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 19:11	1

Client Sample ID: 0117-18

Date Collected: 01/26/17 14:10
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-19

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/14/17 19:11*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*02/14/17 19:11*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*02/14/17 19:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*02/14/17 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/14/17 19:11*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		02/03/17 09:15	02/03/17 23:23	1
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 23:23	1
Magnesium	**89**		1.1		mg/L		02/03/17 09:15	02/03/17 23:23	1
Manganese	ND		0.020		mg/L		02/03/17 09:15	02/03/17 23:23	1
Potassium	**9.4**		3.3		mg/L		02/03/17 09:15	02/03/17 23:23	1
Sodium	**30**		2.0		mg/L		02/03/17 09:15	02/03/17 23:23	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Arsenic	**0.0030**		0.0010		mg/L		02/03/17 09:15	02/03/17 17:11	1
Barium	**0.050**		0.0012		mg/L		02/03/17 09:15	02/03/17 17:11	1
Beryllium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Cadmium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Chromium	**0.00061**		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Cobalt	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Copper	ND		0.0020		mg/L		02/03/17 09:15	02/03/17 17:11	1
Lead	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Nickel	**0.0046**		0.0030		mg/L		02/03/17 09:15	02/03/17 17:11	1
Selenium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:11	1
Silver	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Thallium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:11	1
Vanadium	**0.0057**		0.0040		mg/L		02/03/17 09:15	02/03/17 17:11	1
Zinc	ND		0.0070		mg/L		02/03/17 09:15	02/03/17 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 18:46	1
Chloride	**26**		0.90		mg/L			02/06/17 18:46	1
Sulfate	**98**		12		mg/L			02/07/17 10:07	10
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**7.6**		0.25		mg/L			02/08/17 13:48	5
Total Organic Carbon	**1.9**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**710**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**710**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**940**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-30
Date Collected: 01/26/17 15:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 19:37	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 19:37	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 19:37	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 19:37	1
Trichlorofluoromethane	ND	H	0.50		ug/L			02/14/17 19:37	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 19:37	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 19:37	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 19:37	1
Acetone	ND	H	2.0		ug/L			02/14/17 19:37	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 19:37	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 19:37	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 19:37	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 19:37	1
1,1-Dichloroethane	ND	H	0.20		ug/L			02/14/17 19:37	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 19:37	1
2-Butanone	ND	H	15		ug/L			02/14/17 19:37	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 19:37	1
Chloroform	ND	H	0.20		ug/L			02/14/17 19:37	1
1,1,1-Trichloroethane	ND	H	0.20		ug/L			02/14/17 19:37	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 19:37	1
Benzene	ND	H	0.20		ug/L			02/14/17 19:37	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 19:37	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 19:37	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 19:37	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 19:37	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 19:37	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 19:37	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 19:37	1
Toluene	ND	H	0.20		ug/L			02/14/17 19:37	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 19:37	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 19:37	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 19:37	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 19:37	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 19:37	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 19:37	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 19:37	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 19:37	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 19:37	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 19:37	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 19:37	1
Styrene	ND	H	0.50		ug/L			02/14/17 19:37	1
Bromoform	ND	H	0.50		ug/L			02/14/17 19:37	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 19:37	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 19:37	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 19:37	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 19:37	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 19:37	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 19:37	1

Client Sample ID: 0117-30

Date Collected: 01/26/17 15:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-20

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/14/17 19:37*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*02/14/17 19:37*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*02/14/17 19:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*02/14/17 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*02/14/17 19:37*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**75**		1.1		mg/L		02/03/17 09:15	02/03/17 23:26	1
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 23:26	1
Magnesium	**43**		1.1		mg/L		02/03/17 09:15	02/03/17 23:26	1
Manganese	ND		0.020		mg/L		02/03/17 09:15	02/03/17 23:26	1
Potassium	**5.2**		3.3		mg/L		02/03/17 09:15	02/03/17 23:26	1
Sodium	**30**		2.0		mg/L		02/03/17 09:15	02/03/17 23:26	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Arsenic	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:23	5
Barium	**0.023**		0.0060		mg/L		02/08/17 09:06	02/09/17 15:23	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Chromium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Copper	**0.057**		0.010		mg/L		02/08/17 09:06	02/09/17 15:23	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 15:23	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:23	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:23	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 15:23	5
Zinc	**0.080**		0.035		mg/L		02/08/17 09:06	02/09/17 15:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 19:01	1
Chloride	**55**		0.90		mg/L			02/06/17 19:01	1
Sulfate	**40**		1.2		mg/L			02/06/17 19:01	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**1.5**		0.050		mg/L			02/08/17 13:50	1
Total Organic Carbon	**1.8**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**480**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-29
Date Collected: 01/26/17 16:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 20:03	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 20:03	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 20:03	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 20:03	1
Trichlorofluoromethane	ND	H	0.50		ug/L			02/14/17 20:03	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 20:03	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 20:03	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 20:03	1
Acetone	ND	H	2.0		ug/L			02/14/17 20:03	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 20:03	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 20:03	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 20:03	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 20:03	1
1,1-Dichloroethane	ND	H	0.20		ug/L			02/14/17 20:03	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 20:03	1
2-Butanone	ND	H	15		ug/L			02/14/17 20:03	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 20:03	1
Chloroform	ND	H	0.20		ug/L			02/14/17 20:03	1
1,1,1-Trichloroethane	ND	H	0.20		ug/L			02/14/17 20:03	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 20:03	1
Benzene	ND	H	0.20		ug/L			02/14/17 20:03	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 20:03	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 20:03	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 20:03	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 20:03	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 20:03	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 20:03	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 20:03	1
Toluene	ND	H	0.20		ug/L			02/14/17 20:03	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 20:03	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 20:03	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 20:03	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 20:03	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 20:03	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 20:03	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 20:03	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 20:03	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 20:03	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 20:03	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 20:03	1
Styrene	ND	H	0.50		ug/L			02/14/17 20:03	1
Bromoform	ND	H	0.50		ug/L			02/14/17 20:03	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 20:03	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 20:03	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 20:03	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 20:03	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 20:03	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 20:03	1

Client Sample ID: 0117-29
Date Collected: 01/26/17 16:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-21
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/14/17 20:03*	*1*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*02/14/17 20:03*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*02/14/17 20:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*02/14/17 20:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*02/14/17 20:03*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**90**		1.1		mg/L		02/08/17 09:06	02/08/17 16:15	1
Iron	ND		0.30		mg/L		02/08/17 09:06	02/08/17 16:15	1
Magnesium	**46**		1.1		mg/L		02/08/17 09:06	02/08/17 16:15	1
Manganese	ND		0.020		mg/L		02/08/17 09:06	02/08/17 16:15	1
Potassium	**4.3**		3.3		mg/L		02/08/17 09:06	02/08/17 16:15	1
Sodium	**38**		2.0		mg/L		02/08/17 09:06	02/08/17 16:15	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Arsenic	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:28	5
Barium	**0.027**		0.0060		mg/L		02/08/17 09:06	02/09/17 15:28	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Chromium	**0.0025**		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Copper	ND		0.010		mg/L		02/08/17 09:06	02/09/17 15:28	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 15:28	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:28	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:28	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 15:28	5
Zinc	ND		0.035		mg/L		02/08/17 09:06	02/09/17 15:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 19:17	1
Chloride	**45**		0.90		mg/L			02/06/17 19:17	1
Sulfate	**54**		1.2		mg/L			02/06/17 19:17	1
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1
Nitrate Nitrite as N	**3.8**		0.25		mg/L			02/08/17 13:51	5
Total Organic Carbon	**2.0**		1.0		mg/L			02/09/17 20:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0	5.0	mg/L			02/02/17 11:57	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0	5.0	mg/L			02/02/17 11:57	1
Carbonate Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Hydroxide Alkalinity as CaCO3	ND		5.0	5.0	mg/L			02/02/17 11:57	1
Total Dissolved Solids	**530**		10	10	mg/L			01/31/17 09:39	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Client Sample ID: TRIP BLANK
Date Collected: 01/26/17 00:01
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND	H	0.30		ug/L			02/14/17 16:10	1
Vinyl chloride	ND	H	0.020		ug/L			02/14/17 16:10	1
Bromomethane	ND	H	1.0		ug/L			02/14/17 16:10	1
Chloroethane	ND	H	0.50		ug/L			02/14/17 16:10	1
Trichlorofluoromethane	ND	H	0.50		ug/L			02/14/17 16:10	1
1,1-Dichloroethene	ND	H	0.10		ug/L			02/14/17 16:10	1
Methyl iodide	ND	H	0.50		ug/L			02/14/17 16:10	1
Carbon disulfide	ND	H	0.20		ug/L			02/14/17 16:10	1
Acetone	ND	H	2.0		ug/L			02/14/17 16:10	1
Methylene Chloride	ND	H	0.50		ug/L			02/14/17 16:10	1
Acrylonitrile	ND	H	5.0		ug/L			02/14/17 16:10	1
Vinyl acetate	ND	H	1.0		ug/L			02/14/17 16:10	1
trans-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 16:10	1
1,1-Dichloroethane	ND	H	0.20		ug/L			02/14/17 16:10	1
cis-1,2-Dichloroethene	ND	H	0.20		ug/L			02/14/17 16:10	1
2-Butanone	ND	H	15		ug/L			02/14/17 16:10	1
Bromochloromethane	ND	H	0.20		ug/L			02/14/17 16:10	1
Chloroform	ND	H	0.20		ug/L			02/14/17 16:10	1
1,1,1-Trichloroethane	ND	H	0.20		ug/L			02/14/17 16:10	1
Carbon tetrachloride	ND	H	0.20		ug/L			02/14/17 16:10	1
Benzene	ND	H	0.20		ug/L			02/14/17 16:10	1
1,2-Dichloroethane	ND	H	0.20		ug/L			02/14/17 16:10	1
Trichloroethene	ND	H	0.20		ug/L			02/14/17 16:10	1
1,2-Dichloropropane	ND	H	0.20		ug/L			02/14/17 16:10	1
Dibromomethane	ND	H	0.20		ug/L			02/14/17 16:10	1
Bromodichloromethane	ND	H	0.20		ug/L			02/14/17 16:10	1
cis-1,3-Dichloropropene	ND	H	0.50		ug/L			02/14/17 16:10	1
4-Methyl-2-pentanone	ND	H	5.0		ug/L			02/14/17 16:10	1
Toluene	ND	H	0.20		ug/L			02/14/17 16:10	1
trans-1,3-Dichloropropene	ND	H	0.20		ug/L			02/14/17 16:10	1
1,1,2-Trichloroethane	ND	H	0.20		ug/L			02/14/17 16:10	1
Tetrachloroethene	ND	H	0.50		ug/L			02/14/17 16:10	1
2-Hexanone	ND	H	2.0		ug/L			02/14/17 16:10	1
Dibromochloromethane	ND	H	0.20		ug/L			02/14/17 16:10	1
1,2-Dibromoethane	ND	H	0.10		ug/L			02/14/17 16:10	1
Chlorobenzene	ND	H	0.20		ug/L			02/14/17 16:10	1
1,1,1,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 16:10	1
Ethylbenzene	ND	H	0.20		ug/L			02/14/17 16:10	1
m,p-Xylene	ND	H	0.50		ug/L			02/14/17 16:10	1
o-Xylene	ND	H	0.50		ug/L			02/14/17 16:10	1
Styrene	ND	H	0.50		ug/L			02/14/17 16:10	1
Bromoform	ND	H	0.50		ug/L			02/14/17 16:10	1
1,1,2,2-Tetrachloroethane	ND	H	0.20		ug/L			02/14/17 16:10	1
1,2,3-Trichloropropane	ND	H	0.20		ug/L			02/14/17 16:10	1
trans-1,4-Dichloro-2-butene	ND	H	2.0		ug/L			02/14/17 16:10	1
1,4-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 16:10	1
1,2-Dichlorobenzene	ND	H	0.30		ug/L			02/14/17 16:10	1
1,2-Dibromo-3-Chloropropane	ND	H	2.0		ug/L			02/14/17 16:10	1

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: TRIP BLANK
Date Collected: 01/26/17 00:01
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-22
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		02/14/17 16:10	1
Trifluorotoluene (Surr)	98		74 - 118		02/14/17 16:10	1
Dibromofluoromethane (Surr)	99		42 - 132		02/14/17 16:10	1
4-Bromofluorobenzene (Surr)	100		81 - 120		02/14/17 16:10	1
1,2-Dichloroethane-d4 (Surr)	100		46 - 150		02/14/17 16:10	1

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

Lab Sample ID: MB 580-237944/4
Matrix: Water
Analysis Batch: 237944

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/08/17 00:02	1
Vinyl chloride	ND		0.020		ug/L			02/08/17 00:02	1
Bromomethane	ND		1.0		ug/L			02/08/17 00:02	1
Chloroethane	ND		0.50		ug/L			02/08/17 00:02	1
Trichlorofluoromethane	ND		0.50		ug/L			02/08/17 00:02	1
1,1-Dichloroethene	ND		0.10		ug/L			02/08/17 00:02	1
Methyl iodide	ND		0.50		ug/L			02/08/17 00:02	1
Carbon disulfide	ND		0.20		ug/L			02/08/17 00:02	1
Acetone	ND		2.0		ug/L			02/08/17 00:02	1
Methylene Chloride	ND		0.50		ug/L			02/08/17 00:02	1
Acrylonitrile	ND		5.0		ug/L			02/08/17 00:02	1
Vinyl acetate	ND		1.0		ug/L			02/08/17 00:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 00:02	1
1,1-Dichloroethane	ND		0.20		ug/L			02/08/17 00:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/08/17 00:02	1
2-Butanone	ND		15		ug/L			02/08/17 00:02	1
Bromochloromethane	ND		0.20		ug/L			02/08/17 00:02	1
Chloroform	ND		0.20		ug/L			02/08/17 00:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/08/17 00:02	1
Carbon tetrachloride	ND		0.20		ug/L			02/08/17 00:02	1
Benzene	ND		0.20		ug/L			02/08/17 00:02	1
1,2-Dichloroethane	ND		0.20		ug/L			02/08/17 00:02	1
Trichloroethene	ND		0.20		ug/L			02/08/17 00:02	1
1,2-Dichloropropane	ND		0.20		ug/L			02/08/17 00:02	1
Dibromomethane	ND		0.20		ug/L			02/08/17 00:02	1
Bromodichloromethane	ND		0.20		ug/L			02/08/17 00:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/08/17 00:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/08/17 00:02	1
Toluene	ND		0.20		ug/L			02/08/17 00:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/08/17 00:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/08/17 00:02	1
Tetrachloroethene	ND		0.50		ug/L			02/08/17 00:02	1
2-Hexanone	ND		2.0		ug/L			02/08/17 00:02	1
Dibromochloromethane	ND		0.20		ug/L			02/08/17 00:02	1
1,2-Dibromoethane	ND		0.10		ug/L			02/08/17 00:02	1
Chlorobenzene	ND		0.20		ug/L			02/08/17 00:02	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 00:02	1
Ethylbenzene	ND		0.20		ug/L			02/08/17 00:02	1
m,p-Xylene	ND		0.50		ug/L			02/08/17 00:02	1
o-Xylene	ND		0.50		ug/L			02/08/17 00:02	1
Styrene	ND		0.50		ug/L			02/08/17 00:02	1
Bromoform	ND		0.50		ug/L			02/08/17 00:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/08/17 00:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/08/17 00:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/08/17 00:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/08/17 00:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/08/17 00:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/08/17 00:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*75 - 125*		*02/08/17 00:02*	*1*
Trifluorotoluene (Surr)	*108*		*74 - 118*		*02/08/17 00:02*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*02/08/17 00:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*02/08/17 00:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*02/08/17 00:02*	*1*

Lab Sample ID: LCS 580-237944/5
Matrix: Water
Analysis Batch: 237944

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	4.45		ug/L		89	40 - 150
Vinyl chloride	5.00	4.30		ug/L		86	59 - 140
Bromomethane	5.00	4.77		ug/L		95	61 - 135
Chloroethane	5.00	6.19		ug/L		124	58 - 130
Trichlorofluoromethane	5.00	5.03		ug/L		101	60 - 150
1,1-Dichloroethene	5.00	4.47		ug/L		89	64 - 125
Methyl iodide	5.00	4.46		ug/L		89	47 - 145
Carbon disulfide	5.00	4.61		ug/L		92	65 - 128
Acetone	25.0	29.2		ug/L		117	20 - 138
Methylene Chloride	5.00	3.70		ug/L		74	58 - 134
Acrylonitrile	50.0	53.8		ug/L		108	55 - 134
Vinyl acetate	12.5	14.5		ug/L		116	30 - 150
trans-1,2-Dichloroethene	5.00	4.69		ug/L		94	69 - 124
1,1-Dichloroethane	5.00	5.07		ug/L		101	68 - 135
cis-1,2-Dichloroethene	5.00	4.97		ug/L		99	73 - 130
2-Butanone	25.0	34.0		ug/L		136	30 - 150
Bromochloromethane	5.00	5.07		ug/L		101	71 - 131
Chloroform	5.00	5.10		ug/L		102	71 - 130
1,1,1-Trichloroethane	5.00	4.32		ug/L		86	56 - 150
Carbon tetrachloride	5.00	4.52		ug/L		90	54 - 150
Benzene	5.00	5.11		ug/L		102	73 - 120
1,2-Dichloroethane	5.00	5.33		ug/L		107	63 - 150
Trichloroethene	5.00	4.21		ug/L		84	72 - 123
1,2-Dichloropropane	5.00	5.14		ug/L		103	72 - 120
Dibromomethane	5.00	5.01		ug/L		100	65 - 137
Bromodichloromethane	5.00	5.19		ug/L		104	62 - 150
cis-1,3-Dichloropropene	5.00	5.06		ug/L		101	54 - 150
4-Methyl-2-pentanone	25.0	26.3		ug/L		105	36 - 150
Toluene	5.00	5.18		ug/L		104	70 - 126
trans-1,3-Dichloropropene	5.00	5.02		ug/L		100	40 - 150
1,1,2-Trichloroethane	5.00	4.98		ug/L		100	62 - 137
Tetrachloroethene	5.00	4.65		ug/L		93	67 - 123
2-Hexanone	25.0	27.5		ug/L		110	25 - 150
Dibromochloromethane	5.00	5.32		ug/L		106	46 - 150
1,2-Dibromoethane	5.00	5.11		ug/L		102	56 - 146
Chlorobenzene	5.00	5.00		ug/L		100	74 - 114
1,1,1,2-Tetrachloroethane	5.00	4.87		ug/L		97	68 - 139
Ethylbenzene	5.00	4.96		ug/L		99	74 - 125
m,p-Xylene	5.00	4.87		ug/L		97	73 - 130
o-Xylene	5.00	4.96		ug/L		99	80 - 139
Styrene	5.00	4.95		ug/L		99	68 - 136
Bromoform	5.00	4.92		ug/L		98	51 - 137
1,1,2,2-Tetrachloroethane	5.00	8.94	*	ug/L		179	60 - 134

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

Lab Sample ID: LCS 580-237944/5
Matrix: Water
Analysis Batch: 237944

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	5.00	5.07		ug/L		101	45 - 150
trans-1,4-Dichloro-2-butene	5.00	6.41		ug/L		128	20 - 150
1,4-Dichlorobenzene	5.00	4.95		ug/L		99	77 - 120
1,2-Dichlorobenzene	5.00	4.66		ug/L		93	73 - 120
1,2-Dibromo-3-Chloropropane	5.00	4.75		ug/L		95	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*75 - 125*
Trifluorotoluene (Surr)	*104*		*74 - 118*
Dibromofluoromethane (Surr)	*105*		*42 - 132*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Lab Sample ID: LCSD 580-237944/6
Matrix: Water
Analysis Batch: 237944

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	5.00	4.36		ug/L		87	40 - 150	2	31
Vinyl chloride	5.00	4.24		ug/L		85	59 - 140	1	30
Bromomethane	5.00	5.02		ug/L		100	61 - 135	5	31
Chloroethane	5.00	6.36		ug/L		127	58 - 130	3	35
Trichlorofluoromethane	5.00	5.20		ug/L		104	60 - 150	3	31
1,1-Dichloroethene	5.00	4.78		ug/L		96	64 - 125	7	28
Methyl iodide	5.00	4.98		ug/L		100	47 - 145	11	35
Carbon disulfide	5.00	4.52		ug/L		90	65 - 128	2	32
Acetone	25.0	25.2		ug/L		101	20 - 138	15	35
Methylene Chloride	5.00	3.63		ug/L		73	58 - 134	2	29
Acrylonitrile	50.0	54.8		ug/L		110	55 - 134	2	35
Vinyl acetate	12.5	15.1		ug/L		120	30 - 150	4	35
trans-1,2-Dichloroethene	5.00	4.65		ug/L		93	69 - 124	1	27
1,1-Dichloroethane	5.00	5.02		ug/L		100	68 - 135	1	27
cis-1,2-Dichloroethene	5.00	5.00		ug/L		100	73 - 130	0	20
2-Butanone	25.0	29.6		ug/L		118	30 - 150	14	35
Bromochloromethane	5.00	5.04		ug/L		101	71 - 131	1	20
Chloroform	5.00	5.02		ug/L		100	71 - 130	2	20
1,1,1-Trichloroethane	5.00	4.77		ug/L		95	56 - 150	10	29
Carbon tetrachloride	5.00	4.85		ug/L		97	54 - 150	7	30
Benzene	5.00	5.10		ug/L		102	73 - 120	0	20
1,2-Dichloroethane	5.00	5.36		ug/L		107	63 - 150	1	29
Trichloroethene	5.00	4.24		ug/L		85	72 - 123	1	20
1,2-Dichloropropane	5.00	5.17		ug/L		103	72 - 120	1	20
Dibromomethane	5.00	5.08		ug/L		102	65 - 137	1	20
Bromodichloromethane	5.00	5.17		ug/L		103	62 - 150	0	20
cis-1,3-Dichloropropene	5.00	4.93		ug/L		99	54 - 150	3	28
4-Methyl-2-pentanone	25.0	24.8		ug/L		99	36 - 150	6	34
Toluene	5.00	5.05		ug/L		101	70 - 126	2	20
trans-1,3-Dichloropropene	5.00	4.88		ug/L		98	40 - 150	3	30

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

Lab Sample ID: LCSD 580-237944/6
Matrix: Water
Analysis Batch: 237944

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			5.00	4.87		ug/L		97	62 - 137	2	30
Tetrachloroethene			5.00	4.69		ug/L		94	67 - 123	1	20
2-Hexanone			25.0	26.2		ug/L		105	25 - 150	5	28
Dibromochloromethane			5.00	5.20		ug/L		104	46 - 150	2	20
1,2-Dibromoethane			5.00	5.07		ug/L		101	56 - 146	1	20
Chlorobenzene			5.00	4.96		ug/L		99	74 - 114	1	12
1,1,1,2-Tetrachloroethane			5.00	4.87		ug/L		97	68 - 139	0	20
Ethylbenzene			5.00	4.99		ug/L		100	74 - 125	1	20
m,p-Xylene			5.00	4.85		ug/L		97	73 - 130	0	20
o-Xylene			5.00	4.88		ug/L		98	80 - 139	2	20
Styrene			5.00	4.98		ug/L		100	68 - 136	1	20
Bromoform			5.00	4.96		ug/L		99	51 - 137	1	20
1,1,2,2-Tetrachloroethane			5.00	9.43	*	ug/L		189	60 - 134	5	25
1,2,3-Trichloropropane			5.00	5.22		ug/L		104	45 - 150	3	20
trans-1,4-Dichloro-2-butene			5.00	6.69		ug/L		134	20 - 150	4	20
1,4-Dichlorobenzene			5.00	4.92		ug/L		98	77 - 120	1	11
1,2-Dichlorobenzene			5.00	4.35		ug/L		87	73 - 120	7	14
1,2-Dibromo-3-Chloropropane			5.00	3.64	*	ug/L		73	34 - 150	27	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*106*		*74 - 118*
Dibromofluoromethane (Surr)	*105*		*42 - 132*
4-Bromofluorobenzene (Surr)	*95*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*

Lab Sample ID: MB 580-238357/4
Matrix: Water
Analysis Batch: 238357

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/14/17 12:21	1
Vinyl chloride	ND		0.020		ug/L			02/14/17 12:21	1
Bromomethane	ND		1.0		ug/L			02/14/17 12:21	1
Chloroethane	ND		0.50		ug/L			02/14/17 12:21	1
Trichlorofluoromethane	ND		0.50		ug/L			02/14/17 12:21	1
1,1-Dichloroethene	ND		0.10		ug/L			02/14/17 12:21	1
Methyl iodide	ND		0.50		ug/L			02/14/17 12:21	1
Carbon disulfide	ND		0.20		ug/L			02/14/17 12:21	1
Acetone	ND		2.0		ug/L			02/14/17 12:21	1
Methylene Chloride	ND		0.50		ug/L			02/14/17 12:21	1
Acrylonitrile	ND		5.0		ug/L			02/14/17 12:21	1
Vinyl acetate	ND		1.0		ug/L			02/14/17 12:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/14/17 12:21	1
1,1-Dichloroethane	ND		0.20		ug/L			02/14/17 12:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/14/17 12:21	1
2-Butanone	ND		15		ug/L			02/14/17 12:21	1
Bromochloromethane	ND		0.20		ug/L			02/14/17 12:21	1

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

Lab Sample ID: MB 580-238357/4
Matrix: Water
Analysis Batch: 238357

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20		ug/L			02/14/17 12:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/14/17 12:21	1
Carbon tetrachloride	ND		0.20		ug/L			02/14/17 12:21	1
Benzene	ND		0.20		ug/L			02/14/17 12:21	1
1,2-Dichloroethane	ND		0.20		ug/L			02/14/17 12:21	1
Trichloroethene	ND		0.20		ug/L			02/14/17 12:21	1
1,2-Dichloropropane	ND		0.20		ug/L			02/14/17 12:21	1
Dibromomethane	ND		0.20		ug/L			02/14/17 12:21	1
Bromodichloromethane	ND		0.20		ug/L			02/14/17 12:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/14/17 12:21	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/14/17 12:21	1
Toluene	ND		0.20		ug/L			02/14/17 12:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/14/17 12:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/14/17 12:21	1
Tetrachloroethene	ND		0.50		ug/L			02/14/17 12:21	1
2-Hexanone	ND		2.0		ug/L			02/14/17 12:21	1
Dibromochloromethane	ND		0.20		ug/L			02/14/17 12:21	1
1,2-Dibromoethane	ND		0.10		ug/L			02/14/17 12:21	1
Chlorobenzene	ND		0.20		ug/L			02/14/17 12:21	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/14/17 12:21	1
Ethylbenzene	ND		0.20		ug/L			02/14/17 12:21	1
m,p-Xylene	ND		0.50		ug/L			02/14/17 12:21	1
o-Xylene	ND		0.50		ug/L			02/14/17 12:21	1
Styrene	ND		0.50		ug/L			02/14/17 12:21	1
Bromoform	ND		0.50		ug/L			02/14/17 12:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/14/17 12:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/14/17 12:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/14/17 12:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/14/17 12:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/14/17 12:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/14/17 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/14/17 12:21*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*02/14/17 12:21*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*02/14/17 12:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*02/14/17 12:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*02/14/17 12:21*	*1*

Lab Sample ID: LCS 580-238357/5
Matrix: Water
Analysis Batch: 238357

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	4.82		ug/L		96	40 - 150
Vinyl chloride	5.00	4.89		ug/L		98	59 - 140
Bromomethane	5.00	5.05		ug/L		101	61 - 135
Chloroethane	5.00	4.72		ug/L		94	58 - 130

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

Lab Sample ID: LCS 580-238357/5
Matrix: Water
Analysis Batch: 238357

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	5.00	4.53		ug/L		91	60 - 150
1,1-Dichloroethene	5.00	5.04		ug/L		101	64 - 125
Methyl iodide	5.00	4.86		ug/L		97	47 - 145
Carbon disulfide	5.00	5.03		ug/L		101	65 - 128
Acetone	25.0	24.1		ug/L		96	20 - 138
Methylene Chloride	5.00	5.18		ug/L		104	58 - 134
Acrylonitrile	50.0	52.3		ug/L		105	55 - 134
Vinyl acetate	12.5	13.4		ug/L		107	30 - 150
trans-1,2-Dichloroethene	5.00	5.03		ug/L		101	69 - 124
1,1-Dichloroethane	5.00	5.01		ug/L		100	68 - 135
cis-1,2-Dichloroethene	5.00	4.94		ug/L		99	73 - 130
2-Butanone	25.0	27.1		ug/L		109	30 - 150
Bromochloromethane	5.00	5.14		ug/L		103	71 - 131
Chloroform	5.00	5.08		ug/L		102	71 - 130
1,1,1-Trichloroethane	5.00	5.02		ug/L		100	56 - 150
Carbon tetrachloride	5.00	5.04		ug/L		101	54 - 150
Benzene	5.00	5.07		ug/L		101	73 - 120
1,2-Dichloroethane	5.00	5.18		ug/L		104	63 - 150
Trichloroethene	5.00	5.05		ug/L		101	72 - 123
1,2-Dichloropropane	5.00	5.01		ug/L		100	72 - 120
Dibromomethane	5.00	5.23		ug/L		105	65 - 137
Bromodichloromethane	5.00	5.04		ug/L		101	62 - 150
cis-1,3-Dichloropropene	5.00	4.97		ug/L		99	54 - 150
4-Methyl-2-pentanone	25.0	26.7		ug/L		107	36 - 150
Toluene	5.00	5.10		ug/L		102	70 - 126
trans-1,3-Dichloropropene	5.00	5.29		ug/L		106	40 - 150
1,1,2-Trichloroethane	5.00	5.12		ug/L		102	62 - 137
Tetrachloroethene	5.00	5.02		ug/L		100	67 - 123
2-Hexanone	25.0	27.4		ug/L		110	25 - 150
Dibromochloromethane	5.00	5.01		ug/L		100	46 - 150
1,2-Dibromoethane	5.00	5.21		ug/L		104	56 - 146
Chlorobenzene	5.00	5.12		ug/L		102	74 - 114
1,1,1,2-Tetrachloroethane	5.00	5.10		ug/L		102	68 - 139
Ethylbenzene	5.00	5.17		ug/L		103	74 - 125
m,p-Xylene	5.00	5.14		ug/L		103	73 - 130
o-Xylene	5.00	5.15		ug/L		103	80 - 139
Styrene	5.00	5.12		ug/L		102	68 - 136
Bromoform	5.00	4.78		ug/L		96	51 - 137
1,1,2,2-Tetrachloroethane	5.00	5.25		ug/L		105	60 - 134
1,2,3-Trichloropropane	5.00	5.11		ug/L		102	45 - 150
trans-1,4-Dichloro-2-butene	5.00	4.97		ug/L		99	20 - 150
1,4-Dichlorobenzene	5.00	5.06		ug/L		101	77 - 120
1,2-Dichlorobenzene	5.00	5.13		ug/L		103	73 - 120
1,2-Dibromo-3-Chloropropane	5.00	5.44		ug/L		109	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*100*		*74 - 118*

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

Lab Sample ID: LCS 580-238357/5
Matrix: Water
Analysis Batch: 238357

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*42 - 132*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Lab Sample ID: LCSD 580-238357/6
Matrix: Water
Analysis Batch: 238357

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane			5.00	4.79		ug/L		96	40 - 150	1	31
Vinyl chloride			5.00	4.84		ug/L		97	59 - 140	1	30
Bromomethane			5.00	4.92		ug/L		98	61 - 135	3	31
Chloroethane			5.00	5.23		ug/L		105	58 - 130	10	35
Trichlorofluoromethane			5.00	4.70		ug/L		94	60 - 150	4	31
1,1-Dichloroethene			5.00	5.06		ug/L		101	64 - 125	0	28
Methyl iodide			5.00	4.94		ug/L		99	47 - 145	2	35
Carbon disulfide			5.00	5.11		ug/L		102	65 - 128	2	32
Acetone			25.0	21.8		ug/L		87	20 - 138	10	35
Methylene Chloride			5.00	5.21		ug/L		104	58 - 134	0	29
Acrylonitrile			50.0	49.9		ug/L		100	55 - 134	5	35
Vinyl acetate			12.5	12.6		ug/L		101	30 - 150	6	35
trans-1,2-Dichloroethene			5.00	5.09		ug/L		102	69 - 124	1	27
1,1-Dichloroethane			5.00	5.04		ug/L		101	68 - 135	1	27
cis-1,2-Dichloroethene			5.00	5.00		ug/L		100	73 - 130	1	20
2-Butanone			25.0	25.2		ug/L		101	30 - 150	7	35
Bromochloromethane			5.00	5.01		ug/L		100	71 - 131	3	20
Chloroform			5.00	5.11		ug/L		102	71 - 130	1	20
1,1,1-Trichloroethane			5.00	5.05		ug/L		101	56 - 150	1	29
Carbon tetrachloride			5.00	5.17		ug/L		103	54 - 150	2	30
Benzene			5.00	5.12		ug/L		102	73 - 120	1	20
1,2-Dichloroethane			5.00	5.06		ug/L		101	63 - 150	2	29
Trichloroethene			5.00	5.11		ug/L		102	72 - 123	1	20
1,2-Dichloropropane			5.00	5.02		ug/L		100	72 - 120	0	20
Dibromomethane			5.00	5.07		ug/L		101	65 - 137	3	20
Bromodichloromethane			5.00	5.00		ug/L		100	62 - 150	1	20
cis-1,3-Dichloropropene			5.00	5.03		ug/L		101	54 - 150	1	28
4-Methyl-2-pentanone			25.0	24.9		ug/L		100	36 - 150	7	34
Toluene			5.00	5.21		ug/L		104	70 - 126	2	20
trans-1,3-Dichloropropene			5.00	5.21		ug/L		104	40 - 150	2	30
1,1,2-Trichloroethane			5.00	5.04		ug/L		101	62 - 137	2	30
Tetrachloroethene			5.00	5.17		ug/L		103	67 - 123	3	20
2-Hexanone			25.0	25.0		ug/L		100	25 - 150	9	28
Dibromochloromethane			5.00	4.96		ug/L		99	46 - 150	1	20
1,2-Dibromoethane			5.00	5.03		ug/L		101	56 - 146	4	20
Chlorobenzene			5.00	5.19		ug/L		104	74 - 114	1	12
1,1,1,2-Tetrachloroethane			5.00	5.20		ug/L		104	68 - 139	2	20
Ethylbenzene			5.00	5.25		ug/L		105	74 - 125	2	20
m,p-Xylene			5.00	5.19		ug/L		104	73 - 130	1	20

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

Lab Sample ID: LCSD 580-238357/6
Matrix: Water
Analysis Batch: 238357

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			5.00	5.22		ug/L		104	80 - 139	1	20
Styrene			5.00	5.21		ug/L		104	68 - 136	2	20
Bromoform			5.00	4.67		ug/L		93	51 - 137	2	20
1,1,2,2-Tetrachloroethane			5.00	4.93		ug/L		99	60 - 134	6	25
1,2,3-Trichloropropane			5.00	4.81		ug/L		96	45 - 150	6	20
trans-1,4-Dichloro-2-butene			5.00	4.80		ug/L		96	20 - 150	3	20
1,4-Dichlorobenzene			5.00	5.17		ug/L		103	77 - 120	2	11
1,2-Dichlorobenzene			5.00	5.17		ug/L		103	73 - 120	1	14
1,2-Dibromo-3-Chloropropane			5.00	5.09		ug/L		102	34 - 150	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*98*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-237713/14-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/02/17 15:37	02/03/17 13:21	1
Iron	ND		0.30		mg/L		02/02/17 15:37	02/03/17 13:21	1
Magnesium	ND		1.1		mg/L		02/02/17 15:37	02/03/17 13:21	1
Manganese	ND		0.020		mg/L		02/02/17 15:37	02/03/17 13:21	1
Potassium	ND		3.3		mg/L		02/02/17 15:37	02/03/17 13:21	1
Sodium	ND		2.0		mg/L		02/02/17 15:37	02/03/17 13:21	1

Lab Sample ID: LCS 580-237713/15-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	19.8		mg/L		99	80 - 120
Iron			22.0	21.9		mg/L		100	80 - 120
Magnesium			20.0	20.0		mg/L		100	80 - 120
Manganese			1.00	0.996		mg/L		100	80 - 120
Potassium			20.0	19.9		mg/L		99	80 - 120
Sodium			20.0	20.2		mg/L		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-237713/16-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.7		mg/L		98	80 - 120	1	20
Iron	22.0	21.5		mg/L		98	80 - 120	2	20
Magnesium	20.0	19.7		mg/L		99	80 - 120	2	20
Manganese	1.00	0.986		mg/L		99	80 - 120	1	20
Potassium	20.0	19.5		mg/L		98	80 - 120	2	20
Sodium	20.0	19.8		mg/L		99	80 - 120	2	20

Lab Sample ID: MB 580-237730/14-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/03/17 08:56	02/03/17 23:39	1
Iron	ND		0.30		mg/L		02/03/17 08:56	02/03/17 23:39	1
Magnesium	ND		1.1		mg/L		02/03/17 08:56	02/03/17 23:39	1
Manganese	ND		0.020		mg/L		02/03/17 08:56	02/03/17 23:39	1
Potassium	ND		3.3		mg/L		02/03/17 08:56	02/03/17 23:39	1
Sodium	ND		2.0		mg/L		02/03/17 08:56	02/03/17 23:39	1

Lab Sample ID: LCS 580-237730/15-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	19.3		mg/L		97	80 - 120
Iron	22.0	21.2		mg/L		96	80 - 120
Magnesium	20.0	18.9		mg/L		94	80 - 120
Manganese	1.00	0.958		mg/L		96	80 - 120
Potassium	20.0	19.6		mg/L		98	80 - 120
Sodium	20.0	19.2		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-237730/16-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.0		mg/L		95	80 - 120	2	20
Iron	22.0	20.7		mg/L		94	80 - 120	3	20
Magnesium	20.0	18.4		mg/L		92	80 - 120	3	20
Manganese	1.00	0.956		mg/L		96	80 - 120	0	20
Potassium	20.0	19.1		mg/L		95	80 - 120	2	20
Sodium	20.0	18.7		mg/L		94	80 - 120	2	20

Lab Sample ID: MB 580-237733/14-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/03/17 09:15	02/03/17 22:39	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 580-237733/14-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.30		mg/L		02/03/17 09:15	02/03/17 22:39	1
Magnesium	ND		1.1		mg/L		02/03/17 09:15	02/03/17 22:39	1
Manganese	ND		0.020		mg/L		02/03/17 09:15	02/03/17 22:39	1
Potassium	ND		3.3		mg/L		02/03/17 09:15	02/03/17 22:39	1
Sodium	ND		2.0		mg/L		02/03/17 09:15	02/03/17 22:39	1

Lab Sample ID: LCS 580-237733/15-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	18.7		mg/L		93	80 - 120
Iron	22.0	20.6		mg/L		93	80 - 120
Magnesium	20.0	18.6		mg/L		93	80 - 120
Manganese	1.00	0.947		mg/L		95	80 - 120
Potassium	20.0	19.0		mg/L		95	80 - 120
Sodium	20.0	18.8		mg/L		94	80 - 120

Lab Sample ID: LCSD 580-237733/16-A
Matrix: Water
Analysis Batch: 237839

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.0		mg/L		95	80 - 120	2	20
Iron	22.0	20.9		mg/L		95	80 - 120	2	20
Magnesium	20.0	18.5		mg/L		93	80 - 120	0	20
Manganese	1.00	0.956		mg/L		96	80 - 120	1	20
Potassium	20.0	19.2		mg/L		96	80 - 120	1	20
Sodium	20.0	18.8		mg/L		94	80 - 120	0	20

Lab Sample ID: MB 580-237974/14-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/08/17 09:06	02/08/17 15:38	1
Iron	ND		0.30		mg/L		02/08/17 09:06	02/08/17 15:38	1
Magnesium	ND		1.1		mg/L		02/08/17 09:06	02/08/17 15:38	1
Manganese	ND		0.020		mg/L		02/08/17 09:06	02/08/17 15:38	1
Potassium	ND		3.3		mg/L		02/08/17 09:06	02/08/17 15:38	1
Sodium	ND		2.0		mg/L		02/08/17 09:06	02/08/17 15:38	1

Lab Sample ID: LCS 580-237974/15-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	19.9		mg/L		99	80 - 120
Iron	22.0	20.3		mg/L		92	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-237974/15-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	20.0	18.2		mg/L		91	80 - 120
Manganese	1.00	0.957		mg/L		96	80 - 120
Potassium	20.0	20.2		mg/L		101	80 - 120
Sodium	20.0	20.5		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-237974/16-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.0		mg/L		100	80 - 120	1	20
Iron	22.0	20.5		mg/L		93	80 - 120	1	20
Magnesium	20.0	18.4		mg/L		92	80 - 120	2	20
Manganese	1.00	0.969		mg/L		97	80 - 120	1	20
Potassium	20.0	20.5		mg/L		103	80 - 120	2	20
Sodium	20.0	21.0		mg/L		105	80 - 120	3	20

Lab Sample ID: 580-65692-3 MS
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-01
Prep Type: Dissolved
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	60		20.0	77.4		mg/L		85	75 - 125
Iron	ND		22.0	21.2		mg/L		96	75 - 125
Magnesium	42		20.0	59.0		mg/L		86	75 - 125
Manganese	0.14		1.00	1.10		mg/L		96	75 - 125
Potassium	6.3		20.0	25.5		mg/L		96	75 - 125
Sodium	26		20.0	44.6		mg/L		94	75 - 125

Lab Sample ID: 580-65692-3 MSD
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-01
Prep Type: Dissolved
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	60		20.0	77.8		mg/L		88	75 - 125	1	20
Iron	ND		22.0	21.5		mg/L		97	75 - 125	1	20
Magnesium	42		20.0	60.9		mg/L		96	75 - 125	3	20
Manganese	0.14		1.00	1.12		mg/L		97	75 - 125	1	20
Potassium	6.3		20.0	25.6		mg/L		97	75 - 125	0	20
Sodium	26		20.0	45.3		mg/L		97	75 - 125	1	20

Lab Sample ID: 580-65692-3 DU
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-01
Prep Type: Dissolved
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	60		58.4		mg/L		3	20
Iron	ND		ND		mg/L		NC	20
Magnesium	42		39.9		mg/L		5	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-65692-3 DU
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-01
Prep Type: Dissolved
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	0.14		0.138		mg/L		4	20
Potassium	6.3		6.04		mg/L		4	20
Sodium	26		24.7		mg/L		5	20

Lab Sample ID: 580-65692-D-10-C MS
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 580-65692-D-10-C MS
Prep Type: Dissolved
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	33		20.0	49.8		mg/L		85	75 - 125
Iron	ND		22.0	20.6		mg/L		92	75 - 125
Magnesium	24		20.0	41.8		mg/L		88	75 - 125
Manganese	0.057		1.00	0.980		mg/L		92	75 - 125
Potassium	10		20.0	28.8		mg/L		92	75 - 125
Sodium	37		20.0	54.0		mg/L		87	75 - 125

Lab Sample ID: 580-65692-D-10-D MSD
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 580-65692-D-10-D MSD
Prep Type: Dissolved
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	33		20.0	51.6		mg/L		94	75 - 125	4	20
Iron	ND		22.0	21.3		mg/L		96	75 - 125	3	20
Magnesium	24		20.0	42.0		mg/L		89	75 - 125	0	20
Manganese	0.057		1.00	1.01		mg/L		95	75 - 125	3	20
Potassium	10		20.0	29.9		mg/L		97	75 - 125	3	20
Sodium	37		20.0	54.5		mg/L		90	75 - 125	1	20

Lab Sample ID: 580-65692-D-10-B DU
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 580-65692-D-10-B DU
Prep Type: Dissolved
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	33		31.9		mg/L		3	20
Iron	ND		ND		mg/L		NC	20
Magnesium	24		22.9		mg/L		6	20
Manganese	0.057		0.0549		mg/L		3	20
Potassium	10		10.0		mg/L		4	20
Sodium	37		34.8		mg/L		5	20

Lab Sample ID: 580-65692-C-15-C MS
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-25
Prep Type: Dissolved
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	160		20.0	182	4	mg/L		87	75 - 125
Iron	ND		22.0	20.4		mg/L		93	75 - 125
Magnesium	110		20.0	124	4	mg/L		82	75 - 125
Manganese	0.045		1.00	0.980		mg/L		94	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-65692-C-15-C MS
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-25
Prep Type: Dissolved
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	8.8		20.0	28.4		mg/L		98	75 - 125
Sodium	44		20.0	62.4		mg/L		92	75 - 125

Lab Sample ID: 580-65692-C-15-D MSD
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-25
Prep Type: Dissolved
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	160		20.0	175	4	mg/L		56	75 - 125	4	20
Iron	ND		22.0	20.0		mg/L		91	75 - 125	2	20
Magnesium	110		20.0	121	4	mg/L		69	75 - 125	2	20
Manganese	0.045		1.00	0.957		mg/L		91	75 - 125	2	20
Potassium	8.8		20.0	27.7		mg/L		94	75 - 125	2	20
Sodium	44		20.0	60.9		mg/L		85	75 - 125	2	20

Lab Sample ID: 580-65692-C-15-B DU
Matrix: Water
Analysis Batch: 237839

Client Sample ID: 0117-25
Prep Type: Dissolved
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	160		156		mg/L		5	20
Iron	ND		ND		mg/L		NC	20
Magnesium	110		103		mg/L		4	20
Manganese	0.045		0.0429		mg/L		4	20
Potassium	8.8		8.50		mg/L		4	20
Sodium	44		42.0		mg/L		4	20

Lab Sample ID: 580-65692-D-9-C MS
Matrix: Water
Analysis Batch: 238039

Client Sample ID: 580-65692-D-9-C MS
Prep Type: Dissolved
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	150		20.0	163	4	mg/L		74	75 - 125
Iron	ND		22.0	20.4		mg/L		93	75 - 125
Magnesium	52		20.0	68.9		mg/L		84	75 - 125
Manganese	ND		1.00	0.978		mg/L		97	75 - 125
Potassium	6.6		20.0	27.4		mg/L		104	75 - 125
Sodium	34		20.0	54.4		mg/L		104	75 - 125

Lab Sample ID: 580-65692-D-9-D MSD
Matrix: Water
Analysis Batch: 238039

Client Sample ID: 580-65692-D-9-D MSD
Prep Type: Dissolved
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	150		20.0	162	4	mg/L		68	75 - 125	1	20
Iron	ND		22.0	20.0		mg/L		91	75 - 125	2	20
Magnesium	52		20.0	67.6		mg/L		77	75 - 125	2	20
Manganese	ND		1.00	0.947		mg/L		94	75 - 125	3	20
Potassium	6.6		20.0	26.8		mg/L		101	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-65692-D-9-D MSD
Matrix: Water
Analysis Batch: 238039

Client Sample ID: 580-65692-D-9-D MSD
Prep Type: Dissolved
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	34		20.0	53.0		mg/L		97	75 - 125	3	20

Lab Sample ID: 580-65692-D-9-B DU
Matrix: Water
Analysis Batch: 238039

Client Sample ID: 580-65692-D-9-B DU
Prep Type: Dissolved
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	150		147		mg/L		0.8	20
Iron	ND		ND		mg/L		NC	20
Magnesium	52		51.4		mg/L		1	20
Manganese	ND		ND		mg/L		NC	20
Potassium	6.6		6.56		mg/L		0.9	20
Sodium	34		33.1		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-237713/14-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Arsenic	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 14:07	1
Barium	ND		0.0012		mg/L		02/02/17 15:37	02/03/17 14:07	1
Beryllium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Cadmium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Chromium	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Cobalt	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Copper	ND		0.0020		mg/L		02/02/17 15:37	02/03/17 14:07	1
Lead	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Nickel	ND		0.0030		mg/L		02/02/17 15:37	02/03/17 14:07	1
Selenium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 14:07	1
Silver	ND		0.00040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Thallium	ND		0.0010		mg/L		02/02/17 15:37	02/03/17 14:07	1
Vanadium	ND		0.0040		mg/L		02/02/17 15:37	02/03/17 14:07	1
Zinc	ND		0.0070		mg/L		02/02/17 15:37	02/03/17 14:07	1

Lab Sample ID: LCS 580-237713/15-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.94		mg/L		98	80 - 120
Arsenic	4.00	4.09		mg/L		102	80 - 120
Barium	4.00	4.00		mg/L		100	80 - 120
Beryllium	0.100	0.0994		mg/L		99	80 - 120
Cadmium	0.100	0.106		mg/L		106	80 - 120
Chromium	0.400	0.395		mg/L		99	80 - 120
Cobalt	1.00	0.988		mg/L		99	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-237713/15-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.500	0.512		mg/L		102	80 - 120
Lead	1.00	0.990		mg/L		99	80 - 120
Nickel	1.00	1.03		mg/L		103	80 - 120
Selenium	4.00	4.21		mg/L		105	80 - 120
Silver	0.600	0.621		mg/L		103	80 - 120
Thallium	4.00	3.86		mg/L		97	80 - 120
Vanadium	1.00	0.996		mg/L		100	80 - 120
Zinc	4.00	4.05		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-237713/16-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.88		mg/L		96	80 - 120	2	20
Arsenic	4.00	3.97		mg/L		99	80 - 120	3	20
Barium	4.00	3.91		mg/L		98	80 - 120	2	20
Beryllium	0.100	0.0969		mg/L		97	80 - 120	3	20
Cadmium	0.100	0.104		mg/L		104	80 - 120	2	20
Chromium	0.400	0.389		mg/L		97	80 - 120	2	20
Cobalt	1.00	0.960		mg/L		96	80 - 120	3	20
Copper	0.500	0.500		mg/L		100	80 - 120	2	20
Lead	1.00	0.976		mg/L		98	80 - 120	1	20
Nickel	1.00	0.990		mg/L		99	80 - 120	3	20
Selenium	4.00	4.13		mg/L		103	80 - 120	2	20
Silver	0.600	0.611		mg/L		102	80 - 120	1	20
Thallium	4.00	3.88		mg/L		97	80 - 120	0	20
Vanadium	1.00	0.976		mg/L		98	80 - 120	2	20
Zinc	4.00	3.92		mg/L		98	80 - 120	3	20

Lab Sample ID: 580-65692-3 MS
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-01
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.65		mg/L		88	80 - 120
Arsenic	0.0071		4.00	3.82		mg/L		95	80 - 120
Barium	0.023		4.00	3.80		mg/L		94	80 - 120
Beryllium	ND		0.100	0.0907		mg/L		91	80 - 120
Cadmium	ND		0.100	0.0975		mg/L		97	80 - 120
Chromium	ND		0.400	0.387		mg/L		97	80 - 120
Cobalt	ND		1.00	0.922		mg/L		92	80 - 120
Copper	ND		0.500	0.493		mg/L		99	80 - 120
Lead	ND		1.00	0.936		mg/L		94	80 - 120
Nickel	ND		1.00	0.950		mg/L		95	80 - 120
Selenium	ND		4.00	4.00		mg/L		100	80 - 120
Silver	ND		0.600	0.579		mg/L		96	80 - 120
Thallium	ND		4.00	3.69		mg/L		92	80 - 120
Vanadium	ND		1.00	0.962		mg/L		96	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65692-3 MS
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-01
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.10		4.00	3.90		mg/L		95	80 - 120

Lab Sample ID: 580-65692-3 MSD
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-01
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.65		mg/L		88	80 - 120	0	20
Arsenic	0.0071		4.00	3.86		mg/L		96	80 - 120	1	20
Barium	0.023		4.00	3.81		mg/L		95	80 - 120	0	20
Beryllium	ND		0.100	0.0891		mg/L		89	80 - 120	2	20
Cadmium	ND		0.100	0.102		mg/L		102	80 - 120	5	20
Chromium	ND		0.400	0.383		mg/L		96	80 - 120	1	20
Cobalt	ND		1.00	0.927		mg/L		93	80 - 120	0	20
Copper	ND		0.500	0.504		mg/L		101	80 - 120	2	20
Lead	ND		1.00	0.937		mg/L		94	80 - 120	0	20
Nickel	ND		1.00	0.971		mg/L		97	80 - 120	2	20
Selenium	ND		4.00	4.02		mg/L		100	80 - 120	0	20
Silver	ND		0.600	0.584		mg/L		97	80 - 120	1	20
Thallium	ND		4.00	3.76		mg/L		94	80 - 120	2	20
Vanadium	ND		1.00	0.963		mg/L		96	80 - 120	0	20
Zinc	0.10		4.00	3.93		mg/L		96	80 - 120	1	20

Lab Sample ID: 580-65692-3 DU
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-01
Prep Type: Total Recoverable
Prep Batch: 237713

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0071		0.00683		mg/L		3	20
Barium	0.023		0.0224		mg/L		1	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	0.10		0.100		mg/L		4	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-237730/14-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Arsenic	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:41	1
Barium	ND		0.0012		mg/L		02/03/17 08:56	02/03/17 15:41	1
Beryllium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Cadmium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Chromium	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Cobalt	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Copper	ND		0.0020		mg/L		02/03/17 08:56	02/03/17 15:41	1
Lead	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Nickel	ND		0.0030		mg/L		02/03/17 08:56	02/03/17 15:41	1
Selenium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:41	1
Silver	ND		0.00040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Thallium	ND		0.0010		mg/L		02/03/17 08:56	02/03/17 15:41	1
Vanadium	ND		0.0040		mg/L		02/03/17 08:56	02/03/17 15:41	1
Zinc	ND		0.0070		mg/L		02/03/17 08:56	02/03/17 15:41	1

Lab Sample ID: LCS 580-237730/15-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.77		mg/L		92	80 - 120
Arsenic	4.00	3.86		mg/L		97	80 - 120
Barium	4.00	3.79		mg/L		95	80 - 120
Beryllium	0.100	0.0919		mg/L		92	80 - 120
Cadmium	0.100	0.102		mg/L		102	80 - 120
Chromium	0.400	0.370		mg/L		93	80 - 120
Cobalt	1.00	0.920		mg/L		92	80 - 120
Copper	0.500	0.476		mg/L		95	80 - 120
Lead	1.00	0.925		mg/L		92	80 - 120
Nickel	1.00	0.959		mg/L		96	80 - 120
Selenium	4.00	4.01		mg/L		100	80 - 120
Silver	0.600	0.603		mg/L		100	80 - 120
Thallium	4.00	3.62		mg/L		91	80 - 120
Vanadium	1.00	0.955		mg/L		95	80 - 120
Zinc	4.00	3.79		mg/L		95	80 - 120

Lab Sample ID: LCSD 580-237730/16-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.81		mg/L		94	80 - 120	2	20
Arsenic	4.00	3.86		mg/L		96	80 - 120	0	20
Barium	4.00	3.83		mg/L		96	80 - 120	1	20
Beryllium	0.100	0.0970		mg/L		97	80 - 120	5	20
Cadmium	0.100	0.101		mg/L		101	80 - 120	1	20
Chromium	0.400	0.364		mg/L		91	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-237730/16-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	0.920		mg/L		92	80 - 120	0	20
Copper			0.500	0.478		mg/L		96	80 - 120	1	20
Lead			1.00	0.946		mg/L		95	80 - 120	2	20
Nickel			1.00	0.945		mg/L		95	80 - 120	1	20
Selenium			4.00	3.99		mg/L		100	80 - 120	0	20
Silver			0.600	0.593		mg/L		99	80 - 120	2	20
Thallium			4.00	3.74		mg/L		94	80 - 120	3	20
Vanadium			1.00	0.935		mg/L		94	80 - 120	2	20
Zinc			4.00	3.77		mg/L		94	80 - 120	1	20

Lab Sample ID: 580-65692-D-10-C MS
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-04
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.72		mg/L		91	80 - 120
Arsenic	0.016		4.00	4.04		mg/L		101	80 - 120
Barium	0.031		4.00	4.01		mg/L		99	80 - 120
Beryllium	ND		0.100	0.0964		mg/L		96	80 - 120
Cadmium	ND		0.100	0.101		mg/L		101	80 - 120
Chromium	0.00055		0.400	0.396		mg/L		99	80 - 120
Cobalt	ND		1.00	0.971		mg/L		97	80 - 120
Copper	ND		0.500	0.495		mg/L		99	80 - 120
Lead	ND		1.00	0.979		mg/L		98	80 - 120
Nickel	ND		1.00	0.995		mg/L		99	80 - 120
Selenium	ND		4.00	4.20		mg/L		105	80 - 120
Silver	ND		0.600	0.603		mg/L		100	80 - 120
Thallium	ND		4.00	3.84		mg/L		96	80 - 120
Vanadium	ND		1.00	0.985		mg/L		98	80 - 120
Zinc	ND		4.00	3.96		mg/L		99	80 - 120

Lab Sample ID: 580-65692-D-10-D MSD
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-04
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.62		mg/L		87	80 - 120	4	20
Arsenic	0.016		4.00	3.85		mg/L		96	80 - 120	5	20
Barium	0.031		4.00	3.85		mg/L		96	80 - 120	4	20
Beryllium	ND		0.100	0.0950		mg/L		95	80 - 120	1	20
Cadmium	ND		0.100	0.103		mg/L		103	80 - 120	2	20
Chromium	0.00055		0.400	0.377		mg/L		94	80 - 120	5	20
Cobalt	ND		1.00	0.918		mg/L		92	80 - 120	6	20
Copper	ND		0.500	0.475		mg/L		95	80 - 120	4	20
Lead	ND		1.00	0.939		mg/L		94	80 - 120	4	20
Nickel	ND		1.00	0.951		mg/L		95	80 - 120	5	20
Selenium	ND		4.00	3.99		mg/L		100	80 - 120	5	20
Silver	ND		0.600	0.588		mg/L		98	80 - 120	2	20
Thallium	ND		4.00	3.71		mg/L		93	80 - 120	3	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65692-D-10-D MSD
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-04
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	0.960		mg/L		96	80 - 120	3	20
Zinc	ND		4.00	3.75		mg/L		94	80 - 120	5	20

Lab Sample ID: 580-65692-D-10-B DU
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 0117-04
Prep Type: Total Recoverable
Prep Batch: 237730

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.016		0.0151		mg/L		5	20
Barium	0.031		0.0299		mg/L		4	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.00055		0.000576		mg/L		5	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-237733/14-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Arsenic	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:33	1
Barium	ND		0.0012		mg/L		02/03/17 09:15	02/03/17 17:33	1
Beryllium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Cadmium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Chromium	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Cobalt	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Copper	ND		0.0020		mg/L		02/03/17 09:15	02/03/17 17:33	1
Lead	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Nickel	ND		0.0030		mg/L		02/03/17 09:15	02/03/17 17:33	1
Selenium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:33	1
Silver	ND		0.00040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Thallium	ND		0.0010		mg/L		02/03/17 09:15	02/03/17 17:33	1
Vanadium	ND		0.0040		mg/L		02/03/17 09:15	02/03/17 17:33	1
Zinc	ND		0.0070		mg/L		02/03/17 09:15	02/03/17 17:33	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-237733/15-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.73		mg/L		91	80 - 120
Arsenic	4.00	3.78		mg/L		94	80 - 120
Barium	4.00	3.72		mg/L		93	80 - 120
Beryllium	0.100	0.0907		mg/L		91	80 - 120
Cadmium	0.100	0.102		mg/L		102	80 - 120
Chromium	0.400	0.360		mg/L		90	80 - 120
Cobalt	1.00	0.901		mg/L		90	80 - 120
Copper	0.500	0.468		mg/L		94	80 - 120
Lead	1.00	0.907		mg/L		91	80 - 120
Nickel	1.00	0.930		mg/L		93	80 - 120
Selenium	4.00	3.98		mg/L		99	80 - 120
Silver	0.600	0.574		mg/L		96	80 - 120
Thallium	4.00	3.66		mg/L		92	80 - 120
Vanadium	1.00	0.941		mg/L		94	80 - 120
Zinc	4.00	3.71		mg/L		93	80 - 120

Lab Sample ID: LCSD 580-237733/16-A
Matrix: Water
Analysis Batch: 237847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.77		mg/L		92	80 - 120	1	20
Arsenic	4.00	3.80		mg/L		95	80 - 120	1	20
Barium	4.00	3.78		mg/L		94	80 - 120	2	20
Beryllium	0.100	0.0902		mg/L		90	80 - 120	1	20
Cadmium	0.100	0.0974		mg/L		97	80 - 120	5	20
Chromium	0.400	0.364		mg/L		91	80 - 120	1	20
Cobalt	1.00	0.914		mg/L		91	80 - 120	1	20
Copper	0.500	0.475		mg/L		95	80 - 120	2	20
Lead	1.00	0.929		mg/L		93	80 - 120	2	20
Nickel	1.00	0.931		mg/L		93	80 - 120	0	20
Selenium	4.00	3.96		mg/L		99	80 - 120	0	20
Silver	0.600	0.582		mg/L		97	80 - 120	1	20
Thallium	4.00	3.72		mg/L		93	80 - 120	2	20
Vanadium	1.00	0.937		mg/L		94	80 - 120	0	20
Zinc	4.00	3.72		mg/L		93	80 - 120	0	20

Lab Sample ID: 580-65692-C-15-C MS
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 580-65692-C-15-C MS
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.09		mg/L		103	80 - 120
Arsenic	0.0066		4.00	4.13		mg/L		103	80 - 120
Barium	0.044		4.00	4.20		mg/L		104	80 - 120
Beryllium	ND		0.100	0.101		mg/L		101	80 - 120
Cadmium	ND		0.100	0.109		mg/L		109	80 - 120
Chromium	ND		0.400	0.408		mg/L		102	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65692-C-15-C MS
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 580-65692-C-15-C MS
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.00072		1.00	0.978		mg/L		98	80 - 120
Copper	ND		0.500	0.509		mg/L		102	80 - 120
Lead	ND		1.00	1.01		mg/L		101	80 - 120
Nickel	0.0055		1.00	1.02		mg/L		101	80 - 120
Selenium	0.0010		4.00	4.31		mg/L		108	80 - 120
Silver	ND		0.600	0.629		mg/L		105	80 - 120
Thallium	ND		4.00	4.05		mg/L		101	80 - 120
Vanadium	0.0082		1.00	1.04		mg/L		103	80 - 120
Zinc	ND		4.00	4.04		mg/L		101	80 - 120

Lab Sample ID: 580-65692-C-15-D MSD
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 580-65692-C-15-D MSD
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.11		mg/L		104	80 - 120	1	20
Arsenic	0.0066		4.00	4.12		mg/L		103	80 - 120	0	20
Barium	0.044		4.00	4.23		mg/L		105	80 - 120	1	20
Beryllium	ND		0.100	0.0971		mg/L		97	80 - 120	4	20
Cadmium	ND		0.100	0.107		mg/L		107	80 - 120	2	20
Chromium	ND		0.400	0.402		mg/L		100	80 - 120	1	20
Cobalt	0.00072		1.00	0.971		mg/L		97	80 - 120	1	20
Copper	ND		0.500	0.508		mg/L		101	80 - 120	0	20
Lead	ND		1.00	1.02		mg/L		102	80 - 120	1	20
Nickel	0.0055		1.00	1.00		mg/L		100	80 - 120	1	20
Selenium	0.0010		4.00	4.35		mg/L		109	80 - 120	1	20
Silver	ND		0.600	0.626		mg/L		104	80 - 120	0	20
Thallium	ND		4.00	4.09		mg/L		102	80 - 120	1	20
Vanadium	0.0082		1.00	1.04		mg/L		103	80 - 120	1	20
Zinc	ND		4.00	4.01		mg/L		100	80 - 120	1	20

Lab Sample ID: 580-65692-C-15-B DU
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 580-65692-C-15-B DU
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0066		0.00627		mg/L		5	20
Barium	0.044		0.0426		mg/L		4	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	0.00072		0.000688		mg/L		5	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0055		0.00522		mg/L		5	20
Selenium	0.0010		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65692-C-15-B DU
Matrix: Water
Analysis Batch: 237847

Client Sample ID: 580-65692-C-15-B DU
Prep Type: Total Recoverable
Prep Batch: 237733

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Vanadium	0.0082		0.00800		mg/L		3	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-237974/14-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Arsenic	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:30	5
Barium	ND		0.0060		mg/L		02/08/17 09:06	02/09/17 14:30	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Chromium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Copper	ND		0.010		mg/L		02/08/17 09:06	02/09/17 14:30	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 14:30	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:30	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:30	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Zinc	ND		0.035		mg/L		02/08/17 09:06	02/09/17 14:30	5

Lab Sample ID: LCS 580-237974/15-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.60		mg/L		87	80 - 120
Arsenic	4.00	3.90		mg/L		97	80 - 120
Barium	4.00	3.82		mg/L		96	80 - 120
Beryllium	0.100	0.0964		mg/L		96	80 - 120
Cadmium	0.100	0.0928		mg/L		93	80 - 120
Chromium	0.400	0.396		mg/L		99	80 - 120
Cobalt	1.00	0.941		mg/L		94	80 - 120
Copper	0.500	0.498		mg/L		100	80 - 120
Lead	1.00	0.930		mg/L		93	80 - 120
Nickel	1.00	1.00		mg/L		100	80 - 120
Selenium	4.00	3.93		mg/L		98	80 - 120
Silver	0.600	0.558		mg/L		93	80 - 120
Thallium	4.00	3.78		mg/L		94	80 - 120
Vanadium	1.00	0.943		mg/L		94	80 - 120
Zinc	4.00	3.84		mg/L		96	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-237974/16-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony			3.00	2.51		mg/L		84	80 - 120	3	20
Arsenic			4.00	3.95		mg/L		99	80 - 120	1	20
Barium			4.00	3.85		mg/L		96	80 - 120	1	20
Beryllium			0.100	0.0967		mg/L		97	80 - 120	0	20
Cadmium			0.100	0.101		mg/L		101	80 - 120	9	20
Chromium			0.400	0.399		mg/L		100	80 - 120	1	20
Cobalt			1.00	0.947		mg/L		95	80 - 120	1	20
Copper			0.500	0.501		mg/L		100	80 - 120	1	20
Lead			1.00	0.935		mg/L		94	80 - 120	1	20
Nickel			1.00	1.01		mg/L		101	80 - 120	1	20
Selenium			4.00	3.92		mg/L		98	80 - 120	0	20
Silver			0.600	0.565		mg/L		94	80 - 120	1	20
Thallium			4.00	3.78		mg/L		95	80 - 120	0	20
Vanadium			1.00	0.967		mg/L		97	80 - 120	3	20
Zinc			4.00	3.89		mg/L		97	80 - 120	1	20

Lab Sample ID: 580-65692-D-9-C MS
Matrix: Water
Analysis Batch: 238122

Client Sample ID: 0117-03
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.58		mg/L		86	80 - 120
Arsenic	ND		4.00	3.95		mg/L		99	80 - 120
Barium	0.051		4.00	3.94		mg/L		97	80 - 120
Beryllium	ND		0.100	0.101		mg/L		101	80 - 120
Cadmium	ND		0.100	0.0994		mg/L		99	80 - 120
Chromium	0.0067		0.400	0.407		mg/L		100	80 - 120
Cobalt	ND		1.00	0.937		mg/L		94	80 - 120
Copper	ND		0.500	0.498		mg/L		100	80 - 120
Lead	ND		1.00	0.932		mg/L		93	80 - 120
Nickel	ND		1.00	0.981		mg/L		98	80 - 120
Selenium	ND		4.00	3.95		mg/L		99	80 - 120
Silver	ND		0.600	0.563		mg/L		94	80 - 120
Thallium	ND		4.00	3.81		mg/L		95	80 - 120
Vanadium	ND		1.00	0.979		mg/L		97	80 - 120
Zinc	ND		4.00	3.90		mg/L		97	80 - 120

Lab Sample ID: 580-65692-D-9-D MSD
Matrix: Water
Analysis Batch: 238122

Client Sample ID: 0117-03
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.64		mg/L		88	80 - 120	2	20
Arsenic	ND		4.00	4.01		mg/L		100	80 - 120	2	20
Barium	0.051		4.00	4.02		mg/L		99	80 - 120	2	20
Beryllium	ND		0.100	0.100		mg/L		100	80 - 120	0	20
Cadmium	ND		0.100	0.0976		mg/L		98	80 - 120	2	20
Chromium	0.0067		0.400	0.414		mg/L		102	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-65692-D-9-D MSD
Matrix: Water
Analysis Batch: 238122

Client Sample ID: 0117-03
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	ND		1.00	0.967		mg/L		97	80 - 120	3	20
Copper	ND		0.500	0.502		mg/L		100	80 - 120	1	20
Lead	ND		1.00	0.962		mg/L		96	80 - 120	3	20
Nickel	ND		1.00	0.992		mg/L		99	80 - 120	1	20
Selenium	ND		4.00	4.04		mg/L		101	80 - 120	2	20
Silver	ND		0.600	0.582		mg/L		97	80 - 120	3	20
Thallium	ND		4.00	4.00		mg/L		100	80 - 120	5	20
Vanadium	ND		1.00	0.998		mg/L		99	80 - 120	2	20
Zinc	ND		4.00	3.99		mg/L		100	80 - 120	2	20

Lab Sample ID: 580-65692-D-9-B DU
Matrix: Water
Analysis Batch: 238122

Client Sample ID: 0117-03
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND			ND		mg/L				NC	20
Arsenic	ND			ND		mg/L				NC	20
Barium	0.051			0.0468		mg/L				8	20
Beryllium	ND			ND		mg/L				NC	20
Cadmium	ND			ND		mg/L				NC	20
Chromium	0.0067			0.00640		mg/L				4	20
Cobalt	ND			ND		mg/L				NC	20
Copper	ND			ND		mg/L				NC	20
Lead	ND			ND		mg/L				NC	20
Nickel	ND			ND		mg/L				NC	20
Selenium	ND			ND		mg/L				NC	20
Silver	ND			ND		mg/L				NC	20
Thallium	ND			ND		mg/L				NC	20
Vanadium	ND			ND		mg/L				NC	20
Zinc	ND			ND		mg/L				NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-237860/2
Matrix: Water
Analysis Batch: 237860

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/03/17 08:33	1
Chloride	ND		0.90		mg/L			02/03/17 08:33	1
Sulfate	ND		1.2		mg/L			02/03/17 08:33	1

Lab Sample ID: LCS 580-237860/3
Matrix: Water
Analysis Batch: 237860

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			5.00	4.92		mg/L		98	90 - 110		
Chloride			50.0	47.9		mg/L		96	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-237860/3
Matrix: Water
Analysis Batch: 237860

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.4		mg/L		97	90 - 110

Lab Sample ID: LCSD 580-237860/4
Matrix: Water
Analysis Batch: 237860

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.91		mg/L		98	90 - 110	0	15
Chloride	50.0	47.7		mg/L		95	90 - 110	0	15
Sulfate	50.0	48.3		mg/L		97	90 - 110	0	15

Lab Sample ID: 580-65692-3 MS
Matrix: Water
Analysis Batch: 237860

Client Sample ID: 0117-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	4.97		mg/L		99	90 - 110
Chloride	21		50.0	69.9		mg/L		97	90 - 110
Sulfate	20		50.0	72.0		mg/L		104	90 - 110

Lab Sample ID: 580-65692-3 MSD
Matrix: Water
Analysis Batch: 237860

Client Sample ID: 0117-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.01		mg/L		100	90 - 110	1	15
Chloride	21		50.0	69.9		mg/L		97	90 - 110	0	15
Sulfate	20		50.0	72.3		mg/L		105	90 - 110	0	15

Lab Sample ID: MB 580-237898/3
Matrix: Water
Analysis Batch: 237898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 13:29	1
Chloride	ND		0.90		mg/L			02/06/17 13:29	1
Sulfate	ND		1.2		mg/L			02/06/17 13:29	1

Lab Sample ID: LCS 580-237898/4
Matrix: Water
Analysis Batch: 237898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.95		mg/L		99	90 - 110
Chloride	50.0	48.6		mg/L		97	90 - 110
Sulfate	50.0	49.0		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-237898/5
Matrix: Water
Analysis Batch: 237898

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.94		mg/L		99	90 - 110	0	15
Chloride	50.0	48.6		mg/L		97	90 - 110	0	15
Sulfate	50.0	49.0		mg/L		98	90 - 110	0	15

Lab Sample ID: 580-65692-6 MS
Matrix: Water
Analysis Batch: 237898

Client Sample ID: 0117-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND	F1	5.00	5.62	F1	mg/L		112	90 - 110
Chloride	34	F1	50.0	90.6	F1	mg/L		113	90 - 110
Sulfate	7.1	F1	50.0	63.8	F1	mg/L		113	90 - 110

Lab Sample ID: 580-65692-6 MSD
Matrix: Water
Analysis Batch: 237898

Client Sample ID: 0117-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1	5.00	6.12	F1	mg/L		122	90 - 110	9	15
Chloride	34	F1	50.0	95.7	F1	mg/L		123	90 - 110	5	15
Sulfate	7.1	F1	50.0	68.5	F1	mg/L		123	90 - 110	7	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-237521/1-A
Matrix: Water
Analysis Batch: 237468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		01/31/17 14:40	01/31/17 15:17	1

Lab Sample ID: LCS 580-237521/2-A
Matrix: Water
Analysis Batch: 237468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.83		mg/L		92	90 - 110

Lab Sample ID: 580-65692-3 MS
Matrix: Water
Analysis Batch: 237468

Client Sample ID: 0117-01
Prep Type: Total/NA
Prep Batch: 237521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND	F1	2.00	1.81	F1	mg/L		85	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 580-65692-3 MSD — **Client Sample ID: 0117-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 237468 — **Prep Batch: 237521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F1	2.00	1.71	F1	mg/L		80	90 - 110	6	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-238021/14 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 12:51	1

Lab Sample ID: MB 580-238021/48 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:31	1

Lab Sample ID: LCS 580-238021/15 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.965		mg/L		97	90 - 110

Lab Sample ID: LCS 580-238021/49 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.975		mg/L		98	90 - 110

Lab Sample ID: LCSD 580-238021/16 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238021

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.962		mg/L		96	90 - 110	0	20

Lab Sample ID: LCSD 580-238021/50 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238021

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.980		mg/L		98	90 - 110	1	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-65692-12 MS
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	4.5		0.500	4.63	4	mg/L		34	90 - 110

Lab Sample ID: 580-65692-12 MSD
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	4.5		0.500	4.80	4	mg/L		68	90 - 110	4	20

Lab Sample ID: 580-65692-12 DU
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	4.5		4.50		mg/L		0.8	20

Lab Sample ID: MB 580-238152/14
Matrix: Water
Analysis Batch: 238152

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/10/17 12:50	1

Lab Sample ID: LCS 580-238152/15
Matrix: Water
Analysis Batch: 238152

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: LCSD 580-238152/16
Matrix: Water
Analysis Batch: 238152

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.997		mg/L		100	90 - 110	0	20

Lab Sample ID: 580-65692-14 MS
Matrix: Water
Analysis Batch: 238152

Client Sample ID: 0117-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	46		0.500	46.3	4	mg/L		48	90 - 110

Lab Sample ID: 580-65692-14 MSD
Matrix: Water
Analysis Batch: 238152

Client Sample ID: 0117-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	46		0.500	45.8	4	mg/L		-56	90 - 110	1	20

Lab Sample ID: 580-65692-14 DU
Matrix: Water
Analysis Batch: 238152

Client Sample ID: 0117-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate Nitrite as N	46			45.4		mg/L				1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-237654/2
Matrix: Water
Analysis Batch: 237654

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	89.7		mg/L		90	85 - 115		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-237437/1
Matrix: Water
Analysis Batch: 237437

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			01/31/17 09:39	1

Lab Sample ID: LCS 580-237437/2
Matrix: Water
Analysis Batch: 237437

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1000		mg/L		100	80 - 120		

Lab Sample ID: 580-65692-13 DU
Matrix: Water
Analysis Batch: 237437

Client Sample ID: 0117-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	390			381		mg/L				2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-237556/3-A
Matrix: Water
Analysis Batch: 237558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237556

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	10	mg/L		02/01/17 09:45	02/01/17 09:45	1

Lab Sample ID: LCS 580-237556/4-A
Matrix: Water
Analysis Batch: 237558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237556

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	74.2		mg/L		99	80 - 120		

Method: SM 5220D - COD (Continued)

Lab Sample ID: MB 580-238100/3-A
Matrix: Water
Analysis Batch: 238102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 238100

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 12:00	1

Lab Sample ID: LCS 580-238100/4-A
Matrix: Water
Analysis Batch: 238102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 238100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	75.5		mg/L		101	80 - 120		

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-237559/3
Matrix: Water
Analysis Batch: 237559

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			01/31/17 20:14	1

Lab Sample ID: LCS 580-237559/4
Matrix: Water
Analysis Batch: 237559

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	8.57		mg/L		86	85 - 115		

Lab Sample ID: MB 580-237982/3
Matrix: Water
Analysis Batch: 237982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/07/17 20:47	1

Lab Sample ID: LCS 580-237982/4
Matrix: Water
Analysis Batch: 237982

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	9.88		mg/L		99	85 - 115		

Lab Sample ID: MB 580-238200/3
Matrix: Water
Analysis Batch: 238200

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/09/17 20:43	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-238200/4
Matrix: Water
Analysis Batch: 238200

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	11.0		mg/L		110	85 - 115

Lab Sample ID: 580-65692-14 MS
Matrix: Water
Analysis Batch: 238200

Client Sample ID: 0117-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.9		10.0	13.3		mg/L		114	85 - 115

Lab Sample ID: 580-65692-14 MSD
Matrix: Water
Analysis Batch: 238200

Client Sample ID: 0117-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.9		10.0	13.2		mg/L		113	85 - 115	1	20

Lab Sample ID: 580-65692-14 DU
Matrix: Water
Analysis Batch: 238200

Client Sample ID: 0117-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.9		1.85		mg/L		0.3	20

Client Sample ID: 0117-95
Date Collected: 01/25/17 10:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 01:44	TL1	TAL SEA

Client Sample ID: 0117-98
Date Collected: 01/25/17 11:05
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 02:09	TL1	TAL SEA

Client Sample ID: 0117-01
Date Collected: 01/25/17 11:40
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 02:35	TL1	TAL SEA
Dissolved	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 13:30	HJM	TAL SEA
Total Recoverable	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 15:01	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237860	02/03/17 16:06	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:20	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-97
Date Collected: 01/25/17 13:08
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 03:00	TL1	TAL SEA

Client Sample ID: 0117-96
Date Collected: 01/25/17 14:05
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 03:25	TL1	TAL SEA

Client Sample ID: 0117-05

Lab Sample ID: 580-65692-6

Date Collected: 01/25/17 14:45

Matrix: Water

Date Received: 01/28/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 03:51	TL1	TAL SEA
Dissolved	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 13:55	HJM	TAL SEA
Total Recoverable	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 15:05	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 14:24	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:22	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-10

Lab Sample ID: 580-65692-7

Date Collected: 01/25/17 16:00

Matrix: Water

Date Received: 01/28/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 04:16	TL1	TAL SEA
Dissolved	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 13:58	HJM	TAL SEA
Total Recoverable	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 15:10	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 15:10	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:23	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			237556	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5220D		1	237558	02/01/17 09:45	RSB	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-11

Lab Sample ID: 580-65692-8

Date Collected: 01/25/17 16:48

Matrix: Water

Date Received: 01/28/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 04:41	TL1	TAL SEA
Dissolved	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-11

Date Collected: 01/25/17 16:48
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	237839	02/03/17 14:01	HJM	TAL SEA
Total Recoverable	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 15:14	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 15:26	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:24	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-03

Date Collected: 01/25/17 10:25
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 05:07	TL1	TAL SEA
Dissolved	Prep	3005A			237713	02/02/17 15:37	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 14:05	HJM	TAL SEA
Total Recoverable	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Total Recoverable	Analysis	6020A		5	238122	02/09/17 14:43	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 15:41	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:25	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	237559	01/31/17 20:14	Z1T	TAL SEA

Client Sample ID: 0117-04

Date Collected: 01/25/17 11:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 05:32	TL1	TAL SEA
Dissolved	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Dissolved	Analysis	6010C		1	238039	02/08/17 16:12	HJM	TAL SEA
Total Recoverable	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-04

Date Collected: 01/25/17 11:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	237847	02/03/17 15:59	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 15:57	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:26	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	237982	02/07/17 20:47	Z1T	TAL SEA

Client Sample ID: 0117-23

Date Collected: 01/25/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 05:57	TL1	TAL SEA
Dissolved	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/04/17 00:13	HJM	TAL SEA
Total Recoverable	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 15:54	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 16:12	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:27	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	237982	02/07/17 20:47	Z1T	TAL SEA

Client Sample ID: 0117-22

Date Collected: 01/25/17 13:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 06:23	TL1	TAL SEA
Dissolved	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/04/17 00:17	HJM	TAL SEA
Total Recoverable	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 16:39	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 16:27	RSB	TAL SEA

Client Sample ID: 0117-22

Lab Sample ID: 580-65692-12

Date Collected: 01/25/17 13:50

Matrix: Water

Date Received: 01/28/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:34	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	237982	02/07/17 20:47	Z1T	TAL SEA

Client Sample ID: 0117-24

Lab Sample ID: 580-65692-13

Date Collected: 01/25/17 14:35

Matrix: Water

Date Received: 01/28/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 06:48	TL1	TAL SEA
Dissolved	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/04/17 00:20	HJM	TAL SEA
Total Recoverable	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 16:44	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 16:43	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:39	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-12

Lab Sample ID: 580-65692-14

Date Collected: 01/25/17 15:30

Matrix: Water

Date Received: 01/28/17 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 07:13	TL1	TAL SEA
Dissolved	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/04/17 00:23	HJM	TAL SEA
Total Recoverable	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 16:48	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 17:29	RSB	TAL SEA
Total/NA	Analysis	300.0		10	237898	02/07/17 09:36	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-12

Date Collected: 01/25/17 15:30
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		40	238152	02/10/17 12:53	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-25

Date Collected: 01/25/17 16:20
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	237944	02/08/17 07:39	TL1	TAL SEA
Dissolved	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 22:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			237730	02/03/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 16:53	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 17:44	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:41	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-09

Date Collected: 01/26/17 09:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 17:54	W1T	TAL SEA
Dissolved	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 23:13	HJM	TAL SEA
Total Recoverable	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 16:57	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 18:00	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:45	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-09

Date Collected: 01/26/17 09:50
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-08

Date Collected: 01/26/17 11:01
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 18:19	W1T	TAL SEA
Dissolved	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 23:16	HJM	TAL SEA
Total Recoverable	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 17:02	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 18:15	RSB	TAL SEA
Total/NA	Analysis	300.0		10	237898	02/07/17 09:52	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:46	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-17

Date Collected: 01/26/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 18:45	W1T	TAL SEA
Dissolved	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 23:20	HJM	TAL SEA
Total Recoverable	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 17:06	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 18:31	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:47	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-17

Date Collected: 01/26/17 13:00
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-18

Date Collected: 01/26/17 14:10
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 19:11	W1T	TAL SEA
Dissolved	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 23:23	HJM	TAL SEA
Total Recoverable	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	237847	02/03/17 17:11	HJM	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 18:46	RSB	TAL SEA
Total/NA	Analysis	300.0		10	237898	02/07/17 10:07	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:48	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-30

Date Collected: 01/26/17 15:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 19:37	W1T	TAL SEA
Dissolved	Prep	3005A			237733	02/03/17 09:15	ADB	TAL SEA
Dissolved	Analysis	6010C		1	237839	02/03/17 23:26	HJM	TAL SEA
Total Recoverable	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Total Recoverable	Analysis	6020A		5	238122	02/09/17 15:23	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 19:01	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:50	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Client Sample ID: 0117-30

Date Collected: 01/26/17 15:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-29

Date Collected: 01/26/17 16:45
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 20:03	W1T	TAL SEA
Dissolved	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Dissolved	Analysis	6010C		1	238039	02/08/17 16:15	HJM	TAL SEA
Total Recoverable	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Total Recoverable	Analysis	6020A		5	238122	02/09/17 15:28	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 19:17	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237521	01/31/17 14:40	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237468	01/31/17 15:17	EMM	TAL SEA
Total/NA	Analysis	353.2		5	238021	02/08/17 13:51	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237654	02/02/17 11:57	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237437	01/31/17 09:39	EMM	TAL SEA
Total/NA	Prep	SM 5220			238100	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238102	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: TRIP BLANK

Date Collected: 01/26/17 00:01
Date Received: 01/28/17 16:00

Lab Sample ID: 580-65692-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238357	02/14/17 16:10	W1T	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2540C		Water	Total Dissolved Solids

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupville Island Co.Solid Waste Facility

TestAmerica Job ID: 580-65692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-65692-1	0117-95	Water	01/25/17 10:00	01/28/17 16:00
580-65692-2	0117-98	Water	01/25/17 11:05	01/28/17 16:00
580-65692-3	0117-01	Water	01/25/17 11:40	01/28/17 16:00
580-65692-4	0117-97	Water	01/25/17 13:08	01/28/17 16:00
580-65692-5	0117-96	Water	01/25/17 14:05	01/28/17 16:00
580-65692-6	0117-05	Water	01/25/17 14:45	01/28/17 16:00
580-65692-7	0117-10	Water	01/25/17 16:00	01/28/17 16:00
580-65692-8	0117-11	Water	01/25/17 16:48	01/28/17 16:00
580-65692-9	0117-03	Water	01/25/17 10:25	01/28/17 16:00
580-65692-10	0117-04	Water	01/25/17 11:20	01/28/17 16:00
580-65692-11	0117-23	Water	01/25/17 13:00	01/28/17 16:00
580-65692-12	0117-22	Water	01/25/17 13:50	01/28/17 16:00
580-65692-13	0117-24	Water	01/25/17 14:35	01/28/17 16:00
580-65692-14	0117-12	Water	01/25/17 15:30	01/28/17 16:00
580-65692-15	0117-25	Water	01/25/17 16:20	01/28/17 16:00
580-65692-16	0117-09	Water	01/26/17 09:50	01/28/17 16:00
580-65692-17	0117-08	Water	01/26/17 11:01	01/28/17 16:00
580-65692-18	0117-17	Water	01/26/17 13:00	01/28/17 16:00
580-65692-19	0117-18	Water	01/26/17 14:10	01/28/17 16:00
580-65692-20	0117-30	Water	01/26/17 15:45	01/28/17 16:00
580-65692-21	0117-29	Water	01/26/17 16:45	01/28/17 16:00
580-65692-22	TRIP BLANK	Water	01/26/17 00:01	01/28/17 16:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

Loc: 580
65692

☐ Rush
☐ Short Hold

Chain of Custody Record

Client: SCS Engineers	Client Contact: Dan Uencharuth.	Date: 1/27/17	Chain of Custody Number: 33171
Address: 2405 140th Ave NE Suite 107	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 2
City: Bellevue / State: WA / Zip Code: 98005	Sampler: Sam G.	Lab Contact: Cathy Gamble	Analysis (Attach list if more space is needed)
Project Name and Location (State): Island Co, Solid Waste Facility	Billing Contact: Dan V.		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260B_LL	TDS	Cl, F, SO4	Nitrate (as N)	Special Instructions/ Conditions of Receipt
0117-95	1/25/17	1000		X						3			X	X	X	X	X	X	X	X	X	X	* VOC only
0117-98		1105								3													* VOC only
0117-01		1140					3	4	2	6													
0117-97		1308								3													* VOC only
0117-96		1405								3													* VOC only
0117-05		1445					3	4	2	6													
0117-10		1600					3	4	2	6													
0117-11		1648					3	4	2	6													
0117-03		1025					3	4	2	6													
0117-04		1120					3	4	2	6													
0117-23		1300					3	4	2	6													
0117-22		1350					3	4	2	6													

580-65692 Chain of Custody

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Sign/Print	Date	Time
1. Relinquished By	Sam Grabar	1/27/17	830
2. Relinquished By			
3. Relinquished By			
1. Received By	Francisco Luna, Jr	1/27/17	1600
2. Received By			
3. Received By			

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274 (0210)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client: SCS Engineers	Client Contact: Dan Venchiarutti	Date: 1/27/17	Chain of Custody Number: 33172
Address: 2405 140th Ave NE Suite 107	Telephone Number (Area Code)/Fax Number	Lab Number	Page 2 of 2
City: Bellevue / State: WA / Zip Code: 98005	Sampler: Sam G.	Lab Contact: Cathy Gamble	
Project Name and Location (State): Cowlitz Solid Waste Facility	Billing Contact: Dan V.		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260B_LL	TDS	Cl, F, SO4	Nitrate Combo
0117-24	1/25/17	1435		X			3	4	2	6			X	X	X	X	X	X	X	X	X	X
0117-12	↓	1530		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
0117-25	↓	1620																				
0117-09	1/26/17	950																				
0117-08	↓	1101																				
0117-17		1300																				
0117-18 *		1410					2	2	2	3												
0117-30		1545					3	4	2	6												
0117-29 *	↓	1645					2	2	2	3												
Trip blank	—	—		↓						6									↓			

Special Instructions/ Conditions of Receipt:
* Consolidated bottles for "0117-18" for time constraint issues. Same for "0117-29"

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Sam Gabber	1/27/17	830	1. Received By Sign/Print: Francisco Luna, Jr.	1/27/17	1600
2. Relinquished By Sign/Print:	Date	Time: 0	2. Received By Sign/Print:	Date	Time
3. Relinquished By Sign/Print:	Date	Time	3. Received By Sign/Print:	Date	Time

Comments:

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274 (0210)

4/4/2017

TB A2 Cooler Cor 3.6 Unc 4.5
Cooler Dsc Lg Blue/white @Lab —
Wet/Packs Packing Bubble
w/o

TB A2 Cooler Cor 4.7 Unc 5.2
Cooler Dsc Lg Blue/white @Lab —
Wet/Packs Packing Bubble
w/o

TB A2 Cooler Cor 3.5 Unc 4.4
Cooler Dsc Lg Blue/white @Lab —
Wet/Packs Packing Bubble
w/o

TB A2 Cooler Cor 4.0 Unc 4.4
Cooler Dsc Lg Blue/white @Lab —
Wet/Packs Packing Bubble
w/o

TB A2 Cooler Cor 0.5 Unc 1.4
Cooler Dsc Lg Blue/white @Lab —
Wet/Packs Packing Bubble
w/o

TB A2 Cooler Cor 2.4 Unc 3.3
Cooler Dsc Lg Blue/white @Lab —
Wet/Packs Packing Bubble
w/o

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-65692-1

Login Number: 65692
List Number: 1
Creator: Gall, Brandon A

List Source: TestAmerica Seattle

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

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-65746-1
Client Project/Site: Island Co. Solid Waste Facility Groundwa
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
4/5/2017 2:56:00 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

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

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Job ID: 580-65746-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 1/30/2017 1:51 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.5º C and 1.9º C.

GC/MS VOA
Method(s) 8260C: Reanalysis of the following samples was performed outside of the analytical holding time due failing QC in the initial run and necessary instrument maintenance. 0117-99 (580-65746-3) and 0117-100 (580-65746-4). Qualified data have been reported.

Method(s) 8260C: The following samples were reanalyzed in batch 238280 to check for contamination of Acetone. Because this run was in hold, results are reported as primary. 0117-99 (580-65746-3) and 0117-100 (580-65746-4)

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-238138 recovered outside control limits for the following analytes: Acetone, 2-Butanone, 1,1,2,2-Tetrachloroethane and Acrylonitrile. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-238138 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0117-27 (580-65746-1), 0117-28 (580-65746-2), 0117-99 (580-65746-3), 0117-100 (580-65746-4), Trip Blank (580-65746-5) and (CCVIS 580-238138/6).

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

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

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

Definitions/Glossary

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client Sample ID: 0117-27
Date Collected: 01/27/17 09:46
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/10/17 19:21	1
Vinyl chloride	ND		0.020		ug/L			02/10/17 19:21	1
Bromomethane	ND		1.0		ug/L			02/10/17 19:21	1
Chloroethane	ND		0.50		ug/L			02/10/17 19:21	1
Trichlorofluoromethane	ND		0.50		ug/L			02/10/17 19:21	1
1,1-Dichloroethene	ND		0.10		ug/L			02/10/17 19:21	1
Methyl iodide	ND		0.50		ug/L			02/10/17 19:21	1
Carbon disulfide	ND		0.20		ug/L			02/10/17 19:21	1
Acetone	ND	*	2.0		ug/L			02/10/17 19:21	1
Methylene Chloride	ND		0.50		ug/L			02/10/17 19:21	1
Acrylonitrile	ND	*	5.0		ug/L			02/10/17 19:21	1
Vinyl acetate	ND		1.0		ug/L			02/10/17 19:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 19:21	1
1,1-Dichloroethane	ND		0.20		ug/L			02/10/17 19:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 19:21	1
2-Butanone	ND	*	15		ug/L			02/10/17 19:21	1
Bromochloromethane	ND		0.20		ug/L			02/10/17 19:21	1
Chloroform	ND		0.20		ug/L			02/10/17 19:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/10/17 19:21	1
Carbon tetrachloride	ND		0.20		ug/L			02/10/17 19:21	1
Benzene	ND		0.20		ug/L			02/10/17 19:21	1
1,2-Dichloroethane	ND		0.20		ug/L			02/10/17 19:21	1
Trichloroethene	ND		0.20		ug/L			02/10/17 19:21	1
1,2-Dichloropropane	ND		0.20		ug/L			02/10/17 19:21	1
Dibromomethane	ND		0.20		ug/L			02/10/17 19:21	1
Bromodichloromethane	ND		0.20		ug/L			02/10/17 19:21	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/10/17 19:21	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/10/17 19:21	1
Toluene	ND		0.20		ug/L			02/10/17 19:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/10/17 19:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/10/17 19:21	1
Tetrachloroethene	ND		0.50		ug/L			02/10/17 19:21	1
2-Hexanone	ND		2.0		ug/L			02/10/17 19:21	1
Dibromochloromethane	ND		0.20		ug/L			02/10/17 19:21	1
1,2-Dibromoethane	ND		0.10		ug/L			02/10/17 19:21	1
Chlorobenzene	ND		0.20		ug/L			02/10/17 19:21	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 19:21	1
Ethylbenzene	ND		0.20		ug/L			02/10/17 19:21	1
m,p-Xylene	ND		0.50		ug/L			02/10/17 19:21	1
o-Xylene	ND		0.50		ug/L			02/10/17 19:21	1
Styrene	ND		0.50		ug/L			02/10/17 19:21	1
Bromoform	ND		0.50		ug/L			02/10/17 19:21	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/10/17 19:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/10/17 19:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/10/17 19:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/10/17 19:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/10/17 19:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/10/17 19:21	1

Client Sample ID: 0117-27
Date Collected: 01/27/17 09:46
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*02/10/17 19:21*	*1*
Trifluorotoluene (Surr)	*75*		*74 - 118*		*02/10/17 19:21*	*1*
Dibromofluoromethane (Surr)	*110*		*42 - 132*		*02/10/17 19:21*	*1*
4-Bromofluorobenzene (Surr)	*109*		*81 - 120*		*02/10/17 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*02/10/17 19:21*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		02/08/17 09:06	02/08/17 16:18	1
Iron	ND		0.30		mg/L		02/08/17 09:06	02/08/17 16:18	1
Magnesium	**55**		1.1		mg/L		02/08/17 09:06	02/08/17 16:18	1
Manganese	**0.18**		0.020		mg/L		02/08/17 09:06	02/08/17 16:18	1
Potassium	**8.1**		3.3		mg/L		02/08/17 09:06	02/08/17 16:18	1
Sodium	**36**		2.0		mg/L		02/08/17 09:06	02/08/17 16:18	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Arsenic	**0.013**		0.0050		mg/L		02/08/17 09:06	02/09/17 15:32	5
Barium	**0.047**		0.0060		mg/L		02/08/17 09:06	02/09/17 15:32	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Chromium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Copper	ND		0.010		mg/L		02/08/17 09:06	02/09/17 15:32	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 15:32	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:32	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:32	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 15:32	5
Zinc	ND		0.035		mg/L		02/08/17 09:06	02/09/17 15:32	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 19:32	1
Chloride	**66**		0.90		mg/L			02/06/17 19:32	1
Sulfate	**25**		1.2		mg/L			02/06/17 19:32	1
Ammonia	ND		0.20		mg/L		02/03/17 10:42	02/04/17 14:00	1
Nitrate Nitrite as N	ND	F1	0.050		mg/L			02/08/17 13:52	1
Alkalinity	**370**		5.0		mg/L			02/07/17 11:59	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			02/07/17 11:59	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/07/17 11:59	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/07/17 11:59	1
Total Dissolved Solids	**530**		10	10	mg/L			02/02/17 15:23	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 16:38	1
Total Organic Carbon	**1.8**		1.0		mg/L			02/09/17 20:43	1

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Client Sample ID: 0117-28
Date Collected: 01/27/17 10:35
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/10/17 19:47	1
Vinyl chloride	ND		0.020		ug/L			02/10/17 19:47	1
Bromomethane	ND		1.0		ug/L			02/10/17 19:47	1
Chloroethane	ND		0.50		ug/L			02/10/17 19:47	1
Trichlorofluoromethane	ND		0.50		ug/L			02/10/17 19:47	1
1,1-Dichloroethene	ND		0.10		ug/L			02/10/17 19:47	1
Methyl iodide	ND		0.50		ug/L			02/10/17 19:47	1
Carbon disulfide	ND		0.20		ug/L			02/10/17 19:47	1
Acetone	ND	*	2.0		ug/L			02/10/17 19:47	1
Methylene Chloride	ND		0.50		ug/L			02/10/17 19:47	1
Acrylonitrile	ND	*	5.0		ug/L			02/10/17 19:47	1
Vinyl acetate	ND		1.0		ug/L			02/10/17 19:47	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 19:47	1
1,1-Dichloroethane	ND		0.20		ug/L			02/10/17 19:47	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 19:47	1
2-Butanone	ND	*	15		ug/L			02/10/17 19:47	1
Bromochloromethane	ND		0.20		ug/L			02/10/17 19:47	1
Chloroform	ND		0.20		ug/L			02/10/17 19:47	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/10/17 19:47	1
Carbon tetrachloride	ND		0.20		ug/L			02/10/17 19:47	1
Benzene	ND		0.20		ug/L			02/10/17 19:47	1
1,2-Dichloroethane	ND		0.20		ug/L			02/10/17 19:47	1
Trichloroethene	ND		0.20		ug/L			02/10/17 19:47	1
1,2-Dichloropropane	ND		0.20		ug/L			02/10/17 19:47	1
Dibromomethane	ND		0.20		ug/L			02/10/17 19:47	1
Bromodichloromethane	ND		0.20		ug/L			02/10/17 19:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/10/17 19:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/10/17 19:47	1
Toluene	ND		0.20		ug/L			02/10/17 19:47	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/10/17 19:47	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/10/17 19:47	1
Tetrachloroethene	ND		0.50		ug/L			02/10/17 19:47	1
2-Hexanone	ND		2.0		ug/L			02/10/17 19:47	1
Dibromochloromethane	ND		0.20		ug/L			02/10/17 19:47	1
1,2-Dibromoethane	ND		0.10		ug/L			02/10/17 19:47	1
Chlorobenzene	ND		0.20		ug/L			02/10/17 19:47	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 19:47	1
Ethylbenzene	ND		0.20		ug/L			02/10/17 19:47	1
m,p-Xylene	ND		0.50		ug/L			02/10/17 19:47	1
o-Xylene	ND		0.50		ug/L			02/10/17 19:47	1
Styrene	ND		0.50		ug/L			02/10/17 19:47	1
Bromoform	ND		0.50		ug/L			02/10/17 19:47	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/10/17 19:47	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/10/17 19:47	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/10/17 19:47	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/10/17 19:47	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/10/17 19:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/10/17 19:47	1

Client Sample ID: 0117-28
Date Collected: 01/27/17 10:35
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*02/10/17 19:47*	*1*
Trifluorotoluene (Surr)	*75*		*74 - 118*		*02/10/17 19:47*	*1*
Dibromofluoromethane (Surr)	*111*		*42 - 132*		*02/10/17 19:47*	*1*
4-Bromofluorobenzene (Surr)	*109*		*81 - 120*		*02/10/17 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*02/10/17 19:47*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**73**		1.1		mg/L		02/08/17 09:06	02/08/17 16:22	1
Iron	ND		0.30		mg/L		02/08/17 09:06	02/08/17 16:22	1
Magnesium	**44**		1.1		mg/L		02/08/17 09:06	02/08/17 16:22	1
Manganese	ND		0.020		mg/L		02/08/17 09:06	02/08/17 16:22	1
Potassium	**6.0**		3.3		mg/L		02/08/17 09:06	02/08/17 16:22	1
Sodium	**33**		2.0		mg/L		02/08/17 09:06	02/08/17 16:22	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Arsenic	**0.0067**		0.0050		mg/L		02/08/17 09:06	02/09/17 15:37	5
Barium	**0.024**		0.0060		mg/L		02/08/17 09:06	02/09/17 15:37	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Chromium	**0.0087**		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Copper	ND		0.010		mg/L		02/08/17 09:06	02/09/17 15:37	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 15:37	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:37	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 15:37	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 15:37	5
Zinc	ND		0.035		mg/L		02/08/17 09:06	02/09/17 15:37	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 19:48	1
Chloride	**61**		0.90		mg/L			02/06/17 19:48	1
Sulfate	**38**		1.2		mg/L			02/06/17 19:48	1
Ammonia	ND		0.20		mg/L		02/03/17 10:42	02/07/17 14:00	1
Nitrate Nitrite as N	**1.3**		0.050		mg/L			02/08/17 13:56	1
Alkalinity	**310**		5.0		mg/L			02/07/17 11:59	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			02/07/17 11:59	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			02/07/17 11:59	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			02/07/17 11:59	1
Total Dissolved Solids	**500**		10	10	mg/L			02/02/17 15:23	1
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 16:38	1
Total Organic Carbon	**1.7**		1.0		mg/L			02/09/17 07:50	1

Client Sample ID: 0117-99
Date Collected: 01/27/17 12:16
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/10/17 20:13	1
Vinyl chloride	ND		0.020		ug/L			02/10/17 20:13	1
Bromomethane	ND		1.0		ug/L			02/10/17 20:13	1
Chloroethane	ND		0.50		ug/L			02/10/17 20:13	1
Trichlorofluoromethane	ND		0.50		ug/L			02/10/17 20:13	1
1,1-Dichloroethene	ND		0.10		ug/L			02/10/17 20:13	1
Methyl iodide	ND		0.50		ug/L			02/10/17 20:13	1
Carbon disulfide	ND		0.20		ug/L			02/10/17 20:13	1
Acetone	**4.2**	**B ***	2.0		ug/L			02/10/17 20:13	1
Methylene Chloride	ND		0.50		ug/L			02/10/17 20:13	1
Acrylonitrile	ND	*	5.0		ug/L			02/10/17 20:13	1
Vinyl acetate	ND		1.0		ug/L			02/10/17 20:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 20:13	1
1,1-Dichloroethane	ND		0.20		ug/L			02/10/17 20:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 20:13	1
2-Butanone	ND	*	15		ug/L			02/10/17 20:13	1
Bromochloromethane	ND		0.20		ug/L			02/10/17 20:13	1
Chloroform	ND		0.20		ug/L			02/10/17 20:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/10/17 20:13	1
Carbon tetrachloride	ND		0.20		ug/L			02/10/17 20:13	1
Benzene	ND		0.20		ug/L			02/10/17 20:13	1
1,2-Dichloroethane	ND		0.20		ug/L			02/10/17 20:13	1
Trichloroethene	ND		0.20		ug/L			02/10/17 20:13	1
1,2-Dichloropropane	ND		0.20		ug/L			02/10/17 20:13	1
Dibromomethane	ND		0.20		ug/L			02/10/17 20:13	1
Bromodichloromethane	ND		0.20		ug/L			02/10/17 20:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/10/17 20:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/10/17 20:13	1
Toluene	ND		0.20		ug/L			02/10/17 20:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/10/17 20:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/10/17 20:13	1
Tetrachloroethene	ND		0.50		ug/L			02/10/17 20:13	1
2-Hexanone	ND		2.0		ug/L			02/10/17 20:13	1
Dibromochloromethane	ND		0.20		ug/L			02/10/17 20:13	1
1,2-Dibromoethane	ND		0.10		ug/L			02/10/17 20:13	1
Chlorobenzene	ND		0.20		ug/L			02/10/17 20:13	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 20:13	1
Ethylbenzene	ND		0.20		ug/L			02/10/17 20:13	1
m,p-Xylene	ND		0.50		ug/L			02/10/17 20:13	1
o-Xylene	ND		0.50		ug/L			02/10/17 20:13	1
Styrene	ND		0.50		ug/L			02/10/17 20:13	1
Bromoform	ND		0.50		ug/L			02/10/17 20:13	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/10/17 20:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/10/17 20:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/10/17 20:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/10/17 20:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/10/17 20:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/10/17 20:13	1

Client Sample ID: 0117-99
Date Collected: 01/27/17 12:16
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*02/10/17 20:13*	*1*
Trifluorotoluene (Surr)	*76*		*74 - 118*		*02/10/17 20:13*	*1*
Dibromofluoromethane (Surr)	*112*		*42 - 132*		*02/10/17 20:13*	*1*
4-Bromofluorobenzene (Surr)	*109*		*81 - 120*		*02/10/17 20:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*02/10/17 20:13*	*1*

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			02/13/17 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/13/17 20:27*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*02/13/17 20:27*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*02/13/17 20:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*02/13/17 20:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*02/13/17 20:27*	*1*

Client Sample ID: 0117-100
Date Collected: 01/27/17 13:26
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/10/17 20:39	1
Vinyl chloride	ND		0.020		ug/L			02/10/17 20:39	1
Bromomethane	ND		1.0		ug/L			02/10/17 20:39	1
Chloroethane	ND		0.50		ug/L			02/10/17 20:39	1
Trichlorofluoromethane	ND		0.50		ug/L			02/10/17 20:39	1
1,1-Dichloroethene	ND		0.10		ug/L			02/10/17 20:39	1
Methyl iodide	ND		0.50		ug/L			02/10/17 20:39	1
Carbon disulfide	ND		0.20		ug/L			02/10/17 20:39	1
Acetone	**7.8**	**B ***	2.0		ug/L			02/10/17 20:39	1
Methylene Chloride	ND		0.50		ug/L			02/10/17 20:39	1
Acrylonitrile	ND	*	5.0		ug/L			02/10/17 20:39	1
Vinyl acetate	ND		1.0		ug/L			02/10/17 20:39	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 20:39	1
1,1-Dichloroethane	ND		0.20		ug/L			02/10/17 20:39	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 20:39	1
2-Butanone	ND	*	15		ug/L			02/10/17 20:39	1
Bromochloromethane	ND		0.20		ug/L			02/10/17 20:39	1
Chloroform	ND		0.20		ug/L			02/10/17 20:39	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/10/17 20:39	1
Carbon tetrachloride	ND		0.20		ug/L			02/10/17 20:39	1
Benzene	ND		0.20		ug/L			02/10/17 20:39	1
1,2-Dichloroethane	ND		0.20		ug/L			02/10/17 20:39	1
Trichloroethene	ND		0.20		ug/L			02/10/17 20:39	1
1,2-Dichloropropane	ND		0.20		ug/L			02/10/17 20:39	1
Dibromomethane	ND		0.20		ug/L			02/10/17 20:39	1
Bromodichloromethane	ND		0.20		ug/L			02/10/17 20:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/10/17 20:39	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/10/17 20:39	1
Toluene	ND		0.20		ug/L			02/10/17 20:39	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/10/17 20:39	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/10/17 20:39	1
Tetrachloroethene	ND		0.50		ug/L			02/10/17 20:39	1
2-Hexanone	ND		2.0		ug/L			02/10/17 20:39	1
Dibromochloromethane	ND		0.20		ug/L			02/10/17 20:39	1
1,2-Dibromoethane	ND		0.10		ug/L			02/10/17 20:39	1
Chlorobenzene	ND		0.20		ug/L			02/10/17 20:39	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 20:39	1
Ethylbenzene	ND		0.20		ug/L			02/10/17 20:39	1
m,p-Xylene	ND		0.50		ug/L			02/10/17 20:39	1
o-Xylene	ND		0.50		ug/L			02/10/17 20:39	1
Styrene	ND		0.50		ug/L			02/10/17 20:39	1
Bromoform	ND		0.50		ug/L			02/10/17 20:39	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/10/17 20:39	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/10/17 20:39	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/10/17 20:39	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/10/17 20:39	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/10/17 20:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/10/17 20:39	1

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Client Sample ID: 0117-100
Date Collected: 01/27/17 13:26
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*75 - 125*		*02/10/17 20:39*	*1*
Trifluorotoluene (Surr)	*76*		*74 - 118*		*02/10/17 20:39*	*1*
Dibromofluoromethane (Surr)	*112*		*42 - 132*		*02/10/17 20:39*	*1*
4-Bromofluorobenzene (Surr)	*110*		*81 - 120*		*02/10/17 20:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*02/10/17 20:39*	*1*

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	2.0		ug/L			02/13/17 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*75 - 125*		*02/13/17 20:53*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*02/13/17 20:53*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*02/13/17 20:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*02/13/17 20:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*02/13/17 20:53*	*1*

Client Sample ID: Trip Blank
Date Collected: 01/27/17 00:01
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/10/17 18:04	1
Vinyl chloride	ND		0.020		ug/L			02/10/17 18:04	1
Bromomethane	ND		1.0		ug/L			02/10/17 18:04	1
Chloroethane	ND		0.50		ug/L			02/10/17 18:04	1
Trichlorofluoromethane	ND		0.50		ug/L			02/10/17 18:04	1
1,1-Dichloroethene	ND		0.10		ug/L			02/10/17 18:04	1
Methyl iodide	ND		0.50		ug/L			02/10/17 18:04	1
Carbon disulfide	ND		0.20		ug/L			02/10/17 18:04	1
Acetone	ND	*	2.0		ug/L			02/10/17 18:04	1
Methylene Chloride	ND		0.50		ug/L			02/10/17 18:04	1
Acrylonitrile	ND	*	5.0		ug/L			02/10/17 18:04	1
Vinyl acetate	ND		1.0		ug/L			02/10/17 18:04	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 18:04	1
1,1-Dichloroethane	ND		0.20		ug/L			02/10/17 18:04	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 18:04	1
2-Butanone	ND	*	15		ug/L			02/10/17 18:04	1
Bromochloromethane	ND		0.20		ug/L			02/10/17 18:04	1
Chloroform	ND		0.20		ug/L			02/10/17 18:04	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/10/17 18:04	1
Carbon tetrachloride	ND		0.20		ug/L			02/10/17 18:04	1
Benzene	ND		0.20		ug/L			02/10/17 18:04	1
1,2-Dichloroethane	ND		0.20		ug/L			02/10/17 18:04	1
Trichloroethene	ND		0.20		ug/L			02/10/17 18:04	1
1,2-Dichloropropane	ND		0.20		ug/L			02/10/17 18:04	1
Dibromomethane	ND		0.20		ug/L			02/10/17 18:04	1
Bromodichloromethane	ND		0.20		ug/L			02/10/17 18:04	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/10/17 18:04	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/10/17 18:04	1
Toluene	ND		0.20		ug/L			02/10/17 18:04	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/10/17 18:04	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/10/17 18:04	1
Tetrachloroethene	ND		0.50		ug/L			02/10/17 18:04	1
2-Hexanone	ND		2.0		ug/L			02/10/17 18:04	1
Dibromochloromethane	ND		0.20		ug/L			02/10/17 18:04	1
1,2-Dibromoethane	ND		0.10		ug/L			02/10/17 18:04	1
Chlorobenzene	ND		0.20		ug/L			02/10/17 18:04	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 18:04	1
Ethylbenzene	ND		0.20		ug/L			02/10/17 18:04	1
m,p-Xylene	ND		0.50		ug/L			02/10/17 18:04	1
o-Xylene	ND		0.50		ug/L			02/10/17 18:04	1
Styrene	ND		0.50		ug/L			02/10/17 18:04	1
Bromoform	ND		0.50		ug/L			02/10/17 18:04	1
1,1,2,2-Tetrachloroethane	ND	*	0.20		ug/L			02/10/17 18:04	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/10/17 18:04	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/10/17 18:04	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/10/17 18:04	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/10/17 18:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/10/17 18:04	1

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Client Sample ID: Trip Blank
Date Collected: 01/27/17 00:01
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		75 - 125		02/10/17 18:04	1
Trifluorotoluene (Surr)	75		74 - 118		02/10/17 18:04	1
Dibromofluoromethane (Surr)	111		42 - 132		02/10/17 18:04	1
4-Bromofluorobenzene (Surr)	109		81 - 120		02/10/17 18:04	1
1,2-Dichloroethane-d4 (Surr)	107		46 - 150		02/10/17 18:04	1

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

Lab Sample ID: MB 580-238138/8
Matrix: Water
Analysis Batch: 238138

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			02/10/17 16:46	1
Vinyl chloride	ND		0.020		ug/L			02/10/17 16:46	1
Bromomethane	ND		1.0		ug/L			02/10/17 16:46	1
Chloroethane	ND		0.50		ug/L			02/10/17 16:46	1
Trichlorofluoromethane	ND		0.50		ug/L			02/10/17 16:46	1
1,1-Dichloroethene	ND		0.10		ug/L			02/10/17 16:46	1
Methyl iodide	ND		0.50		ug/L			02/10/17 16:46	1
Carbon disulfide	ND		0.20		ug/L			02/10/17 16:46	1
Acetone	6.94		2.0		ug/L			02/10/17 16:46	1
Methylene Chloride	ND		0.50		ug/L			02/10/17 16:46	1
Acrylonitrile	ND		5.0		ug/L			02/10/17 16:46	1
Vinyl acetate	ND		1.0		ug/L			02/10/17 16:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 16:46	1
1,1-Dichloroethane	ND		0.20		ug/L			02/10/17 16:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/10/17 16:46	1
2-Butanone	ND		15		ug/L			02/10/17 16:46	1
Bromochloromethane	ND		0.20		ug/L			02/10/17 16:46	1
Chloroform	ND		0.20		ug/L			02/10/17 16:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/10/17 16:46	1
Carbon tetrachloride	ND		0.20		ug/L			02/10/17 16:46	1
Benzene	ND		0.20		ug/L			02/10/17 16:46	1
1,2-Dichloroethane	ND		0.20		ug/L			02/10/17 16:46	1
Trichloroethene	ND		0.20		ug/L			02/10/17 16:46	1
1,2-Dichloropropane	ND		0.20		ug/L			02/10/17 16:46	1
Dibromomethane	ND		0.20		ug/L			02/10/17 16:46	1
Bromodichloromethane	ND		0.20		ug/L			02/10/17 16:46	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			02/10/17 16:46	1
4-Methyl-2-pentanone	ND		5.0		ug/L			02/10/17 16:46	1
Toluene	ND		0.20		ug/L			02/10/17 16:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/10/17 16:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/10/17 16:46	1
Tetrachloroethene	ND		0.50		ug/L			02/10/17 16:46	1
2-Hexanone	ND		2.0		ug/L			02/10/17 16:46	1
Dibromochloromethane	ND		0.20		ug/L			02/10/17 16:46	1
1,2-Dibromoethane	ND		0.10		ug/L			02/10/17 16:46	1
Chlorobenzene	ND		0.20		ug/L			02/10/17 16:46	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 16:46	1
Ethylbenzene	ND		0.20		ug/L			02/10/17 16:46	1
m,p-Xylene	ND		0.50		ug/L			02/10/17 16:46	1
o-Xylene	ND		0.50		ug/L			02/10/17 16:46	1
Styrene	ND		0.50		ug/L			02/10/17 16:46	1
Bromoform	ND		0.50		ug/L			02/10/17 16:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/10/17 16:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/10/17 16:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/10/17 16:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/10/17 16:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/10/17 16:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/10/17 16:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*91*		*75 - 125*		*02/10/17 16:46*	*1*
Trifluorotoluene (Surr)	*77*		*74 - 118*		*02/10/17 16:46*	*1*
Dibromofluoromethane (Surr)	*110*		*42 - 132*		*02/10/17 16:46*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*		*02/10/17 16:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*02/10/17 16:46*	*1*

Lab Sample ID: LCS 580-238138/9
Matrix: Water
Analysis Batch: 238138

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.16		ug/L		103	40 - 150
Vinyl chloride	5.00	4.99		ug/L		100	59 - 140
Bromomethane	5.00	6.52		ug/L		130	61 - 135
Chloroethane	5.00	5.25		ug/L		105	58 - 130
Trichlorofluoromethane	5.00	4.85		ug/L		97	60 - 150
1,1-Dichloroethene	5.00	5.65		ug/L		113	64 - 125
Methyl iodide	5.00	5.47		ug/L		109	47 - 145
Carbon disulfide	5.00	5.04		ug/L		101	65 - 128
Acetone	25.0	55.8	*	ug/L		223	20 - 138
Methylene Chloride	5.00	4.27		ug/L		85	58 - 134
Acrylonitrile	50.0	73.9	*	ug/L		148	55 - 134
Vinyl acetate	12.5	17.7		ug/L		142	30 - 150
trans-1,2-Dichloroethene	5.00	4.88		ug/L		98	69 - 124
1,1-Dichloroethane	5.00	5.29		ug/L		106	68 - 135
cis-1,2-Dichloroethene	5.00	5.49		ug/L		110	73 - 130
2-Butanone	25.0	38.7	*	ug/L		155	30 - 150
Bromochloromethane	5.00	5.49		ug/L		110	71 - 131
Chloroform	5.00	5.43		ug/L		109	71 - 130
1,1,1-Trichloroethane	5.00	4.93		ug/L		99	56 - 150
Carbon tetrachloride	5.00	5.09		ug/L		102	54 - 150
Benzene	5.00	5.46		ug/L		109	73 - 120
1,2-Dichloroethane	5.00	5.60		ug/L		112	63 - 150
Trichloroethene	5.00	4.36		ug/L		87	72 - 123
1,2-Dichloropropane	5.00	5.51		ug/L		110	72 - 120
Dibromomethane	5.00	5.35		ug/L		107	65 - 137
Bromodichloromethane	5.00	5.57		ug/L		111	62 - 150
cis-1,3-Dichloropropene	5.00	4.97		ug/L		99	54 - 150
4-Methyl-2-pentanone	25.0	26.3		ug/L		105	36 - 150
Toluene	5.00	4.81		ug/L		96	70 - 126
trans-1,3-Dichloropropene	5.00	4.85		ug/L		97	40 - 150
1,1,2-Trichloroethane	5.00	4.74		ug/L		95	62 - 137
Tetrachloroethene	5.00	4.77		ug/L		95	67 - 123
2-Hexanone	25.0	25.8		ug/L		103	25 - 150
Dibromochloromethane	5.00	5.27		ug/L		105	46 - 150
1,2-Dibromoethane	5.00	4.90		ug/L		98	56 - 146
Chlorobenzene	5.00	5.02		ug/L		100	74 - 114
1,1,1,2-Tetrachloroethane	5.00	5.33		ug/L		107	68 - 139
Ethylbenzene	5.00	5.15		ug/L		103	74 - 125
m,p-Xylene	5.00	5.14		ug/L		103	73 - 130
o-Xylene	5.00	5.37		ug/L		107	80 - 139
Styrene	5.00	5.37		ug/L		107	68 - 136
Bromoform	5.00	5.73		ug/L		115	51 - 137
1,1,2,2-Tetrachloroethane	5.00	8.98	*	ug/L		180	60 - 134

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

Lab Sample ID: LCS 580-238138/9
Matrix: Water
Analysis Batch: 238138

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	5.00	4.66		ug/L		93	45 - 150
trans-1,4-Dichloro-2-butene	5.00	6.95		ug/L		139	20 - 150
1,4-Dichlorobenzene	5.00	4.98		ug/L		100	77 - 120
1,2-Dichlorobenzene	5.00	4.95		ug/L		99	73 - 120
1,2-Dibromo-3-Chloropropane	5.00	6.33		ug/L		127	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*75 - 125*
Trifluorotoluene (Surr)	*75*		*74 - 118*
Dibromofluoromethane (Surr)	*111*		*42 - 132*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*

Lab Sample ID: LCSD 580-238138/10
Matrix: Water
Analysis Batch: 238138

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	5.00	5.04		ug/L		101	40 - 150	2	31
Vinyl chloride	5.00	4.97		ug/L		99	59 - 140	0	30
Bromomethane	5.00	6.36		ug/L		127	61 - 135	2	31
Chloroethane	5.00	5.54		ug/L		111	58 - 130	6	35
Trichlorofluoromethane	5.00	4.63		ug/L		93	60 - 150	5	31
1,1-Dichloroethene	5.00	5.86		ug/L		117	64 - 125	4	28
Methyl iodide	5.00	5.56		ug/L		111	47 - 145	2	35
Carbon disulfide	5.00	5.03		ug/L		101	65 - 128	0	32
Acetone	25.0	58.3	*	ug/L		233	20 - 138	4	35
Methylene Chloride	5.00	4.32		ug/L		86	58 - 134	1	29
Acrylonitrile	50.0	80.0	*	ug/L		160	55 - 134	8	35
Vinyl acetate	12.5	18.7		ug/L		149	30 - 150	5	35
trans-1,2-Dichloroethene	5.00	5.12		ug/L		102	69 - 124	5	27
1,1-Dichloroethane	5.00	5.47		ug/L		109	68 - 135	3	27
cis-1,2-Dichloroethene	5.00	5.38		ug/L		108	73 - 130	2	20
2-Butanone	25.0	42.4	*	ug/L		170	30 - 150	9	35
Bromochloromethane	5.00	5.50		ug/L		110	71 - 131	0	20
Chloroform	5.00	5.42		ug/L		108	71 - 130	0	20
1,1,1-Trichloroethane	5.00	4.74		ug/L		95	56 - 150	4	29
Carbon tetrachloride	5.00	4.99		ug/L		100	54 - 150	2	30
Benzene	5.00	5.37		ug/L		107	73 - 120	2	20
1,2-Dichloroethane	5.00	5.63		ug/L		113	63 - 150	1	29
Trichloroethene	5.00	4.37		ug/L		87	72 - 123	0	20
1,2-Dichloropropane	5.00	5.42		ug/L		108	72 - 120	2	20
Dibromomethane	5.00	5.36		ug/L		107	65 - 137	0	20
Bromodichloromethane	5.00	5.53		ug/L		111	62 - 150	1	20
cis-1,3-Dichloropropene	5.00	4.96		ug/L		99	54 - 150	0	28
4-Methyl-2-pentanone	25.0	27.5		ug/L		110	36 - 150	4	34
Toluene	5.00	4.74		ug/L		95	70 - 126	1	20
trans-1,3-Dichloropropene	5.00	4.85		ug/L		97	40 - 150	0	30

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

Lab Sample ID: LCSD 580-238138/10
Matrix: Water
Analysis Batch: 238138

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			5.00	4.70		ug/L		94	62 - 137	1	30
Tetrachloroethene			5.00	4.69		ug/L		94	67 - 123	2	20
2-Hexanone			25.0	26.1		ug/L		104	25 - 150	1	28
Dibromochloromethane			5.00	5.22		ug/L		104	46 - 150	1	20
1,2-Dibromoethane			5.00	4.92		ug/L		98	56 - 146	0	20
Chlorobenzene			5.00	5.01		ug/L		100	74 - 114	0	12
1,1,1,2-Tetrachloroethane			5.00	5.26		ug/L		105	68 - 139	1	20
Ethylbenzene			5.00	5.08		ug/L		102	74 - 125	1	20
m,p-Xylene			5.00	5.07		ug/L		101	73 - 130	1	20
o-Xylene			5.00	5.28		ug/L		106	80 - 139	2	20
Styrene			5.00	5.31		ug/L		106	68 - 136	1	20
Bromoform			5.00	5.81		ug/L		116	51 - 137	1	20
1,1,2,2-Tetrachloroethane			5.00	8.94	*	ug/L		179	60 - 134	0	25
1,2,3-Trichloropropane			5.00	4.59		ug/L		92	45 - 150	2	20
trans-1,4-Dichloro-2-butene			5.00	6.90		ug/L		138	20 - 150	1	20
1,4-Dichlorobenzene			5.00	4.93		ug/L		99	77 - 120	1	11
1,2-Dichlorobenzene			5.00	4.86		ug/L		97	73 - 120	2	14
1,2-Dibromo-3-Chloropropane			5.00	6.62		ug/L		132	34 - 150	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*75 - 125*
Trifluorotoluene (Surr)	*74*		*74 - 118*
Dibromofluoromethane (Surr)	*111*		*42 - 132*
4-Bromofluorobenzene (Surr)	*109*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*

Lab Sample ID: MB 580-238280/4
Matrix: Water
Analysis Batch: 238280

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			02/13/17 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*75 - 125*		*02/13/17 12:52*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*02/13/17 12:52*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*02/13/17 12:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*02/13/17 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*02/13/17 12:52*	*1*

Lab Sample ID: LCS 580-238280/5
Matrix: Water
Analysis Batch: 238280

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone			25.0	25.0		ug/L		100	20 - 138

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

Lab Sample ID: LCS 580-238280/5
Matrix: Water
Analysis Batch: 238280

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*75 - 125*
Trifluorotoluene (Surr)	*95*		*74 - 118*
Dibromofluoromethane (Surr)	*101*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Lab Sample ID: LCSD 580-238280/6
Matrix: Water
Analysis Batch: 238280

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			25.0	27.1		ug/L		108	20 - 138	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*95*		*74 - 118*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-237974/14-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		02/08/17 09:06	02/08/17 15:38	1
Iron	ND		0.30		mg/L		02/08/17 09:06	02/08/17 15:38	1
Magnesium	ND		1.1		mg/L		02/08/17 09:06	02/08/17 15:38	1
Manganese	ND		0.020		mg/L		02/08/17 09:06	02/08/17 15:38	1
Potassium	ND		3.3		mg/L		02/08/17 09:06	02/08/17 15:38	1
Sodium	ND		2.0		mg/L		02/08/17 09:06	02/08/17 15:38	1

Lab Sample ID: LCS 580-237974/15-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	19.9		mg/L		99	80 - 120
Iron			22.0	20.3		mg/L		92	80 - 120
Magnesium			20.0	18.2		mg/L		91	80 - 120
Manganese			1.00	0.957		mg/L		96	80 - 120
Potassium			20.0	20.2		mg/L		101	80 - 120
Sodium			20.0	20.5		mg/L		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-237974/16-A
Matrix: Water
Analysis Batch: 238039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.0		mg/L		100	80 - 120	1	20
Iron	22.0	20.5		mg/L		93	80 - 120	1	20
Magnesium	20.0	18.4		mg/L		92	80 - 120	2	20
Manganese	1.00	0.969		mg/L		97	80 - 120	1	20
Potassium	20.0	20.5		mg/L		103	80 - 120	2	20
Sodium	20.0	21.0		mg/L		105	80 - 120	3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-237974/14-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Arsenic	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:30	5
Barium	ND		0.0060		mg/L		02/08/17 09:06	02/09/17 14:30	5
Beryllium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Cadmium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Chromium	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Cobalt	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Copper	ND		0.010		mg/L		02/08/17 09:06	02/09/17 14:30	5
Lead	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Nickel	ND		0.015		mg/L		02/08/17 09:06	02/09/17 14:30	5
Selenium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:30	5
Silver	ND		0.0020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Thallium	ND		0.0050		mg/L		02/08/17 09:06	02/09/17 14:30	5
Vanadium	ND		0.020		mg/L		02/08/17 09:06	02/09/17 14:30	5
Zinc	ND		0.035		mg/L		02/08/17 09:06	02/09/17 14:30	5

Lab Sample ID: LCS 580-237974/15-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.60		mg/L		87	80 - 120
Arsenic	4.00	3.90		mg/L		97	80 - 120
Barium	4.00	3.82		mg/L		96	80 - 120
Beryllium	0.100	0.0964		mg/L		96	80 - 120
Cadmium	0.100	0.0928		mg/L		93	80 - 120
Chromium	0.400	0.396		mg/L		99	80 - 120
Cobalt	1.00	0.941		mg/L		94	80 - 120
Copper	0.500	0.498		mg/L		100	80 - 120
Lead	1.00	0.930		mg/L		93	80 - 120
Nickel	1.00	1.00		mg/L		100	80 - 120
Selenium	4.00	3.93		mg/L		98	80 - 120
Silver	0.600	0.558		mg/L		93	80 - 120
Thallium	4.00	3.78		mg/L		94	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-237974/15-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	1.00	0.943		mg/L		94	80 - 120
Zinc	4.00	3.84		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-237974/16-A
Matrix: Water
Analysis Batch: 238122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 237974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.51		mg/L		84	80 - 120	3	20
Arsenic	4.00	3.95		mg/L		99	80 - 120	1	20
Barium	4.00	3.85		mg/L		96	80 - 120	1	20
Beryllium	0.100	0.0967		mg/L		97	80 - 120	0	20
Cadmium	0.100	0.101		mg/L		101	80 - 120	9	20
Chromium	0.400	0.399		mg/L		100	80 - 120	1	20
Cobalt	1.00	0.947		mg/L		95	80 - 120	1	20
Copper	0.500	0.501		mg/L		100	80 - 120	1	20
Lead	1.00	0.935		mg/L		94	80 - 120	1	20
Nickel	1.00	1.01		mg/L		101	80 - 120	1	20
Selenium	4.00	3.92		mg/L		98	80 - 120	0	20
Silver	0.600	0.565		mg/L		94	80 - 120	1	20
Thallium	4.00	3.78		mg/L		95	80 - 120	0	20
Vanadium	1.00	0.967		mg/L		97	80 - 120	3	20
Zinc	4.00	3.89		mg/L		97	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-237898/3
Matrix: Water
Analysis Batch: 237898

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			02/06/17 13:29	1
Chloride	ND		0.90		mg/L			02/06/17 13:29	1
Sulfate	ND		1.2		mg/L			02/06/17 13:29	1

Lab Sample ID: LCS 580-237898/4
Matrix: Water
Analysis Batch: 237898

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.95		mg/L		99	90 - 110
Chloride	50.0	48.6		mg/L		97	90 - 110
Sulfate	50.0	49.0		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-237898/5
Matrix: Water
Analysis Batch: 237898

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.94		mg/L		99	90 - 110	0	15
Chloride	50.0	48.6		mg/L		97	90 - 110	0	15
Sulfate	50.0	49.0		mg/L		98	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-237749/1-A
Matrix: Water
Analysis Batch: 237875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237749

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		02/03/17 10:42	02/04/17 14:00	1

Lab Sample ID: LCS 580-237749/2-A
Matrix: Water
Analysis Batch: 237875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.09		mg/L		104	90 - 110

Lab Sample ID: 580-65746-1 MS
Matrix: Water
Analysis Batch: 237875

Client Sample ID: 0117-27
Prep Type: Total/NA
Prep Batch: 237749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		2.00	2.07		mg/L		103	90 - 110

Lab Sample ID: 580-65746-1 MSD
Matrix: Water
Analysis Batch: 237875

Client Sample ID: 0117-27
Prep Type: Total/NA
Prep Batch: 237749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.00		mg/L		100	90 - 110	3	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-238021/48
Matrix: Water
Analysis Batch: 238021

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.050		mg/L			02/08/17 13:31	1

Lab Sample ID: LCS 580-238021/49
Matrix: Water
Analysis Batch: 238021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.975		mg/L		98	90 - 110

Lab Sample ID: LCSD 580-238021/50
Matrix: Water
Analysis Batch: 238021

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.980		mg/L		98	90 - 110	1	20

Lab Sample ID: 580-65746-1 MS
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	ND	F1	0.500	0.390	F1	mg/L		78	90 - 110		

Lab Sample ID: 580-65746-1 MSD
Matrix: Water
Analysis Batch: 238021

Client Sample ID: 0117-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.385	F1	mg/L		77	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-237912/2
Matrix: Water
Analysis Batch: 237912

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	97.2		mg/L		97	85 - 115		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-237709/1
Matrix: Water
Analysis Batch: 237709

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			02/02/17 15:23	1

Lab Sample ID: LCS 580-237709/2
Matrix: Water
Analysis Batch: 237709

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1050		mg/L		105	80 - 120		

Method: SM 5220D - COD

Lab Sample ID: MB 580-238106/3-A
Matrix: Water
Analysis Batch: 238112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 238106

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10	10	mg/L		02/09/17 12:00	02/09/17 16:38	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 580-238106/4-A
Matrix: Water
Analysis Batch: 238112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 238106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	73.2		mg/L		98	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-238117/3
Matrix: Water
Analysis Batch: 238117

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/09/17 07:50	1

Lab Sample ID: LCS 580-238117/4
Matrix: Water
Analysis Batch: 238117

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.12		mg/L		91	85 - 115

Lab Sample ID: 580-65746-2 MS
Matrix: Water
Analysis Batch: 238117

Client Sample ID: 0117-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.7		10.0	11.0		mg/L		93	85 - 115

Lab Sample ID: 580-65746-2 MSD
Matrix: Water
Analysis Batch: 238117

Client Sample ID: 0117-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.7		10.0	10.9		mg/L		92	85 - 115	1	20

Lab Sample ID: 580-65746-2 DU
Matrix: Water
Analysis Batch: 238117

Client Sample ID: 0117-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.7		1.72		mg/L		0.4	20

Lab Sample ID: MB 580-238200/3
Matrix: Water
Analysis Batch: 238200

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			02/09/17 20:43	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-238200/4
Matrix: Water
Analysis Batch: 238200

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	11.0		mg/L		110	85 - 115

Lab Chronicle

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Client Sample ID: 0117-27
Date Collected: 01/27/17 09:46
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238138	02/10/17 19:21	W1T	TAL SEA
Dissolved	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Dissolved	Analysis	6010C		1	238039	02/08/17 16:18	HJM	TAL SEA
Total Recoverable	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Total Recoverable	Analysis	6020A		5	238122	02/09/17 15:32	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 19:32	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237749	02/03/17 10:42	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237875	02/04/17 14:00	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:52	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237912	02/07/17 11:59	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237709	02/02/17 15:23	Z1T	TAL SEA
Total/NA	Prep	SM 5220			238106	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238112	02/09/17 16:38	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238200	02/09/17 20:43	Z1T	TAL SEA

Client Sample ID: 0117-28
Date Collected: 01/27/17 10:35
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238138	02/10/17 19:47	W1T	TAL SEA
Dissolved	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Dissolved	Analysis	6010C		1	238039	02/08/17 16:22	HJM	TAL SEA
Total Recoverable	Prep	3005A			237974	02/08/17 09:06	ADB	TAL SEA
Total Recoverable	Analysis	6020A		5	238122	02/09/17 15:37	FCW	TAL SEA
Total/NA	Analysis	300.0		1	237898	02/06/17 19:48	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			237749	02/03/17 10:42	EMM	TAL SEA
Total/NA	Analysis	350.1		1	237875	02/07/17 14:00	EMM	TAL SEA
Total/NA	Analysis	353.2		1	238021	02/08/17 13:56	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	237912	02/07/17 11:59	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	237709	02/02/17 15:23	Z1T	TAL SEA
Total/NA	Prep	SM 5220			238106	02/09/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	238112	02/09/17 16:38	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	238117	02/09/17 07:50	Z1T	TAL SEA

Client Sample ID: 0117-99
Date Collected: 01/27/17 12:16
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238138	02/10/17 20:13	W1T	TAL SEA
Total/NA	Analysis	8260C	RA	1	238280	02/13/17 20:27	HDK	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Client Sample ID: 0117-100
Date Collected: 01/27/17 13:26
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238138	02/10/17 20:39	W1T	TAL SEA
Total/NA	Analysis	8260C	RA	1	238280	02/13/17 20:53	HDK	TAL SEA

Client Sample ID: Trip Blank
Date Collected: 01/27/17 00:01
Date Received: 01/30/17 13:51

Lab Sample ID: 580-65746-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	238138	02/10/17 18:04	W1T	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2540C		Water	Total Dissolved Solids

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Island Co. Solid Waste Facility Groundwa

TestAmerica Job ID: 580-65746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-65746-1	0117-27	Water	01/27/17 09:46	01/30/17 13:51
580-65746-2	0117-28	Water	01/27/17 10:35	01/30/17 13:51
580-65746-3	0117-99	Water	01/27/17 12:16	01/30/17 13:51
580-65746-4	0117-100	Water	01/27/17 13:26	01/30/17 13:51
580-65746-5	Trip Blank	Water	01/27/17 00:01	01/30/17 13:51

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Venchiarutti	1/30/17	34209
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2405 140th Ave NE Suite 107	(425)766-2502	65746	
City / State / Zip Code	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Cathy Gamble	
Project Name and Location (State)	**Billing Contact**		
Island Co. Solid Waste Facility			
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	8260 B_LL	TDS	Cl, F, SO4	Nitrate Comp PO	Special Instructions/ Conditions of Receipt
0117-27	1/27/17	946		X			3	4	2	6			X	X	X	X	X	X	X	X	X	X	
0117-28		1035					3	4	2	6			X	X	X	X	X	X	X	X	X	X	
0117-99		1216								3									X				
0117-100		1326								3									X				
Trip blank	–	–								1									X				

580-65746 Chain of Custody

TB A2 Cooler Cor 1.5° Unc 2.4° — TB A2 Cooler Cor 1.9° Unc 2.8°
Cooler Dsc Lg Blue Cooler@Lab 1540 — Cooler Dsc Lg Blue Cooler@Lab 1540
Wet/Packs Packing Bubble — Wet/Packs Packing Bubble
w/o — w/o

Cooler	Possible Hazard Identification	Sample Disposal	
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client	☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Sam Graber	1/30/17	1351	Francisco Lung, Jr	1/30/17	1351
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

4/5/2017

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-65746-1

Login Number: 65746
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

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

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-66539-1
Client Project/Site: CSWF, WA
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
3/31/2017 12:44:12 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Job ID: 580-66539-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 3/3/2017 12:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4º C.

GC/MS VOA

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-240112 was outside criteria for the following analyte(s): Chloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-240112 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects therefore, the data have been reported. The following samples are impacted: 0317-29 (580-66539-1), 0317-30 (580-66539-2), 0317-18 (580-66539-3), 0317-17 (580-66539-4), 0317-08 (580-66539-5), 0317-09 (580-66539-6), Trip Blank (580-66539-7) and (CCVIS 580-240112/2).

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

Glossary

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

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-29
Date Collected: 03/02/17 09:15
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 16:43	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 16:43	1
Bromomethane	ND		1.0		ug/L			03/09/17 16:43	1
Chloroethane	ND		0.50		ug/L			03/09/17 16:43	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 16:43	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 16:43	1
Methyl iodide	ND		0.50		ug/L			03/09/17 16:43	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 16:43	1
Acetone	ND		2.0		ug/L			03/09/17 16:43	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 16:43	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 16:43	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 16:43	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 16:43	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 16:43	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 16:43	1
2-Butanone	ND		15		ug/L			03/09/17 16:43	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 16:43	1
Chloroform	ND		0.20		ug/L			03/09/17 16:43	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 16:43	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 16:43	1
Benzene	ND		0.20		ug/L			03/09/17 16:43	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 16:43	1
Trichloroethene	ND		0.20		ug/L			03/09/17 16:43	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 16:43	1
Dibromomethane	ND		0.20		ug/L			03/09/17 16:43	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 16:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 16:43	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 16:43	1
Toluene	ND		0.20		ug/L			03/09/17 16:43	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 16:43	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 16:43	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 16:43	1
2-Hexanone	ND		2.0		ug/L			03/09/17 16:43	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 16:43	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 16:43	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 16:43	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 16:43	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 16:43	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 16:43	1
o-Xylene	ND		0.50		ug/L			03/09/17 16:43	1
Styrene	ND		0.50		ug/L			03/09/17 16:43	1
Bromoform	ND		0.50		ug/L			03/09/17 16:43	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 16:43	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 16:43	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 16:43	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 16:43	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 16:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 16:43	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-29
Date Collected: 03/02/17 09:15
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		03/09/17 16:43	1
Trifluorotoluene (Surr)	106		74 - 118		03/09/17 16:43	1
Dibromofluoromethane (Surr)	99		42 - 132		03/09/17 16:43	1
4-Bromofluorobenzene (Surr)	98		81 - 120		03/09/17 16:43	1
1,2-Dichloroethane-d4 (Surr)	100		46 - 150		03/09/17 16:43	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-30
Date Collected: 03/02/17 09:50
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 17:10	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 17:10	1
Bromomethane	ND		1.0		ug/L			03/09/17 17:10	1
Chloroethane	ND		0.50		ug/L			03/09/17 17:10	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 17:10	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 17:10	1
Methyl iodide	ND		0.50		ug/L			03/09/17 17:10	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 17:10	1
Acetone	ND		2.0		ug/L			03/09/17 17:10	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 17:10	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 17:10	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 17:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 17:10	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 17:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 17:10	1
2-Butanone	ND		15		ug/L			03/09/17 17:10	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 17:10	1
Chloroform	ND		0.20		ug/L			03/09/17 17:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 17:10	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 17:10	1
Benzene	ND		0.20		ug/L			03/09/17 17:10	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 17:10	1
Trichloroethene	ND		0.20		ug/L			03/09/17 17:10	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 17:10	1
Dibromomethane	ND		0.20		ug/L			03/09/17 17:10	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 17:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 17:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 17:10	1
Toluene	ND		0.20		ug/L			03/09/17 17:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 17:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 17:10	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 17:10	1
2-Hexanone	ND		2.0		ug/L			03/09/17 17:10	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 17:10	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 17:10	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 17:10	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 17:10	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 17:10	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 17:10	1
o-Xylene	ND		0.50		ug/L			03/09/17 17:10	1
Styrene	ND		0.50		ug/L			03/09/17 17:10	1
Bromoform	ND		0.50		ug/L			03/09/17 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 17:10	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 17:10	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 17:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 17:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 17:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 17:10	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-30
Date Collected: 03/02/17 09:50
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		03/09/17 17:10	1
Trifluorotoluene (Surr)	104		74 - 118		03/09/17 17:10	1
Dibromofluoromethane (Surr)	100		42 - 132		03/09/17 17:10	1
4-Bromofluorobenzene (Surr)	98		81 - 120		03/09/17 17:10	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		03/09/17 17:10	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-18
Date Collected: 03/02/17 10:55
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 17:36	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 17:36	1
Bromomethane	ND		1.0		ug/L			03/09/17 17:36	1
Chloroethane	ND		0.50		ug/L			03/09/17 17:36	1
Trichlorofluoromethane	**2.0**		0.50		ug/L			03/09/17 17:36	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 17:36	1
Methyl iodide	ND		0.50		ug/L			03/09/17 17:36	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 17:36	1
Acetone	ND		2.0		ug/L			03/09/17 17:36	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 17:36	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 17:36	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 17:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 17:36	1
1,1-Dichloroethane	**0.68**		0.20		ug/L			03/09/17 17:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 17:36	1
2-Butanone	ND		15		ug/L			03/09/17 17:36	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 17:36	1
Chloroform	ND		0.20		ug/L			03/09/17 17:36	1
1,1,1-Trichloroethane	**0.62**		0.20		ug/L			03/09/17 17:36	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 17:36	1
Benzene	ND		0.20		ug/L			03/09/17 17:36	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 17:36	1
Trichloroethene	ND		0.20		ug/L			03/09/17 17:36	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 17:36	1
Dibromomethane	ND		0.20		ug/L			03/09/17 17:36	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 17:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 17:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 17:36	1
Toluene	ND		0.20		ug/L			03/09/17 17:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 17:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 17:36	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 17:36	1
2-Hexanone	ND		2.0		ug/L			03/09/17 17:36	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 17:36	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 17:36	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 17:36	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 17:36	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 17:36	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 17:36	1
o-Xylene	ND		0.50		ug/L			03/09/17 17:36	1
Styrene	ND		0.50		ug/L			03/09/17 17:36	1
Bromoform	ND		0.50		ug/L			03/09/17 17:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 17:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 17:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 17:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 17:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 17:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 17:36	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-18
Date Collected: 03/02/17 10:55
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		03/09/17 17:36	1
Trifluorotoluene (Surr)	104		74 - 118		03/09/17 17:36	1
Dibromofluoromethane (Surr)	99		42 - 132		03/09/17 17:36	1
4-Bromofluorobenzene (Surr)	98		81 - 120		03/09/17 17:36	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		03/09/17 17:36	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-17
Date Collected: 03/02/17 11:28
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 18:01	1
Vinyl chloride	**0.044**		0.020		ug/L			03/09/17 18:01	1
Bromomethane	ND		1.0		ug/L			03/09/17 18:01	1
Chloroethane	ND		0.50		ug/L			03/09/17 18:01	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 18:01	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 18:01	1
Methyl iodide	ND		0.50		ug/L			03/09/17 18:01	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 18:01	1
Acetone	ND		2.0		ug/L			03/09/17 18:01	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 18:01	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 18:01	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 18:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 18:01	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 18:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 18:01	1
2-Butanone	ND		15		ug/L			03/09/17 18:01	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 18:01	1
Chloroform	ND		0.20		ug/L			03/09/17 18:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 18:01	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 18:01	1
Benzene	ND		0.20		ug/L			03/09/17 18:01	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 18:01	1
Trichloroethene	ND		0.20		ug/L			03/09/17 18:01	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 18:01	1
Dibromomethane	ND		0.20		ug/L			03/09/17 18:01	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 18:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 18:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 18:01	1
Toluene	ND		0.20		ug/L			03/09/17 18:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 18:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 18:01	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 18:01	1
2-Hexanone	ND		2.0		ug/L			03/09/17 18:01	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 18:01	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 18:01	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 18:01	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 18:01	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 18:01	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 18:01	1
o-Xylene	ND		0.50		ug/L			03/09/17 18:01	1
Styrene	ND		0.50		ug/L			03/09/17 18:01	1
Bromoform	ND		0.50		ug/L			03/09/17 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 18:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 18:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 18:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 18:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 18:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 18:01	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-17
Date Collected: 03/02/17 11:28
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		03/09/17 18:01	1
Trifluorotoluene (Surr)	103		74 - 118		03/09/17 18:01	1
Dibromofluoromethane (Surr)	100		42 - 132		03/09/17 18:01	1
4-Bromofluorobenzene (Surr)	98		81 - 120		03/09/17 18:01	1
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		03/09/17 18:01	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-08
Date Collected: 03/02/17 12:30
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 18:27	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 18:27	1
Bromomethane	ND		1.0		ug/L			03/09/17 18:27	1
Chloroethane	ND		0.50		ug/L			03/09/17 18:27	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 18:27	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 18:27	1
Methyl iodide	ND		0.50		ug/L			03/09/17 18:27	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 18:27	1
Acetone	ND		2.0		ug/L			03/09/17 18:27	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 18:27	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 18:27	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 18:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 18:27	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 18:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 18:27	1
2-Butanone	ND		15		ug/L			03/09/17 18:27	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 18:27	1
Chloroform	ND		0.20		ug/L			03/09/17 18:27	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 18:27	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 18:27	1
Benzene	ND		0.20		ug/L			03/09/17 18:27	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 18:27	1
Trichloroethene	ND		0.20		ug/L			03/09/17 18:27	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 18:27	1
Dibromomethane	ND		0.20		ug/L			03/09/17 18:27	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 18:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 18:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 18:27	1
Toluene	ND		0.20		ug/L			03/09/17 18:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 18:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 18:27	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 18:27	1
2-Hexanone	ND		2.0		ug/L			03/09/17 18:27	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 18:27	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 18:27	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 18:27	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 18:27	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 18:27	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 18:27	1
o-Xylene	ND		0.50		ug/L			03/09/17 18:27	1
Styrene	ND		0.50		ug/L			03/09/17 18:27	1
Bromoform	ND		0.50		ug/L			03/09/17 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 18:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 18:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 18:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 18:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 18:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 18:27	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-08
Date Collected: 03/02/17 12:30
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		03/09/17 18:27	1
Trifluorotoluene (Surr)	99		74 - 118		03/09/17 18:27	1
Dibromofluoromethane (Surr)	98		42 - 132		03/09/17 18:27	1
4-Bromofluorobenzene (Surr)	99		81 - 120		03/09/17 18:27	1
1,2-Dichloroethane-d4 (Surr)	100		46 - 150		03/09/17 18:27	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-09
Date Collected: 03/02/17 13:02
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 18:53	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 18:53	1
Bromomethane	ND		1.0		ug/L			03/09/17 18:53	1
Chloroethane	ND		0.50		ug/L			03/09/17 18:53	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 18:53	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 18:53	1
Methyl iodide	ND		0.50		ug/L			03/09/17 18:53	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 18:53	1
Acetone	ND		2.0		ug/L			03/09/17 18:53	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 18:53	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 18:53	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 18:53	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 18:53	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 18:53	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 18:53	1
2-Butanone	ND		15		ug/L			03/09/17 18:53	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 18:53	1
Chloroform	ND		0.20		ug/L			03/09/17 18:53	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 18:53	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 18:53	1
Benzene	ND		0.20		ug/L			03/09/17 18:53	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 18:53	1
Trichloroethene	ND		0.20		ug/L			03/09/17 18:53	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 18:53	1
Dibromomethane	ND		0.20		ug/L			03/09/17 18:53	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 18:53	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 18:53	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 18:53	1
Toluene	ND		0.20		ug/L			03/09/17 18:53	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 18:53	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 18:53	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 18:53	1
2-Hexanone	ND		2.0		ug/L			03/09/17 18:53	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 18:53	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 18:53	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 18:53	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 18:53	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 18:53	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 18:53	1
o-Xylene	ND		0.50		ug/L			03/09/17 18:53	1
Styrene	ND		0.50		ug/L			03/09/17 18:53	1
Bromoform	ND		0.50		ug/L			03/09/17 18:53	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 18:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 18:53	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 18:53	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 18:53	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 18:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 18:53	1

Client Sample Results

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-09
Date Collected: 03/02/17 13:02
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 125		03/09/17 18:53	1
Trifluorotoluene (Surr)	102		74 - 118		03/09/17 18:53	1
Dibromofluoromethane (Surr)	99		42 - 132		03/09/17 18:53	1
4-Bromofluorobenzene (Surr)	99		81 - 120		03/09/17 18:53	1
1,2-Dichloroethane-d4 (Surr)	101		46 - 150		03/09/17 18:53	1

Client Sample ID: Trip Blank
Date Collected: 03/02/17 00:00
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 15:26	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 15:26	1
Bromomethane	ND		1.0		ug/L			03/09/17 15:26	1
Chloroethane	ND		0.50		ug/L			03/09/17 15:26	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 15:26	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 15:26	1
Methyl iodide	ND		0.50		ug/L			03/09/17 15:26	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 15:26	1
Acetone	ND		2.0		ug/L			03/09/17 15:26	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 15:26	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 15:26	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 15:26	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 15:26	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 15:26	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 15:26	1
2-Butanone	ND		15		ug/L			03/09/17 15:26	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 15:26	1
Chloroform	ND		0.20		ug/L			03/09/17 15:26	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 15:26	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 15:26	1
Benzene	ND		0.20		ug/L			03/09/17 15:26	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 15:26	1
Trichloroethene	ND		0.20		ug/L			03/09/17 15:26	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 15:26	1
Dibromomethane	ND		0.20		ug/L			03/09/17 15:26	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 15:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 15:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 15:26	1
Toluene	ND		0.20		ug/L			03/09/17 15:26	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 15:26	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 15:26	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 15:26	1
2-Hexanone	ND		2.0		ug/L			03/09/17 15:26	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 15:26	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 15:26	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 15:26	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 15:26	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 15:26	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 15:26	1
o-Xylene	ND		0.50		ug/L			03/09/17 15:26	1
Styrene	ND		0.50		ug/L			03/09/17 15:26	1
Bromoform	ND		0.50		ug/L			03/09/17 15:26	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 15:26	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 15:26	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 15:26	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 15:26	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 15:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 15:26	1

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: Trip Blank
Date Collected: 03/02/17 00:00
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 125		03/09/17 15:26	1
Trifluorotoluene (Surr)	101		74 - 118		03/09/17 15:26	1
Dibromofluoromethane (Surr)	99		42 - 132		03/09/17 15:26	1
4-Bromofluorobenzene (Surr)	101		81 - 120		03/09/17 15:26	1
1,2-Dichloroethane-d4 (Surr)	100		46 - 150		03/09/17 15:26	1

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

Lab Sample ID: MB 580-240112/4
Matrix: Water
Analysis Batch: 240112

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.30		ug/L			03/09/17 12:58	1
Vinyl chloride	ND		0.020		ug/L			03/09/17 12:58	1
Bromomethane	ND		1.0		ug/L			03/09/17 12:58	1
Chloroethane	ND		0.50		ug/L			03/09/17 12:58	1
Trichlorofluoromethane	ND		0.50		ug/L			03/09/17 12:58	1
1,1-Dichloroethene	ND		0.10		ug/L			03/09/17 12:58	1
Methyl iodide	ND		0.50		ug/L			03/09/17 12:58	1
Carbon disulfide	ND		0.20		ug/L			03/09/17 12:58	1
Acetone	ND		2.0		ug/L			03/09/17 12:58	1
Methylene Chloride	ND		0.50		ug/L			03/09/17 12:58	1
Acrylonitrile	ND		5.0		ug/L			03/09/17 12:58	1
Vinyl acetate	ND		1.0		ug/L			03/09/17 12:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 12:58	1
1,1-Dichloroethane	ND		0.20		ug/L			03/09/17 12:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			03/09/17 12:58	1
2-Butanone	ND		15		ug/L			03/09/17 12:58	1
Bromochloromethane	ND		0.20		ug/L			03/09/17 12:58	1
Chloroform	ND		0.20		ug/L			03/09/17 12:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			03/09/17 12:58	1
Carbon tetrachloride	ND		0.20		ug/L			03/09/17 12:58	1
Benzene	ND		0.20		ug/L			03/09/17 12:58	1
1,2-Dichloroethane	ND		0.20		ug/L			03/09/17 12:58	1
Trichloroethene	ND		0.20		ug/L			03/09/17 12:58	1
1,2-Dichloropropane	ND		0.20		ug/L			03/09/17 12:58	1
Dibromomethane	ND		0.20		ug/L			03/09/17 12:58	1
Bromodichloromethane	ND		0.20		ug/L			03/09/17 12:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			03/09/17 12:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			03/09/17 12:58	1
Toluene	ND		0.20		ug/L			03/09/17 12:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			03/09/17 12:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			03/09/17 12:58	1
Tetrachloroethene	ND		0.50		ug/L			03/09/17 12:58	1
2-Hexanone	ND		2.0		ug/L			03/09/17 12:58	1
Dibromochloromethane	ND		0.20		ug/L			03/09/17 12:58	1
1,2-Dibromoethane	ND		0.10		ug/L			03/09/17 12:58	1
Chlorobenzene	ND		0.20		ug/L			03/09/17 12:58	1
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 12:58	1
Ethylbenzene	ND		0.20		ug/L			03/09/17 12:58	1
m,p-Xylene	ND		0.50		ug/L			03/09/17 12:58	1
o-Xylene	ND		0.50		ug/L			03/09/17 12:58	1
Styrene	ND		0.50		ug/L			03/09/17 12:58	1
Bromoform	ND		0.50		ug/L			03/09/17 12:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			03/09/17 12:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			03/09/17 12:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			03/09/17 12:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			03/09/17 12:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			03/09/17 12:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			03/09/17 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*75 - 125*		*03/09/17 12:58*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*03/09/17 12:58*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*03/09/17 12:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*03/09/17 12:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*03/09/17 12:58*	*1*

Lab Sample ID: LCS 580-240112/5
Matrix: Water
Analysis Batch: 240112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	5.00	5.25		ug/L		105	40 - 150
Vinyl chloride	5.00	5.36		ug/L		107	59 - 140
Bromomethane	5.00	5.28		ug/L		106	61 - 135
Chloroethane	5.00	5.33		ug/L		107	58 - 130
Trichlorofluoromethane	5.00	4.78		ug/L		96	60 - 150
1,1-Dichloroethene	5.00	5.17		ug/L		103	64 - 125
Methyl iodide	5.00	5.16		ug/L		103	47 - 145
Carbon disulfide	5.00	5.13		ug/L		103	65 - 128
Acetone	25.0	22.4		ug/L		90	20 - 138
Methylene Chloride	5.00	4.88		ug/L		98	58 - 134
Acrylonitrile	50.0	55.9		ug/L		112	55 - 134
Vinyl acetate	12.5	15.0		ug/L		120	30 - 150
trans-1,2-Dichloroethene	5.00	5.10		ug/L		102	69 - 124
1,1-Dichloroethane	5.00	5.15		ug/L		103	68 - 135
cis-1,2-Dichloroethene	5.00	5.04		ug/L		101	73 - 130
2-Butanone	25.0	27.6		ug/L		110	30 - 150
Bromochloromethane	5.00	5.21		ug/L		104	71 - 131
Chloroform	5.00	5.15		ug/L		103	71 - 130
1,1,1-Trichloroethane	5.00	4.96		ug/L		99	56 - 150
Carbon tetrachloride	5.00	5.15		ug/L		103	54 - 150
Benzene	5.00	5.20		ug/L		104	73 - 120
1,2-Dichloroethane	5.00	5.08		ug/L		102	63 - 150
Trichloroethene	5.00	5.04		ug/L		101	72 - 123
1,2-Dichloropropane	5.00	5.09		ug/L		102	72 - 120
Dibromomethane	5.00	5.24		ug/L		105	65 - 137
Bromodichloromethane	5.00	5.00		ug/L		100	62 - 150
cis-1,3-Dichloropropene	5.00	5.25		ug/L		105	54 - 150
4-Methyl-2-pentanone	25.0	27.6		ug/L		110	36 - 150
Toluene	5.00	5.23		ug/L		105	70 - 126
trans-1,3-Dichloropropene	5.00	5.19		ug/L		104	40 - 150
1,1,2-Trichloroethane	5.00	5.09		ug/L		102	62 - 137
Tetrachloroethene	5.00	5.09		ug/L		102	67 - 123
2-Hexanone	25.0	26.5		ug/L		106	25 - 150
Dibromochloromethane	5.00	5.12		ug/L		102	46 - 150
1,2-Dibromoethane	5.00	5.30		ug/L		106	56 - 146
Chlorobenzene	5.00	5.22		ug/L		104	74 - 114
1,1,1,2-Tetrachloroethane	5.00	5.06		ug/L		101	68 - 139
Ethylbenzene	5.00	5.29		ug/L		106	74 - 125
m,p-Xylene	5.00	5.20		ug/L		104	73 - 130
o-Xylene	5.00	5.23		ug/L		105	80 - 139
Styrene	5.00	5.22		ug/L		104	68 - 136
Bromoform	5.00	5.12		ug/L		102	51 - 137
1,1,2,2-Tetrachloroethane	5.00	5.37		ug/L		107	60 - 134

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

Lab Sample ID: LCS 580-240112/5
Matrix: Water
Analysis Batch: 240112

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	5.00	5.37		ug/L		107	45 - 150
trans-1,4-Dichloro-2-butene	5.00	5.48		ug/L		110	20 - 150
1,4-Dichlorobenzene	5.00	5.19		ug/L		104	77 - 120
1,2-Dichlorobenzene	5.00	5.12		ug/L		102	73 - 120
1,2-Dibromo-3-Chloropropane	5.00	5.23		ug/L		105	34 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*102*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Lab Sample ID: LCSD 580-240112/6
Matrix: Water
Analysis Batch: 240112

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	5.00	5.35		ug/L		107	40 - 150	2	31
Vinyl chloride	5.00	5.41		ug/L		108	59 - 140	1	30
Bromomethane	5.00	5.52		ug/L		110	61 - 135	4	31
Chloroethane	5.00	5.50		ug/L		110	58 - 130	3	35
Trichlorofluoromethane	5.00	4.67		ug/L		93	60 - 150	2	31
1,1-Dichloroethene	5.00	5.28		ug/L		106	64 - 125	2	28
Methyl iodide	5.00	5.31		ug/L		106	47 - 145	3	35
Carbon disulfide	5.00	5.23		ug/L		105	65 - 128	2	32
Acetone	25.0	24.6		ug/L		98	20 - 138	9	35
Methylene Chloride	5.00	4.84		ug/L		97	58 - 134	1	29
Acrylonitrile	50.0	57.6		ug/L		115	55 - 134	3	35
Vinyl acetate	12.5	15.8		ug/L		126	30 - 150	5	35
trans-1,2-Dichloroethene	5.00	5.27		ug/L		105	69 - 124	3	27
1,1-Dichloroethane	5.00	5.25		ug/L		105	68 - 135	2	27
cis-1,2-Dichloroethene	5.00	5.27		ug/L		105	73 - 130	4	20
2-Butanone	25.0	29.5		ug/L		118	30 - 150	7	35
Bromochloromethane	5.00	5.24		ug/L		105	71 - 131	0	20
Chloroform	5.00	5.22		ug/L		104	71 - 130	1	20
1,1,1-Trichloroethane	5.00	5.05		ug/L		101	56 - 150	2	29
Carbon tetrachloride	5.00	5.29		ug/L		106	54 - 150	3	30
Benzene	5.00	5.29		ug/L		106	73 - 120	2	20
1,2-Dichloroethane	5.00	5.19		ug/L		104	63 - 150	2	29
Trichloroethene	5.00	5.03		ug/L		101	72 - 123	0	20
1,2-Dichloropropane	5.00	5.20		ug/L		104	72 - 120	2	20
Dibromomethane	5.00	5.42		ug/L		108	65 - 137	3	20
Bromodichloromethane	5.00	5.23		ug/L		105	62 - 150	4	20
cis-1,3-Dichloropropene	5.00	5.35		ug/L		107	54 - 150	2	28
4-Methyl-2-pentanone	25.0	28.6		ug/L		114	36 - 150	3	34
Toluene	5.00	5.34		ug/L		107	70 - 126	2	20
trans-1,3-Dichloropropene	5.00	5.30		ug/L		106	40 - 150	2	30

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

Lab Sample ID: LCSD 580-240112/6
Matrix: Water
Analysis Batch: 240112

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane			5.00	5.22		ug/L		104	62 - 137	3	30
Tetrachloroethene			5.00	5.21		ug/L		104	67 - 123	2	20
2-Hexanone			25.0	28.0		ug/L		112	25 - 150	5	28
Dibromochloromethane			5.00	5.25		ug/L		105	46 - 150	3	20
1,2-Dibromoethane			5.00	5.39		ug/L		108	56 - 146	2	20
Chlorobenzene			5.00	5.33		ug/L		107	74 - 114	2	12
1,1,1,2-Tetrachloroethane			5.00	5.20		ug/L		104	68 - 139	3	20
Ethylbenzene			5.00	5.36		ug/L		107	74 - 125	1	20
m,p-Xylene			5.00	5.31		ug/L		106	73 - 130	2	20
o-Xylene			5.00	5.40		ug/L		108	80 - 139	3	20
Styrene			5.00	5.40		ug/L		108	68 - 136	4	20
Bromoform			5.00	5.39		ug/L		108	51 - 137	5	20
1,1,2,2-Tetrachloroethane			5.00	5.57		ug/L		111	60 - 134	4	25
1,2,3-Trichloropropane			5.00	5.47		ug/L		109	45 - 150	2	20
trans-1,4-Dichloro-2-butene			5.00	5.41		ug/L		108	20 - 150	1	20
1,4-Dichlorobenzene			5.00	5.33		ug/L		107	77 - 120	3	11
1,2-Dichlorobenzene			5.00	5.32		ug/L		106	73 - 120	4	14
1,2-Dibromo-3-Chloropropane			5.00	5.64		ug/L		113	34 - 150	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*75 - 125*
Trifluorotoluene (Surr)	*98*		*74 - 118*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*

Lab Chronicle

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: 0317-29
Date Collected: 03/02/17 09:15
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 16:43	TL1	TAL SEA

Client Sample ID: 0317-30
Date Collected: 03/02/17 09:50
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 17:10	TL1	TAL SEA

Client Sample ID: 0317-18
Date Collected: 03/02/17 10:55
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 17:36	TL1	TAL SEA

Client Sample ID: 0317-17
Date Collected: 03/02/17 11:28
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 18:01	TL1	TAL SEA

Client Sample ID: 0317-08
Date Collected: 03/02/17 12:30
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 18:27	TL1	TAL SEA

Client Sample ID: 0317-09
Date Collected: 03/02/17 13:02
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 18:53	TL1	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Client Sample ID: Trip Blank

Date Collected: 03/02/17 00:00
Date Received: 03/03/17 12:55

Lab Sample ID: 580-66539-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	240112	03/09/17 15:26	TL1	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C553	02-17-18

Analysis Method	Prep Method	Matrix	Analyte

Sample Summary

Client: SCS Engineers
Project/Site: CSWF, WA

TestAmerica Job ID: 580-66539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-66539-1	0317-29	Water	03/02/17 09:15	03/03/17 12:55
580-66539-2	0317-30	Water	03/02/17 09:50	03/03/17 12:55
580-66539-3	0317-18	Water	03/02/17 10:55	03/03/17 12:55
580-66539-4	0317-17	Water	03/02/17 11:28	03/03/17 12:55
580-66539-5	0317-08	Water	03/02/17 12:30	03/03/17 12:55
580-66539-6	0317-09	Water	03/02/17 13:02	03/03/17 12:55
580-66539-7	Trip Blank	Water	03/02/17 00:00	03/03/17 12:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 580
66539

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Venchiarutti	3/3/17	34010
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2405 140th Ave NE, Suite 107	425-289-5455		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.		
Project Name and Location (State)	**Billing Contact**		
CSWF, WA	Bill to TestAmerica.		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260B VOC	Special Instructions/ Conditions of Receipt
0317-29	3/2/17	915		X						3			X	
0317-30	↓	950		↓						↓			↓	
0317-18		1055												
0317-17		1128												
0317-08		1230												
0317-09		1302												
Trip blank	↓	—		↓						↓			↓	

580-66539 Chain of Custody

TBA Cooler Cor 0.4 Unc 1.3
Cooler Dsc Ice Retained @Lab 1630
Wet/Packs Packing Bubble
w/o Lab cans

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: ____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	SAM ADLINGTON	3/3/17	12:55	Francisco Lunas, T-	3/3/17	1255
2.						
3.						

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

3/31/2017

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-66539-1

Login Number: 66539
List Number: 1
Creator: Gonzales, Steve

List Source: TestAmerica Seattle

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

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 2Q 2017

Project Details

Project No.	04207033.10	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Graber	**Data Level**	Level II
Date	6/2/2017	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-67838-1	Samples arrived in good condition. COC did not match container labels on two samples. Sam Graber spoke to Cathy Gamble to resolve problem.	Test America
580-67845-1	Sample 0417-22 pH more than 2. Sample was preserved to appropriate pH in lab in accordance to company protocol.	Test America
580-67900-1	Samples arrived in good condition.	Test America
17-09484	Samples arrived in good condition.	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-67838-1	X	X	X	X	X	X	X
580-67845-1	X	X	X	X	X	X	-
580-67900-1	X	X	X	X	X	X	-
17-09484	-	-	X	-	-	-	-

X = Analysis performed on at least one sample in sample group.

- = Analysis not performed on any sample in sample group.

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-67838-1, 580-67845-1, 580-67900-1, 17-09484)
LCS/LCSD	Acceptable	See case narrative (580-67838-1, 580-67845-1, 580-67900-1, 17-09484)
Duplicates	Acceptable	See case narrative (580-67838-1, 580-67845-1, 580-67900-1, 17-09484)
MS/MSD	Acceptable	See case narrative (580-67838-1, 580-67845-1, 580-67900-1, 17-09484)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.
Trip Blank	580-67838-1	Acetone.	See lab report.
Trip Blank	580-67900-1	None.	No detections.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S (0417-19)**	**C1S DUP (0417-31)**	**RPD (%)**	**N3D (0417-20)**	**N3D DUP (0417-32)**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.52	0.54	3.77	0.2 U	0.2 U	0.00
1,1-Dichloroethene	ug/L	0.15	0.12	22.22	0.2 U	0.2 U	0.00
Acetone	ug/L	2.4	3.1	25.45	2.9	3.2	9.84
Alkalinity	mg/L	430	410	4.76	240	250	4.08
Arsenic	mg/L	0.0015	0.0015	0.00	0.008	0.008	0.00
Barium	mg/L	0.041	0.038	7.59	0.026	0.027	3.77
Bicarbonate Alkalinity	mg/L	430	410	4.76	240	250	4.08
Calcium	mg/L	150	140	6.90	74	73	1.36
Chemical Oxygen Demand	mg/L	15	25	50.00	10 U	10 U	0.00
Chloride	mg/L	6.2	0.9 U	149.30	37	37	0.00
Chromium	mg/L	0.0093	0.0096	3.17	0.0004 U	0.0004 U	0.00
cis-1,2-Dichloroethene	ug/L	0.35	0.34	2.90	0.2 U	0.2 U	0.00
Magnesium	mg/L	56	54	3.64	27	27	0.00
Manganese	mg/L	0.02 U	0.02U	0.00	0.046	0.029	45.33
Nickel	mg/L	0.0059	0.0059	0.00	0.003 U	0.003 U	0.00
Nitrate Nitrite as N	mg/L	4.9	4.8	2.06	0.15 U	0.15 U	0.00
Potassium	mg/L	5.7	5.6	1.77	6.2	6.4	3.17
Sodium	mg/L	26	28	7.41	22	22	0.00
Sulfate	mg/L	180	180	0.00	24	24	0.00
Total Dissolved Solids	mg/L	760	760	0.00	380	380	0.00
Total Organic Carbon	mg/L	7.4	7.4	0.00	1.2	1.1	8.70
Trichloroethene	ug/L	0.25	0.25	0.00	0.2 U	0.2 U	0.00
Trichlorofluoromethane	ug/L	3.8	3.8	0.00	0.5 U	0.5 U	0.00

U = Reporting limit used in place of a non-detection for the given parameter to allow for calculation.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
E	Result exceeded calibration range.	580-67900-1
F1	MS and/or MSD Recovery is outside acceptance limits.	580-67838-1, 580-67845-1, 580-67900-1
4	MS, MSD: the analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	580-67845-1, 580-67900-1

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-67845-1
Client Project/Site: Coupeville Solid Waste Facility
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
5/12/2017 4:55:47 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Job ID: 580-67845-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 4/26/2017 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.1º C, 3.5º C and 5.1º C.

Receipt Exceptions
The reference method requires samples to be preserved to a pH of 2 or less. The following sample was received with insufficient preservation at a pH of more than 2: 0417-22 (580-67845-3). The sample was preserved to the appropriate pH in the laboratory using Nitric Acid Lot #0000133393.

GC/MS VOA
Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-245121 was outside criteria for the following analyte(s): 2-Butanone, Chloroethane and 2-Hexanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-245121 recovered above the upper control limit for 2,2-Dichloropropane, Acrolein and Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0417-19 (580-67845-1), 0417-31 (580-67845-2), 0417-22 (580-67845-3), 0417-23 (580-67845-4), 0417-97 (580-67845-5), 0417-24 (580-67845-6), 0417-27 (580-67845-7), 0417-28 (580-67845-8) and (CCVIS 580-245121/2).

Method(s) 8260C: The method blank for analytical batch 580-245121 contained Acetone and Methylene Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0417-97 (580-67845-5). Elevated reporting limits (RLs) are provided.

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

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

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

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-19
Date Collected: 04/25/17 10:50
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 18:31	1
1,1,1-Trichloroethane	**0.52**		0.20		ug/L			05/05/17 18:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 18:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 18:31	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 18:31	1
1,1-Dichloroethene	**0.15**		0.10		ug/L			05/05/17 18:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 18:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 18:31	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 18:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 18:31	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 18:31	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 18:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 18:31	1
2-Butanone	ND		15		ug/L			05/05/17 18:31	1
2-Hexanone	ND		2.0		ug/L			05/05/17 18:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 18:31	1
Acetone	**2.4**		2.0		ug/L			05/05/17 18:31	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 18:31	1
Benzene	ND		0.20		ug/L			05/05/17 18:31	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 18:31	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 18:31	1
Bromoform	ND		0.50		ug/L			05/05/17 18:31	1
Bromomethane	ND		1.0		ug/L			05/05/17 18:31	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 18:31	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 18:31	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 18:31	1
Chloroethane	ND		0.50		ug/L			05/05/17 18:31	1
Chloroform	ND		0.20		ug/L			05/05/17 18:31	1
Chloromethane	ND		0.30		ug/L			05/05/17 18:31	1
cis-1,2-Dichloroethene	**0.35**		0.20		ug/L			05/05/17 18:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 18:31	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 18:31	1
Dibromomethane	ND		0.20		ug/L			05/05/17 18:31	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 18:31	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 18:31	1
Methyl iodide	ND		0.50		ug/L			05/05/17 18:31	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 18:31	1
o-Xylene	ND		0.50		ug/L			05/05/17 18:31	1
Styrene	ND		0.50		ug/L			05/05/17 18:31	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 18:31	1
Toluene	ND		0.20		ug/L			05/05/17 18:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 18:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 18:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 18:31	1
Trichloroethene	**0.25**		0.20		ug/L			05/05/17 18:31	1
Trichlorofluoromethane	**3.8**		0.50		ug/L			05/05/17 18:31	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 18:31	1
Vinyl chloride	ND		0.020		ug/L			05/05/17 18:31	1

Client Sample ID: 0417-19
Date Collected: 04/25/17 10:50
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*75 - 125*		*05/05/17 18:31*	*1*
Trifluorotoluene (Surr)	*87*		*74 - 118*		*05/05/17 18:31*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 18:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*05/05/17 18:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*05/05/17 18:31*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		04/28/17 14:39	05/01/17 15:08	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 15:08	1
Magnesium	**56**		1.1		mg/L		04/28/17 14:39	05/01/17 15:08	1
Manganese	ND		0.020		mg/L		04/28/17 14:39	05/01/17 15:08	1
Potassium	**5.7**		3.3		mg/L		04/28/17 14:39	05/01/17 15:08	1
Sodium	**26**		2.0		mg/L		04/28/17 14:39	05/01/17 15:08	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Arsenic	**0.0015**		0.0010		mg/L		04/28/17 14:39	05/01/17 12:46	1
Barium	**0.041**		0.0012		mg/L		04/28/17 14:39	05/01/17 12:46	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Chromium	**0.0093**		0.00040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 12:46	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 12:46	1
Nickel	**0.0059**		0.0030		mg/L		04/28/17 14:39	05/01/17 12:46	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 12:46	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 12:46	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 12:46	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 14:31	1
Chloride	**6.2**		0.90		mg/L			05/06/17 14:31	1
Sulfate	**180**		12		mg/L			05/08/17 09:14	10
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**4.9**		0.75		mg/L			05/09/17 19:37	5
Total Organic Carbon	**7.4**		1.0		mg/L			05/08/17 19:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**430**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**430**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**760**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	**15**		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-31
Date Collected: 04/25/17 11:00
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 19:00	1
1,1,1-Trichloroethane	**0.54**		0.20		ug/L			05/05/17 19:00	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 19:00	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 19:00	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 19:00	1
1,1-Dichloroethene	**0.12**		0.10		ug/L			05/05/17 19:00	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 19:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 19:00	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 19:00	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 19:00	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 19:00	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 19:00	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 19:00	1
2-Butanone	ND		15		ug/L			05/05/17 19:00	1
2-Hexanone	ND		2.0		ug/L			05/05/17 19:00	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 19:00	1
Acetone	**3.1**		2.0		ug/L			05/05/17 19:00	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 19:00	1
Benzene	ND		0.20		ug/L			05/05/17 19:00	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 19:00	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 19:00	1
Bromoform	ND		0.50		ug/L			05/05/17 19:00	1
Bromomethane	ND		1.0		ug/L			05/05/17 19:00	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 19:00	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 19:00	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 19:00	1
Chloroethane	ND		0.50		ug/L			05/05/17 19:00	1
Chloroform	ND		0.20		ug/L			05/05/17 19:00	1
Chloromethane	ND		0.30		ug/L			05/05/17 19:00	1
cis-1,2-Dichloroethene	**0.34**		0.20		ug/L			05/05/17 19:00	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 19:00	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 19:00	1
Dibromomethane	ND		0.20		ug/L			05/05/17 19:00	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 19:00	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 19:00	1
Methyl iodide	ND		0.50		ug/L			05/05/17 19:00	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 19:00	1
o-Xylene	ND		0.50		ug/L			05/05/17 19:00	1
Styrene	ND		0.50		ug/L			05/05/17 19:00	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 19:00	1
Toluene	ND		0.20		ug/L			05/05/17 19:00	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 19:00	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 19:00	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 19:00	1
Trichloroethene	**0.25**		0.20		ug/L			05/05/17 19:00	1
Trichlorofluoromethane	**3.8**		0.50		ug/L			05/05/17 19:00	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 19:00	1
Vinyl chloride	ND		0.020		ug/L			05/05/17 19:00	1

Client Sample ID: 0417-31
Date Collected: 04/25/17 11:00
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/05/17 19:00*	*1*
Trifluorotoluene (Surr)	*84*		*74 - 118*		*05/05/17 19:00*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*05/05/17 19:00*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*05/05/17 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*05/05/17 19:00*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		05/01/17 17:57	05/02/17 12:46	1
Iron	ND		0.30		mg/L		05/01/17 17:57	05/02/17 12:46	1
Magnesium	**54**		1.1		mg/L		05/01/17 17:57	05/02/17 12:46	1
Manganese	ND		0.020		mg/L		05/01/17 17:57	05/02/17 12:46	1
Potassium	**5.6**		3.3		mg/L		05/01/17 17:57	05/02/17 12:46	1
Sodium	**28**		2.0		mg/L		05/01/17 17:57	05/02/17 12:46	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Arsenic	**0.0015**		0.0010		mg/L		05/01/17 17:57	05/02/17 12:09	1
Barium	**0.038**		0.0012		mg/L		05/01/17 17:57	05/02/17 12:09	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Chromium	**0.0096**		0.00040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Cobalt	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Copper	ND		0.0020		mg/L		05/01/17 17:57	05/02/17 12:09	1
Lead	ND		0.00080		mg/L		05/01/17 17:57	05/02/17 12:09	1
Nickel	**0.0059**		0.0030		mg/L		05/01/17 17:57	05/02/17 12:09	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 12:09	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 12:09	1
Vanadium	ND		0.0040		mg/L		05/01/17 17:57	05/02/17 12:09	1
Zinc	ND		0.0070		mg/L		05/01/17 17:57	05/02/17 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 14:47	1
Chloride	ND		0.90		mg/L			05/06/17 14:47	1
Sulfate	**180**		12		mg/L			05/08/17 09:30	10
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**4.8**		0.75		mg/L			05/09/17 19:39	5
Total Organic Carbon	**7.4**		1.0		mg/L			05/08/17 19:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**410**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**410**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**760**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	**25**		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client Sample ID: 0417-22
Date Collected: 04/25/17 12:32
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 19:29	1
1,1,1-Trichloroethane	**0.38**		0.20		ug/L			05/05/17 19:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 19:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 19:29	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 19:29	1
1,1-Dichloroethene	ND		0.10		ug/L			05/05/17 19:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 19:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 19:29	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 19:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 19:29	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 19:29	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 19:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 19:29	1
2-Butanone	ND		15		ug/L			05/05/17 19:29	1
2-Hexanone	ND		2.0		ug/L			05/05/17 19:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 19:29	1
Acetone	ND		2.0		ug/L			05/05/17 19:29	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 19:29	1
Benzene	ND		0.20		ug/L			05/05/17 19:29	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 19:29	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 19:29	1
Bromoform	ND		0.50		ug/L			05/05/17 19:29	1
Bromomethane	ND		1.0		ug/L			05/05/17 19:29	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 19:29	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 19:29	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 19:29	1
Chloroethane	ND		0.50		ug/L			05/05/17 19:29	1
Chloroform	ND		0.20		ug/L			05/05/17 19:29	1
Chloromethane	ND		0.30		ug/L			05/05/17 19:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 19:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 19:29	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 19:29	1
Dibromomethane	ND		0.20		ug/L			05/05/17 19:29	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 19:29	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 19:29	1
Methyl iodide	ND		0.50		ug/L			05/05/17 19:29	1
Methylene Chloride	**0.79**		0.50		ug/L			05/05/17 19:29	1
o-Xylene	ND		0.50		ug/L			05/05/17 19:29	1
Styrene	ND		0.50		ug/L			05/05/17 19:29	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 19:29	1
Toluene	ND		0.20		ug/L			05/05/17 19:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 19:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 19:29	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 19:29	1
Trichloroethene	ND		0.20		ug/L			05/05/17 19:29	1
Trichlorofluoromethane	**1.8**		0.50		ug/L			05/05/17 19:29	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 19:29	1
Vinyl chloride	**23**		0.020		ug/L			05/05/17 19:29	1

Client Sample ID: 0417-22
Date Collected: 04/25/17 12:32
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/05/17 19:29*	*1*
Trifluorotoluene (Surr)	*95*		*74 - 118*		*05/05/17 19:29*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 19:29*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*05/05/17 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/05/17 19:29*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200**		1.1		mg/L		05/01/17 17:57	05/02/17 13:14	1
Iron	ND		0.30		mg/L		05/01/17 17:57	05/02/17 13:14	1
Magnesium	**97**		1.1		mg/L		05/01/17 17:57	05/02/17 13:14	1
Manganese	**0.062**		0.020		mg/L		05/01/17 17:57	05/02/17 13:14	1
Potassium	**9.2**		3.3		mg/L		05/01/17 17:57	05/02/17 13:14	1
Sodium	**40**		2.0		mg/L		05/01/17 17:57	05/02/17 13:14	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Arsenic	**0.0021**		0.0010		mg/L		05/01/17 17:57	05/02/17 10:50	1
Barium	**0.047**		0.0012		mg/L		05/01/17 17:57	05/02/17 10:50	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Chromium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Cobalt	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Copper	ND		0.0020		mg/L		05/01/17 17:57	05/02/17 10:50	1
Lead	ND		0.00080		mg/L		05/01/17 17:57	05/02/17 10:50	1
Nickel	**0.0069**		0.0030		mg/L		05/01/17 17:57	05/02/17 10:50	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 10:50	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 10:50	1
Vanadium	**0.0067**		0.0040		mg/L		05/01/17 17:57	05/02/17 10:50	1
Zinc	ND		0.0070		mg/L		05/01/17 17:57	05/02/17 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 15:03	1
Chloride	ND		0.90		mg/L			05/06/17 15:03	1
Sulfate	**67**		1.2		mg/L			05/06/17 15:03	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**4.0**		0.75		mg/L			05/09/17 19:40	5
Total Organic Carbon	**3.3**		1.0		mg/L			05/08/17 19:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**850**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**850**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**1000**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-23
Date Collected: 04/25/17 14:05
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 19:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/17 19:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 19:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 19:58	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 19:58	1
1,1-Dichloroethene	ND		0.10		ug/L			05/05/17 19:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 19:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 19:58	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 19:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 19:58	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 19:58	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 19:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 19:58	1
2-Butanone	ND		15		ug/L			05/05/17 19:58	1
2-Hexanone	ND		2.0		ug/L			05/05/17 19:58	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 19:58	1
Acetone	**3.9**		2.0		ug/L			05/05/17 19:58	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 19:58	1
Benzene	ND		0.20		ug/L			05/05/17 19:58	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 19:58	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 19:58	1
Bromoform	ND		0.50		ug/L			05/05/17 19:58	1
Bromomethane	ND		1.0		ug/L			05/05/17 19:58	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 19:58	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 19:58	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 19:58	1
Chloroethane	ND		0.50		ug/L			05/05/17 19:58	1
Chloroform	ND		0.20		ug/L			05/05/17 19:58	1
Chloromethane	ND		0.30		ug/L			05/05/17 19:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 19:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 19:58	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 19:58	1
Dibromomethane	ND		0.20		ug/L			05/05/17 19:58	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 19:58	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 19:58	1
Methyl iodide	ND		0.50		ug/L			05/05/17 19:58	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 19:58	1
o-Xylene	ND		0.50		ug/L			05/05/17 19:58	1
Styrene	ND		0.50		ug/L			05/05/17 19:58	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 19:58	1
Toluene	ND		0.20		ug/L			05/05/17 19:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 19:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 19:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 19:58	1
Trichloroethene	ND		0.20		ug/L			05/05/17 19:58	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/17 19:58	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 19:58	1
Vinyl chloride	**0.14**		0.020		ug/L			05/05/17 19:58	1

Client Sample ID: 0417-23
Date Collected: 04/25/17 14:05
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/05/17 19:58*	*1*
Trifluorotoluene (Surr)	*93*		*74 - 118*		*05/05/17 19:58*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 19:58*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*05/05/17 19:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/05/17 19:58*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		05/01/17 17:57	05/02/17 13:17	1
Iron	ND		0.30		mg/L		05/01/17 17:57	05/02/17 13:17	1
Magnesium	**67**		1.1		mg/L		05/01/17 17:57	05/02/17 13:17	1
Manganese	**0.39**		0.020		mg/L		05/01/17 17:57	05/02/17 13:17	1
Potassium	**7.8**		3.3		mg/L		05/01/17 17:57	05/02/17 13:17	1
Sodium	**34**		2.0		mg/L		05/01/17 17:57	05/02/17 13:17	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00049**		0.00040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Arsenic	**0.0017**		0.0010		mg/L		05/01/17 17:57	05/02/17 10:54	1
Barium	**0.057**		0.0012		mg/L		05/01/17 17:57	05/02/17 10:54	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Chromium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Cobalt	**0.00072**		0.00040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Copper	ND		0.0020		mg/L		05/01/17 17:57	05/02/17 10:54	1
Lead	ND		0.00080		mg/L		05/01/17 17:57	05/02/17 10:54	1
Nickel	**0.0043**		0.0030		mg/L		05/01/17 17:57	05/02/17 10:54	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 10:54	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 10:54	1
Vanadium	ND		0.0040		mg/L		05/01/17 17:57	05/02/17 10:54	1
Zinc	ND		0.0070		mg/L		05/01/17 17:57	05/02/17 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 15:19	1
Chloride	**23**		0.90		mg/L			05/06/17 15:19	1
Sulfate	**64**		1.2		mg/L			05/06/17 15:19	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**7.8**		1.5		mg/L			05/09/17 19:41	10
Total Organic Carbon	**2.1**		1.0		mg/L			05/08/17 19:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**610**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**610**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**800**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-97
Date Collected: 04/25/17 15:27
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 20:27	1
1,1,1-Trichloroethane	**0.89**		0.20		ug/L			05/05/17 20:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 20:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 20:27	1
1,1-Dichloroethane	**2.6**		0.20		ug/L			05/05/17 20:27	1
1,1-Dichloroethene	**2.9**		0.10		ug/L			05/05/17 20:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 20:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 20:27	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 20:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 20:27	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 20:27	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 20:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 20:27	1
2-Butanone	ND		15		ug/L			05/05/17 20:27	1
2-Hexanone	ND		2.0		ug/L			05/05/17 20:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 20:27	1
Acetone	ND		2.0		ug/L			05/05/17 20:27	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 20:27	1
Benzene	ND		0.20		ug/L			05/05/17 20:27	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 20:27	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 20:27	1
Bromoform	ND		0.50		ug/L			05/05/17 20:27	1
Bromomethane	ND		1.0		ug/L			05/05/17 20:27	1
Carbon disulfide	**0.20**		0.20		ug/L			05/05/17 20:27	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 20:27	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 20:27	1
Chloroethane	ND		0.50		ug/L			05/05/17 20:27	1
Chloroform	**0.26**		0.20		ug/L			05/05/17 20:27	1
Chloromethane	ND		0.30		ug/L			05/05/17 20:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 20:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 20:27	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 20:27	1
Dibromomethane	ND		0.20		ug/L			05/05/17 20:27	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 20:27	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 20:27	1
Methyl iodide	ND		0.50		ug/L			05/05/17 20:27	1
Methylene Chloride	**1.0**		0.50		ug/L			05/05/17 20:27	1
o-Xylene	ND		0.50		ug/L			05/05/17 20:27	1
Styrene	ND		0.50		ug/L			05/05/17 20:27	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 20:27	1
Toluene	ND		0.20		ug/L			05/05/17 20:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 20:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 20:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 20:27	1
Trichloroethene	ND		0.20		ug/L			05/05/17 20:27	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 20:27	1
Vinyl chloride	**6.4**		0.020		ug/L			05/05/17 20:27	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-97
Date Collected: 04/25/17 15:27
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*05/05/17 20:27*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*05/05/17 20:27*	*1*
Dibromofluoromethane (Surr)	*98*		*42 - 132*		*05/05/17 20:27*	*1*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/05/17 20:27*	*1*
Trifluorotoluene (Surr)	*89*		*74 - 118*		*05/05/17 20:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**55**		5.0		ug/L			05/09/17 15:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*05/09/17 15:44*	*10*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*05/09/17 15:44*	*10*
Dibromofluoromethane (Surr)	*107*		*42 - 132*		*05/09/17 15:44*	*10*
Toluene-d8 (Surr)	*93*		*75 - 125*		*05/09/17 15:44*	*10*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*05/09/17 15:44*	*10*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-24
Date Collected: 04/25/17 16:30
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 20:56	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/17 20:56	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 20:56	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 20:56	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 20:56	1
1,1-Dichloroethene	ND		0.10		ug/L			05/05/17 20:56	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 20:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 20:56	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 20:56	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 20:56	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 20:56	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 20:56	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 20:56	1
2-Butanone	ND		15		ug/L			05/05/17 20:56	1
2-Hexanone	ND		2.0		ug/L			05/05/17 20:56	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 20:56	1
Acetone	ND		2.0		ug/L			05/05/17 20:56	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 20:56	1
Benzene	ND		0.20		ug/L			05/05/17 20:56	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 20:56	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 20:56	1
Bromoform	ND		0.50		ug/L			05/05/17 20:56	1
Bromomethane	ND		1.0		ug/L			05/05/17 20:56	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 20:56	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 20:56	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 20:56	1
Chloroethane	ND		0.50		ug/L			05/05/17 20:56	1
Chloroform	ND		0.20		ug/L			05/05/17 20:56	1
Chloromethane	ND		0.30		ug/L			05/05/17 20:56	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 20:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 20:56	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 20:56	1
Dibromomethane	ND		0.20		ug/L			05/05/17 20:56	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 20:56	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 20:56	1
Methyl iodide	ND		0.50		ug/L			05/05/17 20:56	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 20:56	1
o-Xylene	ND		0.50		ug/L			05/05/17 20:56	1
Styrene	ND		0.50		ug/L			05/05/17 20:56	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 20:56	1
Toluene	ND		0.20		ug/L			05/05/17 20:56	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 20:56	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 20:56	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 20:56	1
Trichloroethene	ND		0.20		ug/L			05/05/17 20:56	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/17 20:56	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 20:56	1
Vinyl chloride	ND		0.020		ug/L			05/05/17 20:56	1

Client Sample ID: 0417-24
Date Collected: 04/25/17 16:30
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/05/17 20:56*	*1*
Trifluorotoluene (Surr)	*89*		*74 - 118*		*05/05/17 20:56*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 20:56*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/05/17 20:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*05/05/17 20:56*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**39**		1.1		mg/L		05/01/17 17:57	05/02/17 13:21	1
Iron	**0.37**		0.30		mg/L		05/01/17 17:57	05/02/17 13:21	1
Magnesium	**56**		1.1		mg/L		05/01/17 17:57	05/02/17 13:21	1
Manganese	**0.050**		0.020		mg/L		05/01/17 17:57	05/02/17 13:21	1
Potassium	**11**		3.3		mg/L		05/01/17 17:57	05/02/17 13:21	1
Sodium	**32**		2.0		mg/L		05/01/17 17:57	05/02/17 13:21	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Arsenic	**0.0070**		0.0010		mg/L		05/01/17 17:57	05/02/17 10:59	1
Barium	**0.033**		0.0012		mg/L		05/01/17 17:57	05/02/17 10:59	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Chromium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Cobalt	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Copper	**0.0021**		0.0020		mg/L		05/01/17 17:57	05/02/17 10:59	1
Lead	**0.0023**		0.00080		mg/L		05/01/17 17:57	05/02/17 10:59	1
Nickel	ND		0.0030		mg/L		05/01/17 17:57	05/02/17 10:59	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 10:59	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 10:59	1
Vanadium	ND		0.0040		mg/L		05/01/17 17:57	05/02/17 10:59	1
Zinc	**0.23**		0.0070		mg/L		05/01/17 17:57	05/02/17 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 15:35	1
Chloride	**43**		0.90		mg/L			05/06/17 15:35	1
Sulfate	**17**		1.2		mg/L			05/06/17 15:35	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**0.37**		0.15		mg/L			05/09/17 19:42	1
Total Organic Carbon	**2.2**		1.0		mg/L			05/08/17 19:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**400**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-27
Date Collected: 04/25/17 17:43
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 21:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/17 21:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 21:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 21:25	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 21:25	1
1,1-Dichloroethene	ND		0.10		ug/L			05/05/17 21:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 21:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 21:25	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 21:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 21:25	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 21:25	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 21:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 21:25	1
2-Butanone	ND		15		ug/L			05/05/17 21:25	1
2-Hexanone	ND		2.0		ug/L			05/05/17 21:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 21:25	1
Acetone	**2.9**		2.0		ug/L			05/05/17 21:25	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 21:25	1
Benzene	ND		0.20		ug/L			05/05/17 21:25	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 21:25	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 21:25	1
Bromoform	ND		0.50		ug/L			05/05/17 21:25	1
Bromomethane	ND		1.0		ug/L			05/05/17 21:25	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 21:25	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 21:25	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 21:25	1
Chloroethane	ND		0.50		ug/L			05/05/17 21:25	1
Chloroform	ND		0.20		ug/L			05/05/17 21:25	1
Chloromethane	ND		0.30		ug/L			05/05/17 21:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 21:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 21:25	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 21:25	1
Dibromomethane	ND		0.20		ug/L			05/05/17 21:25	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 21:25	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 21:25	1
Methyl iodide	ND		0.50		ug/L			05/05/17 21:25	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 21:25	1
o-Xylene	ND		0.50		ug/L			05/05/17 21:25	1
Styrene	ND		0.50		ug/L			05/05/17 21:25	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 21:25	1
Toluene	ND		0.20		ug/L			05/05/17 21:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 21:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 21:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 21:25	1
Trichloroethene	ND		0.20		ug/L			05/05/17 21:25	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/17 21:25	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 21:25	1
Vinyl chloride	ND		0.020		ug/L			05/05/17 21:25	1

Client Sample ID: 0417-27
Date Collected: 04/25/17 17:43
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/05/17 21:25*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/05/17 21:25*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*05/05/17 21:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/05/17 21:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*05/05/17 21:25*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		05/01/17 17:57	05/02/17 13:24	1
Iron	ND		0.30		mg/L		05/01/17 17:57	05/02/17 13:24	1
Magnesium	**62**		1.1		mg/L		05/01/17 17:57	05/02/17 13:24	1
Manganese	**0.20**		0.020		mg/L		05/01/17 17:57	05/02/17 13:24	1
Potassium	**8.6**		3.3		mg/L		05/01/17 17:57	05/02/17 13:24	1
Sodium	**38**		2.0		mg/L		05/01/17 17:57	05/02/17 13:24	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Arsenic	**0.011**		0.0010		mg/L		05/01/17 17:57	05/02/17 11:04	1
Barium	**0.047**		0.0012		mg/L		05/01/17 17:57	05/02/17 11:04	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Chromium	**0.00055**		0.00040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Cobalt	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Copper	ND		0.0020		mg/L		05/01/17 17:57	05/02/17 11:04	1
Lead	ND		0.00080		mg/L		05/01/17 17:57	05/02/17 11:04	1
Nickel	ND		0.0030		mg/L		05/01/17 17:57	05/02/17 11:04	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 11:04	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 11:04	1
Vanadium	ND		0.0040		mg/L		05/01/17 17:57	05/02/17 11:04	1
Zinc	ND		0.0070		mg/L		05/01/17 17:57	05/02/17 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 15:50	1
Chloride	**67**		0.90		mg/L			05/06/17 15:50	1
Sulfate	**27**		1.2		mg/L			05/06/17 15:50	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:43	1
Total Organic Carbon	**2.5**		1.0		mg/L			05/08/17 19:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**530**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client Sample ID: 0417-28
Date Collected: 04/25/17 18:38
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 21:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/17 21:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 21:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 21:55	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 21:55	1
1,1-Dichloroethene	ND		0.10		ug/L			05/05/17 21:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 21:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 21:55	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 21:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 21:55	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 21:55	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 21:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 21:55	1
2-Butanone	ND		15		ug/L			05/05/17 21:55	1
2-Hexanone	ND		2.0		ug/L			05/05/17 21:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 21:55	1
Acetone	**2.0**		2.0		ug/L			05/05/17 21:55	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 21:55	1
Benzene	ND		0.20		ug/L			05/05/17 21:55	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 21:55	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 21:55	1
Bromoform	ND		0.50		ug/L			05/05/17 21:55	1
Bromomethane	ND		1.0		ug/L			05/05/17 21:55	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 21:55	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 21:55	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 21:55	1
Chloroethane	ND		0.50		ug/L			05/05/17 21:55	1
Chloroform	ND		0.20		ug/L			05/05/17 21:55	1
Chloromethane	ND		0.30		ug/L			05/05/17 21:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 21:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 21:55	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 21:55	1
Dibromomethane	ND		0.20		ug/L			05/05/17 21:55	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 21:55	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 21:55	1
Methyl iodide	ND		0.50		ug/L			05/05/17 21:55	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 21:55	1
o-Xylene	ND		0.50		ug/L			05/05/17 21:55	1
Styrene	ND		0.50		ug/L			05/05/17 21:55	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 21:55	1
Toluene	ND		0.20		ug/L			05/05/17 21:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 21:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 21:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 21:55	1
Trichloroethene	ND		0.20		ug/L			05/05/17 21:55	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/17 21:55	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 21:55	1
Vinyl chloride	ND		0.020		ug/L			05/05/17 21:55	1

Client Sample ID: 0417-28

Date Collected: 04/25/17 18:38
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*75 - 125*		*05/05/17 21:55*	*1*
Trifluorotoluene (Surr)	*82*		*74 - 118*		*05/05/17 21:55*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*05/05/17 21:55*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*		*05/05/17 21:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*05/05/17 21:55*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**75**		1.1		mg/L		05/01/17 17:57	05/02/17 13:27	1
Iron	ND		0.30		mg/L		05/01/17 17:57	05/02/17 13:27	1
Magnesium	**47**		1.1		mg/L		05/01/17 17:57	05/02/17 13:27	1
Manganese	ND		0.020		mg/L		05/01/17 17:57	05/02/17 13:27	1
Potassium	**6.1**		3.3		mg/L		05/01/17 17:57	05/02/17 13:27	1
Sodium	**34**		2.0		mg/L		05/01/17 17:57	05/02/17 13:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Arsenic	**0.0057**		0.0010		mg/L		05/01/17 17:57	05/02/17 11:08	1
Barium	**0.024**		0.0012		mg/L		05/01/17 17:57	05/02/17 11:08	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Chromium	**0.0081**		0.00040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Cobalt	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Copper	ND		0.0020		mg/L		05/01/17 17:57	05/02/17 11:08	1
Lead	ND		0.00080		mg/L		05/01/17 17:57	05/02/17 11:08	1
Nickel	ND		0.0030		mg/L		05/01/17 17:57	05/02/17 11:08	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 11:08	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 11:08	1
Vanadium	**0.0047**		0.0040		mg/L		05/01/17 17:57	05/02/17 11:08	1
Zinc	ND		0.0070		mg/L		05/01/17 17:57	05/02/17 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 16:06	1
Chloride	**62**		0.90		mg/L			05/06/17 16:06	1
Sulfate	**40**		1.2		mg/L			05/06/17 16:06	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**1.2**	**F1**	0.15		mg/L			05/09/17 19:50	1
Total Organic Carbon	**2.2**		1.0		mg/L			05/09/17 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			05/04/17 14:17	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			05/04/17 14:17	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/04/17 14:17	1
Total Dissolved Solids	**500**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

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

Lab Sample ID: MB 580-245121/4
Matrix: Water
Analysis Batch: 245121

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 14:17	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/17 14:17	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/17 14:17	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/17 14:17	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/17 14:17	1
1,1-Dichloroethene	ND		0.10		ug/L			05/05/17 14:17	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/17 14:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/17 14:17	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/17 14:17	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/17 14:17	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/17 14:17	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/17 14:17	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/17 14:17	1
2-Butanone	ND		15		ug/L			05/05/17 14:17	1
2-Hexanone	ND		2.0		ug/L			05/05/17 14:17	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/05/17 14:17	1
Acetone	ND		2.0		ug/L			05/05/17 14:17	1
Acrylonitrile	ND		5.0		ug/L			05/05/17 14:17	1
Benzene	ND		0.20		ug/L			05/05/17 14:17	1
Bromochloromethane	ND		0.20		ug/L			05/05/17 14:17	1
Bromodichloromethane	ND		0.20		ug/L			05/05/17 14:17	1
Bromoform	ND		0.50		ug/L			05/05/17 14:17	1
Bromomethane	ND		1.0		ug/L			05/05/17 14:17	1
Carbon disulfide	ND		0.20		ug/L			05/05/17 14:17	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/17 14:17	1
Chlorobenzene	ND		0.20		ug/L			05/05/17 14:17	1
Chloroethane	ND		0.50		ug/L			05/05/17 14:17	1
Chloroform	ND		0.20		ug/L			05/05/17 14:17	1
Chloromethane	ND		0.30		ug/L			05/05/17 14:17	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 14:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/17 14:17	1
Dibromochloromethane	ND		0.20		ug/L			05/05/17 14:17	1
Dibromomethane	ND		0.20		ug/L			05/05/17 14:17	1
Ethylbenzene	ND		0.20		ug/L			05/05/17 14:17	1
m,p-Xylene	ND		0.50		ug/L			05/05/17 14:17	1
Methyl iodide	ND		0.50		ug/L			05/05/17 14:17	1
Methylene Chloride	ND		0.50		ug/L			05/05/17 14:17	1
o-Xylene	ND		0.50		ug/L			05/05/17 14:17	1
Styrene	ND		0.50		ug/L			05/05/17 14:17	1
Tetrachloroethene	ND		0.50		ug/L			05/05/17 14:17	1
Toluene	ND		0.20		ug/L			05/05/17 14:17	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/17 14:17	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/17 14:17	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/17 14:17	1
Trichloroethene	ND		0.20		ug/L			05/05/17 14:17	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/17 14:17	1
Vinyl acetate	ND		1.0		ug/L			05/05/17 14:17	1
Vinyl chloride	ND		0.020		ug/L			05/05/17 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*05/05/17 14:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*05/05/17 14:17*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 14:17*	*1*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/05/17 14:17*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*05/05/17 14:17*	*1*

Lab Sample ID: LCS 580-245121/5
Matrix: Water
Analysis Batch: 245121

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.12		ug/L		102	68 - 139
1,1,1-Trichloroethane	5.00	5.53		ug/L		111	56 - 150
1,1,2,2-Tetrachloroethane	5.00	5.00		ug/L		100	60 - 134
1,1,2-Trichloroethane	5.00	5.12		ug/L		102	62 - 137
1,1-Dichloroethane	5.00	5.65		ug/L		113	68 - 135
1,1-Dichloroethene	5.00	5.48		ug/L		110	64 - 125
1,2,3-Trichloropropane	5.00	4.86		ug/L		97	45 - 150
1,2-Dibromo-3-Chloropropane	5.00	5.08		ug/L		102	34 - 150
1,2-Dibromoethane	5.00	5.19		ug/L		104	56 - 146
1,2-Dichlorobenzene	5.00	5.26		ug/L		105	73 - 120
1,2-Dichloroethane	5.00	5.64		ug/L		113	63 - 150
1,2-Dichloropropane	5.00	5.63		ug/L		113	72 - 120
1,4-Dichlorobenzene	5.00	5.30		ug/L		106	77 - 120
2-Butanone	25.0	25.6		ug/L		103	30 - 150
2-Hexanone	25.0	25.3		ug/L		101	25 - 150
4-Methyl-2-pentanone	25.0	25.9		ug/L		104	36 - 150
Acetone	25.0	23.2		ug/L		93	20 - 138
Acrylonitrile	50.0	54.6		ug/L		109	55 - 134
Benzene	5.00	5.92		ug/L		118	73 - 120
Bromochloromethane	5.00	5.62		ug/L		112	71 - 131
Bromodichloromethane	5.00	5.67		ug/L		113	62 - 150
Bromoform	5.00	5.02		ug/L		100	51 - 137
Bromomethane	5.00	5.27		ug/L		105	61 - 135
Carbon disulfide	5.00	4.91		ug/L		98	65 - 128
Carbon tetrachloride	5.00	5.57		ug/L		111	54 - 150
Chlorobenzene	5.00	5.30		ug/L		106	74 - 114
Chloroethane	5.00	5.26		ug/L		105	58 - 130
Chloroform	5.00	5.61		ug/L		112	71 - 130
Chloromethane	5.00	5.10		ug/L		102	40 - 150
cis-1,2-Dichloroethene	5.00	5.61		ug/L		112	73 - 130
cis-1,3-Dichloropropene	5.00	5.27		ug/L		105	54 - 150
Dibromochloromethane	5.00	5.08		ug/L		102	46 - 150
Dibromomethane	5.00	5.61		ug/L		112	65 - 137
Ethylbenzene	5.00	4.96		ug/L		99	74 - 125
m,p-Xylene	5.00	5.41		ug/L		108	73 - 130
Methyl iodide	5.00	5.42		ug/L		108	47 - 145
Methylene Chloride	5.00	5.76		ug/L		115	58 - 134
o-Xylene	5.00	4.81		ug/L		96	80 - 139
Styrene	5.00	5.60		ug/L		112	68 - 136
Tetrachloroethene	5.00	5.13		ug/L		103	67 - 123
Toluene	5.00	5.00		ug/L		100	70 - 126
trans-1,2-Dichloroethene	5.00	5.48		ug/L		110	69 - 124
trans-1,3-Dichloropropene	5.00	5.20		ug/L		104	40 - 150

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

Lab Sample ID: LCS 580-245121/5
Matrix: Water
Analysis Batch: 245121

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	4.73		ug/L		95	20 - 150
Trichloroethene	5.00	5.51		ug/L		110	72 - 123
Trichlorofluoromethane	5.00	4.59		ug/L		92	60 - 150
Vinyl acetate	12.5	16.9		ug/L		135	30 - 150
Vinyl chloride	5.00	5.29		ug/L		106	59 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*
Dibromofluoromethane (Surr)	*105*		*42 - 132*
Toluene-d8 (Surr)	*93*		*75 - 125*
Trifluorotoluene (Surr)	*87*		*74 - 118*

Lab Sample ID: LCSD 580-245121/6
Matrix: Water
Analysis Batch: 245121

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.07		ug/L		101	68 - 139	1	20
1,1,1-Trichloroethane	5.00	5.62		ug/L		112	56 - 150	1	29
1,1,2,2-Tetrachloroethane	5.00	5.17		ug/L		103	60 - 134	3	25
1,1,2-Trichloroethane	5.00	5.20		ug/L		104	62 - 137	2	30
1,1-Dichloroethane	5.00	5.56		ug/L		111	68 - 135	2	27
1,1-Dichloroethene	5.00	5.55		ug/L		111	64 - 125	1	28
1,2,3-Trichloropropane	5.00	5.05		ug/L		101	45 - 150	4	20
1,2-Dibromo-3-Chloropropane	5.00	5.28		ug/L		106	34 - 150	4	20
1,2-Dibromoethane	5.00	5.20		ug/L		104	56 - 146	0	20
1,2-Dichlorobenzene	5.00	5.25		ug/L		105	73 - 120	0	14
1,2-Dichloroethane	5.00	5.76		ug/L		115	63 - 150	2	29
1,2-Dichloropropane	5.00	5.79		ug/L		116	72 - 120	3	20
1,4-Dichlorobenzene	5.00	5.31		ug/L		106	77 - 120	0	11
2-Butanone	25.0	27.1		ug/L		108	30 - 150	5	35
2-Hexanone	25.0	26.9		ug/L		108	25 - 150	6	28
4-Methyl-2-pentanone	25.0	26.7		ug/L		107	36 - 150	3	34
Acetone	25.0	21.9		ug/L		88	20 - 138	6	35
Acrylonitrile	50.0	59.4		ug/L		119	55 - 134	8	35
Benzene	5.00	6.00		ug/L		120	73 - 120	1	20
Bromochloromethane	5.00	5.63		ug/L		113	71 - 131	0	20
Bromodichloromethane	5.00	5.71		ug/L		114	62 - 150	1	20
Bromoform	5.00	5.14		ug/L		103	51 - 137	2	20
Bromomethane	5.00	5.46		ug/L		109	61 - 135	4	31
Carbon disulfide	5.00	5.06		ug/L		101	65 - 128	3	32
Carbon tetrachloride	5.00	5.55		ug/L		111	54 - 150	0	30
Chlorobenzene	5.00	5.25		ug/L		105	74 - 114	1	12
Chloroethane	5.00	5.38		ug/L		108	58 - 130	2	35
Chloroform	5.00	5.59		ug/L		112	71 - 130	0	20
Chloromethane	5.00	5.23		ug/L		105	40 - 150	2	31
cis-1,2-Dichloroethene	5.00	5.60		ug/L		112	73 - 130	0	20

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

Lab Sample ID: LCSD 580-245121/6
Matrix: Water
Analysis Batch: 245121

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			5.00	5.35		ug/L		107	54 - 150	1	28
Dibromochloromethane			5.00	5.16		ug/L		103	46 - 150	2	20
Dibromomethane			5.00	5.80		ug/L		116	65 - 137	3	20
Ethylbenzene			5.00	4.90		ug/L		98	74 - 125	1	20
m,p-Xylene			5.00	5.39		ug/L		108	73 - 130	0	20
Methyl iodide			5.00	5.66		ug/L		113	47 - 145	4	35
Methylene Chloride			5.00	5.95		ug/L		119	58 - 134	3	29
o-Xylene			5.00	4.79		ug/L		96	80 - 139	0	20
Styrene			5.00	5.62		ug/L		112	68 - 136	0	20
Tetrachloroethene			5.00	5.04		ug/L		101	67 - 123	2	20
Toluene			5.00	4.92		ug/L		98	70 - 126	2	20
trans-1,2-Dichloroethene			5.00	5.55		ug/L		111	69 - 124	1	27
trans-1,3-Dichloropropene			5.00	5.26		ug/L		105	40 - 150	1	30
trans-1,4-Dichloro-2-butene			5.00	5.12		ug/L		102	20 - 150	8	20
Trichloroethene			5.00	5.58		ug/L		112	72 - 123	1	20
Trichlorofluoromethane			5.00	4.88		ug/L		98	60 - 150	6	31
Vinyl acetate			12.5	17.4		ug/L		139	30 - 150	3	35
Vinyl chloride			5.00	5.54		ug/L		111	59 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*
Dibromofluoromethane (Surr)	*104*		*42 - 132*
Toluene-d8 (Surr)	*92*		*75 - 125*
Trifluorotoluene (Surr)	*86*		*74 - 118*

Lab Sample ID: MB 580-245364/4
Matrix: Water
Analysis Batch: 245364

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50		ug/L			05/09/17 14:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*05/09/17 14:17*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*05/09/17 14:17*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*05/09/17 14:17*	*1*
Toluene-d8 (Surr)	*91*		*75 - 125*		*05/09/17 14:17*	*1*
Trifluorotoluene (Surr)	*82*		*74 - 118*		*05/09/17 14:17*	*1*

Lab Sample ID: LCS 580-245364/5
Matrix: Water
Analysis Batch: 245364

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane			5.00	5.73		ug/L		115	60 - 150

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

Lab Sample ID: LCS 580-245364/5
Matrix: Water
Analysis Batch: 245364

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*
Dibromofluoromethane (Surr)	*106*		*42 - 132*
Toluene-d8 (Surr)	*89*		*75 - 125*
Trifluorotoluene (Surr)	*80*		*74 - 118*

Lab Sample ID: LCSD 580-245364/6
Matrix: Water
Analysis Batch: 245364

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			5.00	5.31		ug/L		106	60 - 150	8	31

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*
Dibromofluoromethane (Surr)	*105*		*42 - 132*
Toluene-d8 (Surr)	*89*		*75 - 125*
Trifluorotoluene (Surr)	*78*		*74 - 118*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-244520/22-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		04/28/17 14:39	05/01/17 14:14	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 14:14	1
Magnesium	ND		1.1		mg/L		04/28/17 14:39	05/01/17 14:14	1
Manganese	ND		0.020		mg/L		04/28/17 14:39	05/01/17 14:14	1
Potassium	ND		3.3		mg/L		04/28/17 14:39	05/01/17 14:14	1
Sodium	ND		2.0		mg/L		04/28/17 14:39	05/01/17 14:14	1

Lab Sample ID: LCS 580-244520/23-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium			20.0	20.2		mg/L		101	80 - 120		
Iron			22.0	22.2		mg/L		101	80 - 120		
Magnesium			20.0	20.1		mg/L		101	80 - 120		
Manganese			1.00	1.01		mg/L		101	80 - 120		
Potassium			20.0	20.1		mg/L		100	80 - 120		
Sodium			20.0	19.6		mg/L		98	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-244520/24-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.3		mg/L		101	80 - 120	0	20
Iron	22.0	22.1		mg/L		101	80 - 120	0	20
Magnesium	20.0	20.2		mg/L		101	80 - 120	0	20
Manganese	1.00	1.01		mg/L		101	80 - 120	0	20
Potassium	20.0	20.1		mg/L		101	80 - 120	0	20
Sodium	20.0	19.7		mg/L		98	80 - 120	0	20

Lab Sample ID: MB 580-244671/17-A
Matrix: Water
Analysis Batch: 244736

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/01/17 17:57	05/02/17 12:37	1
Iron	ND		0.30		mg/L		05/01/17 17:57	05/02/17 12:37	1
Magnesium	ND		1.1		mg/L		05/01/17 17:57	05/02/17 12:37	1
Manganese	ND		0.020		mg/L		05/01/17 17:57	05/02/17 12:37	1
Potassium	ND		3.3		mg/L		05/01/17 17:57	05/02/17 12:37	1
Sodium	ND		2.0		mg/L		05/01/17 17:57	05/02/17 12:37	1

Lab Sample ID: LCS 580-244671/18-A
Matrix: Water
Analysis Batch: 244736

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.4		mg/L		102	80 - 120
Iron	22.0	21.7		mg/L		99	80 - 120
Magnesium	20.0	19.9		mg/L		99	80 - 120
Manganese	1.00	1.00		mg/L		100	80 - 120
Potassium	20.0	20.6		mg/L		103	80 - 120
Sodium	20.0	21.2		mg/L		106	80 - 120

Lab Sample ID: LCSD 580-244671/19-A
Matrix: Water
Analysis Batch: 244736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.8		mg/L		104	80 - 120	2	20
Iron	22.0	22.0		mg/L		100	80 - 120	1	20
Magnesium	20.0	20.1		mg/L		100	80 - 120	1	20
Manganese	1.00	1.02		mg/L		102	80 - 120	1	20
Potassium	20.0	20.9		mg/L		104	80 - 120	1	20
Sodium	20.0	21.6		mg/L		108	80 - 120	2	20

Lab Sample ID: 580-67845-2 MS
Matrix: Water
Analysis Batch: 244736

Client Sample ID: 0417-31
Prep Type: Dissolved
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	140		20.0	156	4	mg/L		65	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-67845-2 MS
Matrix: Water
Analysis Batch: 244736

Client Sample ID: 0417-31
Prep Type: Dissolved
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		22.0	21.6		mg/L		98	75 - 125
Magnesium	54		20.0	70.9		mg/L		86	75 - 125
Manganese	ND		1.00	0.991		mg/L		99	75 - 125
Potassium	5.6		20.0	26.6		mg/L		105	75 - 125
Sodium	28		20.0	48.3		mg/L		101	75 - 125

Lab Sample ID: 580-67845-2 MSD
Matrix: Water
Analysis Batch: 244736

Client Sample ID: 0417-31
Prep Type: Dissolved
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	140		20.0	156	4	mg/L		66	75 - 125	0	20
Iron	ND		22.0	21.9		mg/L		100	75 - 125	2	20
Magnesium	54		20.0	72.7		mg/L		95	75 - 125	2	20
Manganese	ND		1.00	1.00		mg/L		100	75 - 125	1	20
Potassium	5.6		20.0	27.0		mg/L		107	75 - 125	2	20
Sodium	28		20.0	48.3		mg/L		100	75 - 125	0	20

Lab Sample ID: 580-67845-2 DU
Matrix: Water
Analysis Batch: 244736

Client Sample ID: 0417-31
Prep Type: Dissolved
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	140		144		mg/L		0.6	20
Iron	ND		ND		mg/L		NC	20
Magnesium	54		54.2		mg/L		1	20
Manganese	ND		ND		mg/L		NC	20
Potassium	5.6		5.71		mg/L		1	20
Sodium	28		28.5		mg/L		1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-244520/22-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Arsenic	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 11:22	1
Barium	ND		0.0012		mg/L		04/28/17 14:39	05/01/17 11:22	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Chromium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 11:22	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 11:22	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 11:22	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 11:22	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-244520/22-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 11:22	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 11:22	1

Lab Sample ID: LCS 580-244520/23-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.11		mg/L		104	80 - 120
Arsenic	4.00	4.08		mg/L		102	80 - 120
Barium	4.00	4.19		mg/L		105	80 - 120
Beryllium	0.100	0.0981		mg/L		98	80 - 120
Cadmium	0.100	0.104		mg/L		104	80 - 120
Chromium	0.400	0.402		mg/L		101	80 - 120
Cobalt	1.00	0.968		mg/L		97	80 - 120
Copper	0.500	0.516		mg/L		103	80 - 120
Lead	1.00	0.961		mg/L		96	80 - 120
Nickel	1.00	1.03		mg/L		103	80 - 120
Selenium	4.00	4.18		mg/L		104	80 - 120
Silver	0.600	0.616		mg/L		103	80 - 120
Thallium	4.00	3.97		mg/L		99	80 - 120
Vanadium	1.00	0.999		mg/L		100	80 - 120
Zinc	4.00	4.09		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-244520/24-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.19		mg/L		106	80 - 120	3	20
Arsenic	4.00	4.22		mg/L		105	80 - 120	3	20
Barium	4.00	4.29		mg/L		107	80 - 120	3	20
Beryllium	0.100	0.102		mg/L		102	80 - 120	3	20
Cadmium	0.100	0.114		mg/L		114	80 - 120	9	20
Chromium	0.400	0.413		mg/L		103	80 - 120	3	20
Cobalt	1.00	0.997		mg/L		100	80 - 120	3	20
Copper	0.500	0.534		mg/L		107	80 - 120	4	20
Lead	1.00	0.969		mg/L		97	80 - 120	1	20
Nickel	1.00	1.05		mg/L		105	80 - 120	2	20
Selenium	4.00	4.26		mg/L		107	80 - 120	2	20
Silver	0.600	0.633		mg/L		105	80 - 120	3	20
Thallium	4.00	4.12		mg/L		103	80 - 120	4	20
Vanadium	1.00	1.03		mg/L		103	80 - 120	3	20
Zinc	4.00	4.23		mg/L		106	80 - 120	3	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-244671/17-A
Matrix: Water
Analysis Batch: 244801

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Arsenic	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 11:55	1
Barium	ND		0.0012		mg/L		05/01/17 17:57	05/02/17 11:55	1
Beryllium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Cadmium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Chromium	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Cobalt	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Copper	ND		0.0020		mg/L		05/01/17 17:57	05/02/17 11:55	1
Lead	ND		0.00080		mg/L		05/01/17 17:57	05/02/17 11:55	1
Nickel	ND		0.0030		mg/L		05/01/17 17:57	05/02/17 11:55	1
Selenium	ND		0.0080		mg/L		05/01/17 17:57	05/02/17 11:55	1
Silver	ND		0.00040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Thallium	ND		0.0010		mg/L		05/01/17 17:57	05/02/17 11:55	1
Vanadium	ND		0.0040		mg/L		05/01/17 17:57	05/02/17 11:55	1
Zinc	ND		0.0070		mg/L		05/01/17 17:57	05/02/17 11:55	1

Lab Sample ID: LCS 580-244671/18-A
Matrix: Water
Analysis Batch: 244801

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.08		mg/L		103	80 - 120
Arsenic	4.00	4.06		mg/L		102	80 - 120
Barium	4.00	4.11		mg/L		103	80 - 120
Beryllium	0.100	0.103		mg/L		103	80 - 120
Cadmium	0.100	0.104		mg/L		104	80 - 120
Chromium	0.400	0.398		mg/L		100	80 - 120
Cobalt	1.00	0.959		mg/L		96	80 - 120
Copper	0.500	0.507		mg/L		101	80 - 120
Lead	1.00	0.951		mg/L		95	80 - 120
Nickel	1.00	0.995		mg/L		99	80 - 120
Selenium	4.00	4.14		mg/L		103	80 - 120
Silver	0.600	0.595		mg/L		99	80 - 120
Thallium	4.00	3.75		mg/L		94	80 - 120
Vanadium	1.00	0.997		mg/L		100	80 - 120
Zinc	4.00	4.05		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-244671/19-A
Matrix: Water
Analysis Batch: 244801

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.08		mg/L		103	80 - 120	0	20
Arsenic	4.00	4.07		mg/L		102	80 - 120	0	20
Barium	4.00	4.12		mg/L		103	80 - 120	0	20
Beryllium	0.100	0.101		mg/L		101	80 - 120	2	20
Cadmium	0.100	0.103		mg/L		103	80 - 120	1	20
Chromium	0.400	0.402		mg/L		101	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-244671/19-A
Matrix: Water
Analysis Batch: 244801

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	0.986		mg/L		99	80 - 120	3	20
Copper			0.500	0.509		mg/L		102	80 - 120	0	20
Lead			1.00	0.958		mg/L		96	80 - 120	1	20
Nickel			1.00	1.00		mg/L		100	80 - 120	1	20
Selenium			4.00	4.17		mg/L		104	80 - 120	1	20
Silver			0.600	0.605		mg/L		101	80 - 120	2	20
Thallium			4.00	3.77		mg/L		94	80 - 120	1	20
Vanadium			1.00	1.01		mg/L		101	80 - 120	1	20
Zinc			4.00	4.04		mg/L		101	80 - 120	0	20

Lab Sample ID: 580-67845-2 MS
Matrix: Water
Analysis Batch: 244801

Client Sample ID: 0417-31
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.26		mg/L		109	80 - 120
Arsenic	0.0015		4.00	4.40		mg/L		110	80 - 120
Barium	0.038		4.00	4.49		mg/L		111	80 - 120
Beryllium	ND		0.100	0.109		mg/L		109	80 - 120
Cadmium	ND		0.100	0.109		mg/L		109	80 - 120
Chromium	0.0096		0.400	0.441		mg/L		108	80 - 120
Cobalt	ND		1.00	1.04		mg/L		104	80 - 120
Copper	ND		0.500	0.540		mg/L		108	80 - 120
Lead	ND		1.00	1.04		mg/L		104	80 - 120
Nickel	0.0059		1.00	1.10		mg/L		109	80 - 120
Selenium	ND		4.00	4.47		mg/L		112	80 - 120
Silver	ND		0.600	0.639		mg/L		106	80 - 120
Thallium	ND		4.00	4.15		mg/L		104	80 - 120
Vanadium	ND		1.00	1.08		mg/L		108	80 - 120
Zinc	ND		4.00	4.41		mg/L		110	80 - 120

Lab Sample ID: 580-67845-2 MSD
Matrix: Water
Analysis Batch: 244801

Client Sample ID: 0417-31
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.32		mg/L		111	80 - 120	2	20
Arsenic	0.0015		4.00	4.41		mg/L		110	80 - 120	0	20
Barium	0.038		4.00	4.50		mg/L		112	80 - 120	0	20
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120	4	20
Cadmium	ND		0.100	0.111		mg/L		111	80 - 120	2	20
Chromium	0.0096		0.400	0.455		mg/L		111	80 - 120	3	20
Cobalt	ND		1.00	1.06		mg/L		106	80 - 120	2	20
Copper	ND		0.500	0.542		mg/L		108	80 - 120	0	20
Lead	ND		1.00	1.05		mg/L		105	80 - 120	0	20
Nickel	0.0059		1.00	1.10		mg/L		109	80 - 120	0	20
Selenium	ND		4.00	4.53		mg/L		113	80 - 120	1	20
Silver	ND		0.600	0.641		mg/L		107	80 - 120	0	20
Thallium	ND		4.00	4.15		mg/L		104	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-67845-2 MSD
Matrix: Water
Analysis Batch: 244801

Client Sample ID: 0417-31
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	1.10		mg/L		109	80 - 120	1	20
Zinc	ND		4.00	4.36		mg/L		109	80 - 120	1	20

Lab Sample ID: 580-67845-2 DU
Matrix: Water
Analysis Batch: 244801

Client Sample ID: 0417-31
Prep Type: Total Recoverable
Prep Batch: 244671

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0015		0.00136		mg/L		9	20
Barium	0.038		0.0374		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0096		0.00945		mg/L		2	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0059		0.00573		mg/L		4	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-245231/3
Matrix: Water
Analysis Batch: 245231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 10:33	1
Chloride	ND		0.90		mg/L			05/06/17 10:33	1
Sulfate	ND		1.2		mg/L			05/06/17 10:33	1

Lab Sample ID: LCS 580-245231/4
Matrix: Water
Analysis Batch: 245231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.77		mg/L		95	90 - 110
Chloride	50.0	50.2		mg/L		100	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-245231/5
Matrix: Water
Analysis Batch: 245231

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.75		mg/L		95	90 - 110	0	15
Chloride	50.0	49.9		mg/L		100	90 - 110	1	15
Sulfate	50.0	49.6		mg/L		99	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-245192/1-A
Matrix: Water
Analysis Batch: 245193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1

Lab Sample ID: LCS 580-245192/2-A
Matrix: Water
Analysis Batch: 245193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.19		mg/L		109	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-245426/14
Matrix: Water
Analysis Batch: 245426

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:07	1

Lab Sample ID: MB 580-245426/48
Matrix: Water
Analysis Batch: 245426

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:47	1

Lab Sample ID: LCS 580-245426/15
Matrix: Water
Analysis Batch: 245426

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.956		mg/L		96	90 - 110

Lab Sample ID: LCS 580-245426/49
Matrix: Water
Analysis Batch: 245426

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.950		mg/L		95	90 - 110

Lab Sample ID: LCSD 580-245426/16
Matrix: Water
Analysis Batch: 245426

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.960		mg/L		96	90 - 110	0	20

Lab Sample ID: LCSD 580-245426/50
Matrix: Water
Analysis Batch: 245426

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.946		mg/L		95	90 - 110	0	20

Lab Sample ID: 580-67845-8 MS
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	1.2	F1	0.500	1.59	F1	mg/L		79	90 - 110		

Lab Sample ID: 580-67845-8 MSD
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.2	F1	0.500	1.58	F1	mg/L		78	90 - 110	1	20

Lab Sample ID: 580-67845-8 DU
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	1.2	F1	1.19		mg/L		0.2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-245003/2
Matrix: Water
Analysis Batch: 245003

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	104		mg/L		104	85 - 115		

Lab Sample ID: 580-67845-1 DU
Matrix: Water
Analysis Batch: 245003

Client Sample ID: 0417-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	430		423		mg/L		0.6	17
Bicarbonate Alkalinity as CaCO3	430		423		mg/L		0.6	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-244616/1
Matrix: Water
Analysis Batch: 244616

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/01/17 12:18	1

Lab Sample ID: LCS 580-244616/2
Matrix: Water
Analysis Batch: 244616

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

Lab Sample ID: MB 580-244749/1
Matrix: Water
Analysis Batch: 244749

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/02/17 14:54	1

Lab Sample ID: LCS 580-244749/2
Matrix: Water
Analysis Batch: 244749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1040		mg/L		104	80 - 120

Method: SM 5220D - COD

Lab Sample ID: MB 580-244908/3-A
Matrix: Water
Analysis Batch: 244909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244908

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Lab Sample ID: LCS 580-244908/4-A
Matrix: Water
Analysis Batch: 244909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	70.5		mg/L		94	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-245329/3
Matrix: Water
Analysis Batch: 245329

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/08/17 19:21	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-245329/4
Matrix: Water
Analysis Batch: 245329

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.3		mg/L		103	85 - 115

Lab Sample ID: MB 580-245469/3
Matrix: Water
Analysis Batch: 245469

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/09/17 13:06	1

Lab Sample ID: LCS 580-245469/4
Matrix: Water
Analysis Batch: 245469

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.0		mg/L		100	85 - 115

Lab Sample ID: 580-67845-8 MS
Matrix: Water
Analysis Batch: 245469

Client Sample ID: 0417-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.2		10.0	12.0		mg/L		98	85 - 115

Lab Sample ID: 580-67845-8 MSD
Matrix: Water
Analysis Batch: 245469

Client Sample ID: 0417-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.2		10.0	12.3		mg/L		101	85 - 115	3	20

Lab Sample ID: 580-67845-8 DU
Matrix: Water
Analysis Batch: 245469

Client Sample ID: 0417-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.2		2.19		mg/L		0	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-19

Date Collected: 04/25/17 10:50
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 18:31	TL1	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 15:08	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 12:46	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 14:31	RSB	TAL SEA
Total/NA	Analysis	300.0		10	245231	05/08/17 09:14	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		5	245426	05/09/17 19:37	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245329	05/08/17 19:21	Z1T	TAL SEA

Client Sample ID: 0417-31

Date Collected: 04/25/17 11:00
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 19:00	TL1	TAL SEA
Dissolved	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Dissolved	Analysis	6010C		1	244736	05/02/17 12:46	HJM	TAL SEA
Total Recoverable	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	244801	05/02/17 12:09	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 14:47	RSB	TAL SEA
Total/NA	Analysis	300.0		10	245231	05/08/17 09:30	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		5	245426	05/09/17 19:39	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245329	05/08/17 19:21	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-22

Date Collected: 04/25/17 12:32
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 19:29	TL1	TAL SEA
Dissolved	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Dissolved	Analysis	6010C		1	244736	05/02/17 13:14	HJM	TAL SEA
Total Recoverable	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	244801	05/02/17 10:50	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 15:03	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		5	245426	05/09/17 19:40	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245329	05/08/17 19:21	Z1T	TAL SEA

Client Sample ID: 0417-23

Date Collected: 04/25/17 14:05
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 19:58	TL1	TAL SEA
Dissolved	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Dissolved	Analysis	6010C		1	244736	05/02/17 13:17	HJM	TAL SEA
Total Recoverable	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	244801	05/02/17 10:54	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 15:19	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		10	245426	05/09/17 19:41	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245329	05/08/17 19:21	Z1T	TAL SEA

Client Sample ID: 0417-97

Date Collected: 04/25/17 15:27
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 20:27	TL1	TAL SEA
Total/NA	Analysis	8260C	DL	10	245364	05/09/17 15:44	CJ	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-24

Date Collected: 04/25/17 16:30
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 20:56	TL1	TAL SEA
Dissolved	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Dissolved	Analysis	6010C		1	244736	05/02/17 13:21	HJM	TAL SEA
Total Recoverable	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	244801	05/02/17 10:59	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 15:35	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:42	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245329	05/08/17 19:21	Z1T	TAL SEA

Client Sample ID: 0417-27

Date Collected: 04/25/17 17:43
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 21:25	TL1	TAL SEA
Dissolved	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Dissolved	Analysis	6010C		1	244736	05/02/17 13:24	HJM	TAL SEA
Total Recoverable	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	244801	05/02/17 11:04	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 15:50	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:43	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245329	05/08/17 19:21	Z1T	TAL SEA

Client Sample ID: 0417-28

Date Collected: 04/25/17 18:38
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	245121	05/05/17 21:55	TL1	TAL SEA
Dissolved	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Client Sample ID: 0417-28

Date Collected: 04/25/17 18:38
Date Received: 04/26/17 15:00

Lab Sample ID: 580-67845-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	244736	05/02/17 13:27	HJM	TAL SEA
Total Recoverable	Prep	3005A			244671	05/01/17 17:57	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	244801	05/02/17 11:08	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 16:06	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:50	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245003	05/04/17 14:17	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245469	05/09/17 13:06	Z1T	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility

TestAmerica Job ID: 580-67845-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-67845-1	0417-19	Water	04/25/17 10:50	04/26/17 15:00
580-67845-2	0417-31	Water	04/25/17 11:00	04/26/17 15:00
580-67845-3	0417-22	Water	04/25/17 12:32	04/26/17 15:00
580-67845-4	0417-23	Water	04/25/17 14:05	04/26/17 15:00
580-67845-5	0417-97	Water	04/25/17 15:27	04/26/17 15:00
580-67845-6	0417-24	Water	04/25/17 16:30	04/26/17 15:00
580-67845-7	0417-27	Water	04/25/17 17:43	04/26/17 15:00
580-67845-8	0417-28	Water	04/25/17 18:38	04/26/17 15:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

Loc: 580
67845

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Venchiarutti	4/26/17	33201
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 **of** 1
2405 140th Ave NE			
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Cathy Gamble	
Project Name and Location (State)	**Billing Contact**		
Cowlitz Solid Waste Facility	Dan. V.		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	TDS	Cl, F, SO4	N - Lombo	B2 Cr LL
0417-19	4/25/17	1050		X			3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-31		1100											X	X	X	X	X	X	X	X	X	X
0417-22		1232											X	X	X	X	X	X	X	X	X	X
0417-23		1405											X	X	X	X	X	X	X	X	X	X
0417-97		1527								3												X
0417-24		1630					3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-27		1743											X	X	X	X	X	X	X	X	X	X
0417-28		1838											X	X	X	X	X	X	X	X	X	X
Trip blank		—								6												

Special Instructions/ Conditions of Receipt

Cooler
☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Grabo	4/26/17	905	Francisco Luna Jr.	4/26/17	1500
2. Relinquished By Sign/Print	**Date**	**Time**	**2. Received By Sign/Print**	**Date**	**Time**

580-67845 Chain of Custody

4NARY – Retu

TB Air Cooler Cor 3.1 °C Unc 3.3 °C
Cooler Dsc Lg Bluelabel @Lab —
Wet/Packs Packing Bubble

TB Air Cooler Cor 3.5 °C Unc 3.7 °C
Cooler Dsc Lg Bluelabel @Lab —
Wet/Packs Packing Bubble

TB Air Cooler Cor 5.1 °C Unc 5.3 °C
Cooler Dsc Lg Bluelabel @Lab —
Wet/Packs Packing Bubble

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-67845-1

Login Number: 67845
List Number: 1
Creator: Ponce-McDermott, Monica

List Source: TestAmerica Seattle

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-67838-1
Client Project/Site: Coupeville Solid Waste Facility GW

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
5/15/2017 2:36:28 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Job ID: 580-67838-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 4/25/2017 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 4.5º C, 6.1º C, 6.1º C, 6.2º C and 6.5º C.

Receipt Exceptions
The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): 0417-100 (580-67838-10) and 0417-99 (580-67838-11). The container labels of sample -10 list sample ID E10D, while the COC lists 4017-100. The container labels of sample -11 list sample ID E9D, while the COC lists 0417-99. The samples have been logged in per the COC.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-244494 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0417-20 (580-67838-1), 0417-21 (580-67838-2), 0417-32 (580-67838-3), 0417-15 (580-67838-4), 0417-16 (580-67838-5), 0417-14 (580-67838-6), 0417-10 (580-67838-7), 0417-11 (580-67838-8), 0417-13 (580-67838-9), 0417-100 (580-67838-10), 0417-99 (580-67838-11), 0417-04 (580-67838-12), 0417-03 (580-67838-13), 0417-02 (580-67838-14), 0417-01 (580-67838-15), 0417-26 (580-67838-16), Trip Blank (580-67838-17) and (CCVIS 580-244494/2).

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-244494 was outside criteria for the following analyte(s): 4-Methyl-2-pentanone, 2-Butanone, Chloroethane and 2-Hexanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The method blank for analytical batch 580-244494 contained Acetone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

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

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-20
Date Collected: 04/24/17 11:05
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 16:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 16:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 16:12	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 16:12	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 16:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 16:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 16:12	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 16:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 16:12	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 16:12	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 16:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 16:12	1
2-Butanone	ND		15		ug/L			04/28/17 16:12	1
2-Hexanone	ND		2.0		ug/L			04/28/17 16:12	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 16:12	1
Acetone	**2.9**		2.0		ug/L			04/28/17 16:12	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 16:12	1
Benzene	ND		0.20		ug/L			04/28/17 16:12	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 16:12	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 16:12	1
Bromoform	ND		0.50		ug/L			04/28/17 16:12	1
Bromomethane	ND		1.0		ug/L			04/28/17 16:12	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 16:12	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 16:12	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 16:12	1
Chloroethane	ND		0.50		ug/L			04/28/17 16:12	1
Chloroform	ND		0.20		ug/L			04/28/17 16:12	1
Chloromethane	ND		0.30		ug/L			04/28/17 16:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 16:12	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 16:12	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 16:12	1
Dibromomethane	ND		0.20		ug/L			04/28/17 16:12	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 16:12	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 16:12	1
Methyl iodide	ND		0.50		ug/L			04/28/17 16:12	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 16:12	1
o-Xylene	ND		0.50		ug/L			04/28/17 16:12	1
Styrene	ND		0.50		ug/L			04/28/17 16:12	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 16:12	1
Toluene	ND		0.20		ug/L			04/28/17 16:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 16:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 16:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 16:12	1
Trichloroethene	ND		0.20		ug/L			04/28/17 16:12	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 16:12	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 16:12	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 16:12	1

Client Sample ID: 0417-20
Date Collected: 04/24/17 11:05
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*04/28/17 16:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*04/28/17 16:12*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*04/28/17 16:12*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*04/28/17 16:12*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*04/28/17 16:12*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		04/28/17 09:00	05/01/17 13:06	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:06	1
Magnesium	**27**		1.1		mg/L		04/28/17 09:00	05/01/17 13:06	1
Manganese	**0.046**		0.020		mg/L		04/28/17 09:00	05/01/17 13:06	1
Potassium	**6.2**		3.3		mg/L		04/28/17 09:00	05/01/17 13:06	1
Sodium	**22**		2.0		mg/L		04/28/17 09:00	05/01/17 13:06	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Arsenic	**0.0080**		0.0010		mg/L		04/28/17 09:00	04/28/17 15:48	1
Barium	**0.026**		0.0012		mg/L		04/28/17 09:00	04/28/17 15:48	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Cr	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 15:48	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 15:48	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 15:48	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 15:48	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 15:48	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 15:48	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 13:43	1
Chloride	**37**		0.90		mg/L			05/05/17 13:43	1
Sulfate	**24**		1.2		mg/L			05/05/17 13:43	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND	F1	0.15		mg/L			05/09/17 19:11	1
Total Organic Carbon	**1.2**		1.0		mg/L			05/06/17 12:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**380**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client Sample ID: 0417-21
Date Collected: 04/24/17 12:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 16:42	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 16:42	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 16:42	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 16:42	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 16:42	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 16:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 16:42	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 16:42	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 16:42	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 16:42	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 16:42	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 16:42	1
2-Butanone	ND		15		ug/L			04/28/17 16:42	1
2-Hexanone	ND		2.0		ug/L			04/28/17 16:42	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 16:42	1
Acetone	**2.5**		2.0		ug/L			04/28/17 16:42	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 16:42	1
Benzene	ND		0.20		ug/L			04/28/17 16:42	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 16:42	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 16:42	1
Bromoform	ND		0.50		ug/L			04/28/17 16:42	1
Bromomethane	ND		1.0		ug/L			04/28/17 16:42	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 16:42	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 16:42	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 16:42	1
Chloroethane	ND		0.50		ug/L			04/28/17 16:42	1
Chloroform	ND		0.20		ug/L			04/28/17 16:42	1
Chloromethane	ND		0.30		ug/L			04/28/17 16:42	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 16:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 16:42	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 16:42	1
Dibromomethane	ND		0.20		ug/L			04/28/17 16:42	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 16:42	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 16:42	1
Methyl iodide	ND		0.50		ug/L			04/28/17 16:42	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 16:42	1
o-Xylene	ND		0.50		ug/L			04/28/17 16:42	1
Styrene	ND		0.50		ug/L			04/28/17 16:42	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 16:42	1
Toluene	ND		0.20		ug/L			04/28/17 16:42	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 16:42	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 16:42	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 16:42	1
Trichloroethene	ND		0.20		ug/L			04/28/17 16:42	1
Trichlorofluoromethane	**0.88**		0.50		ug/L			04/28/17 16:42	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 16:42	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 16:42	1

Client Sample ID: 0417-21
Date Collected: 04/24/17 12:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*04/28/17 16:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*04/28/17 16:42*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*04/28/17 16:42*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*04/28/17 16:42*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*04/28/17 16:42*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		04/28/17 09:00	05/01/17 13:34	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:34	1
Magnesium	**49**		1.1		mg/L		04/28/17 09:00	05/01/17 13:34	1
Manganese	ND		0.020		mg/L		04/28/17 09:00	05/01/17 13:34	1
Potassium	**6.2**		3.3		mg/L		04/28/17 09:00	05/01/17 13:34	1
Sodium	**28**		2.0		mg/L		04/28/17 09:00	05/01/17 13:34	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Arsenic	**0.0028**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:31	1
Barium	**0.032**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:31	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Cr	**0.011**		0.00040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:31	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:31	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 16:31	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:31	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:31	1
Vanadium	**0.0058**		0.0040		mg/L		04/28/17 09:00	04/28/17 16:31	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 14:31	1
Chloride	**39**		0.90		mg/L			05/05/17 14:31	1
Sulfate	**43**		1.2		mg/L			05/05/17 14:31	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	**5.7**		0.75		mg/L			05/09/17 19:15	5
Total Organic Carbon	**1.4**		1.0		mg/L			05/06/17 12:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**440**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**440**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**620**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-32
Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 17:11	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 17:11	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 17:11	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 17:11	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 17:11	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 17:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 17:11	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 17:11	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 17:11	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 17:11	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 17:11	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 17:11	1
2-Butanone	ND		15		ug/L			04/28/17 17:11	1
2-Hexanone	ND		2.0		ug/L			04/28/17 17:11	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 17:11	1
Acetone	**3.2**		2.0		ug/L			04/28/17 17:11	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 17:11	1
Benzene	ND		0.20		ug/L			04/28/17 17:11	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 17:11	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 17:11	1
Bromoform	ND		0.50		ug/L			04/28/17 17:11	1
Bromomethane	ND		1.0		ug/L			04/28/17 17:11	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 17:11	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 17:11	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 17:11	1
Chloroethane	ND		0.50		ug/L			04/28/17 17:11	1
Chloroform	ND		0.20		ug/L			04/28/17 17:11	1
Chloromethane	ND		0.30		ug/L			04/28/17 17:11	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 17:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 17:11	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 17:11	1
Dibromomethane	ND		0.20		ug/L			04/28/17 17:11	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 17:11	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 17:11	1
Methyl iodide	ND		0.50		ug/L			04/28/17 17:11	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 17:11	1
o-Xylene	ND		0.50		ug/L			04/28/17 17:11	1
Styrene	ND		0.50		ug/L			04/28/17 17:11	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 17:11	1
Toluene	ND		0.20		ug/L			04/28/17 17:11	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 17:11	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 17:11	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 17:11	1
Trichloroethene	ND		0.20		ug/L			04/28/17 17:11	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 17:11	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 17:11	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 17:11	1

Client Sample ID: 0417-32
Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*04/28/17 17:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*04/28/17 17:11*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*04/28/17 17:11*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*04/28/17 17:11*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*04/28/17 17:11*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**73**		1.1		mg/L		04/28/17 09:00	05/01/17 13:38	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:38	1
Magnesium	**27**		1.1		mg/L		04/28/17 09:00	05/01/17 13:38	1
Manganese	**0.029**		0.020		mg/L		04/28/17 09:00	05/01/17 13:38	1
Potassium	**6.4**		3.3		mg/L		04/28/17 09:00	05/01/17 13:38	1
Sodium	**22**		2.0		mg/L		04/28/17 09:00	05/01/17 13:38	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Arsenic	**0.0080**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:35	1
Barium	**0.027**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:35	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Cr	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:35	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:35	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 16:35	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:35	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:35	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 16:35	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 14:47	1
Chloride	**37**		0.90		mg/L			05/05/17 14:47	1
Sulfate	**24**		1.2		mg/L			05/05/17 14:47	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:16	1
Total Organic Carbon	**1.1**		1.0		mg/L			05/06/17 12:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**380**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-15
Date Collected: 04/24/17 13:35
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 17:40	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 17:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 17:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 17:40	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 17:40	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 17:40	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 17:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 17:40	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 17:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 17:40	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 17:40	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 17:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 17:40	1
2-Butanone	ND		15		ug/L			04/28/17 17:40	1
2-Hexanone	ND		2.0		ug/L			04/28/17 17:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 17:40	1
Acetone	**4.4**		2.0		ug/L			04/28/17 17:40	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 17:40	1
Benzene	ND		0.20		ug/L			04/28/17 17:40	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 17:40	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 17:40	1
Bromoform	ND		0.50		ug/L			04/28/17 17:40	1
Bromomethane	ND		1.0		ug/L			04/28/17 17:40	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 17:40	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 17:40	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 17:40	1
Chloroethane	ND		0.50		ug/L			04/28/17 17:40	1
Chloroform	ND		0.20		ug/L			04/28/17 17:40	1
Chloromethane	ND		0.30		ug/L			04/28/17 17:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 17:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 17:40	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 17:40	1
Dibromomethane	ND		0.20		ug/L			04/28/17 17:40	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 17:40	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 17:40	1
Methyl iodide	ND		0.50		ug/L			04/28/17 17:40	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 17:40	1
o-Xylene	ND		0.50		ug/L			04/28/17 17:40	1
Styrene	ND		0.50		ug/L			04/28/17 17:40	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 17:40	1
Toluene	ND		0.20		ug/L			04/28/17 17:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 17:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 17:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 17:40	1
Trichloroethene	ND		0.20		ug/L			04/28/17 17:40	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 17:40	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 17:40	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 17:40	1

Client Sample ID: 0417-15
Date Collected: 04/24/17 13:35
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*04/28/17 17:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*04/28/17 17:40*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*04/28/17 17:40*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*04/28/17 17:40*	*1*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*04/28/17 17:40*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		04/28/17 09:00	05/01/17 13:41	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:41	1
Magnesium	**100**		1.1		mg/L		04/28/17 09:00	05/01/17 13:41	1
Manganese	**0.28**		0.020		mg/L		04/28/17 09:00	05/01/17 13:41	1
Potassium	**10**		3.3		mg/L		04/28/17 09:00	05/01/17 13:41	1
Sodium	**48**		2.0		mg/L		04/28/17 09:00	05/01/17 13:41	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Arsenic	**0.0058**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:39	1
Barium	**0.10**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:39	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Cr	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:39	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:39	1
Nickel	**0.0090**		0.0030		mg/L		04/28/17 09:00	04/28/17 16:39	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:39	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:39	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 16:39	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 15:34	1
Chloride	**120**		9.0		mg/L			05/05/17 19:00	10
Sulfate	**140**		12		mg/L			05/05/17 19:00	10
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:18	1
Total Organic Carbon	**3.9**		1.0		mg/L			05/06/17 12:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**500**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**500**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**880**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	**14**		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-16
Date Collected: 04/24/17 14:35
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 18:09	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 18:09	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 18:09	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 18:09	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 18:09	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 18:09	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 18:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 18:09	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 18:09	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 18:09	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 18:09	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 18:09	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 18:09	1
2-Butanone	ND		15		ug/L			04/28/17 18:09	1
2-Hexanone	ND		2.0		ug/L			04/28/17 18:09	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 18:09	1
Acetone	**7.6**		2.0		ug/L			04/28/17 18:09	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 18:09	1
Benzene	ND		0.20		ug/L			04/28/17 18:09	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 18:09	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 18:09	1
Bromoform	ND		0.50		ug/L			04/28/17 18:09	1
Bromomethane	ND		1.0		ug/L			04/28/17 18:09	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 18:09	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 18:09	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 18:09	1
Chloroethane	ND		0.50		ug/L			04/28/17 18:09	1
Chloroform	ND		0.20		ug/L			04/28/17 18:09	1
Chloromethane	ND		0.30		ug/L			04/28/17 18:09	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 18:09	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 18:09	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 18:09	1
Dibromomethane	ND		0.20		ug/L			04/28/17 18:09	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 18:09	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 18:09	1
Methyl iodide	ND		0.50		ug/L			04/28/17 18:09	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 18:09	1
o-Xylene	ND		0.50		ug/L			04/28/17 18:09	1
Styrene	ND		0.50		ug/L			04/28/17 18:09	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 18:09	1
Toluene	ND		0.20		ug/L			04/28/17 18:09	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 18:09	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 18:09	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 18:09	1
Trichloroethene	ND		0.20		ug/L			04/28/17 18:09	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 18:09	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 18:09	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 18:09	1

Client Sample ID: 0417-16
Date Collected: 04/24/17 14:35
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*04/28/17 18:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*04/28/17 18:09*	*1*
Dibromofluoromethane (Surr)	*98*		*42 - 132*		*04/28/17 18:09*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*04/28/17 18:09*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*04/28/17 18:09*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**32**		1.1		mg/L		04/28/17 09:00	05/01/17 13:44	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:44	1
Magnesium	**29**		1.1		mg/L		04/28/17 09:00	05/01/17 13:44	1
Manganese	ND		0.020		mg/L		04/28/17 09:00	05/01/17 13:44	1
Potassium	ND		3.3		mg/L		04/28/17 09:00	05/01/17 13:44	1
Sodium	**9.9**		2.0		mg/L		04/28/17 09:00	05/01/17 13:44	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Arsenic	**0.0021**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:44	1
Barium	**0.013**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:44	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Cr	**0.0025**		0.00040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:44	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:44	1
Nickel	**0.0065**		0.0030		mg/L		04/28/17 09:00	04/28/17 16:44	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:44	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:44	1
Vanadium	**0.0044**		0.0040		mg/L		04/28/17 09:00	04/28/17 16:44	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 15:50	1
Chloride	**4.6**		0.90		mg/L			05/05/17 15:50	1
Sulfate	**9.9**		1.2		mg/L			05/05/17 15:50	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	**1.7**		0.15		mg/L			05/09/17 19:21	1
Total Organic Carbon	**2.4**		1.0		mg/L			05/06/17 12:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**190**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**190**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**250**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	**17**		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-14
Date Collected: 04/24/17 15:51
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 18:38	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 18:38	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 18:38	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 18:38	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 18:38	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 18:38	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 18:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 18:38	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 18:38	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 18:38	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 18:38	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 18:38	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 18:38	1
2-Butanone	ND		15		ug/L			04/28/17 18:38	1
2-Hexanone	ND		2.0		ug/L			04/28/17 18:38	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 18:38	1
Acetone	**2.4**		2.0		ug/L			04/28/17 18:38	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 18:38	1
Benzene	ND		0.20		ug/L			04/28/17 18:38	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 18:38	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 18:38	1
Bromoform	ND		0.50		ug/L			04/28/17 18:38	1
Bromomethane	ND		1.0		ug/L			04/28/17 18:38	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 18:38	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 18:38	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 18:38	1
Chloroethane	ND		0.50		ug/L			04/28/17 18:38	1
Chloroform	ND		0.20		ug/L			04/28/17 18:38	1
Chloromethane	ND		0.30		ug/L			04/28/17 18:38	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 18:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 18:38	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 18:38	1
Dibromomethane	ND		0.20		ug/L			04/28/17 18:38	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 18:38	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 18:38	1
Methyl iodide	ND		0.50		ug/L			04/28/17 18:38	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 18:38	1
o-Xylene	ND		0.50		ug/L			04/28/17 18:38	1
Styrene	ND		0.50		ug/L			04/28/17 18:38	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 18:38	1
Toluene	ND		0.20		ug/L			04/28/17 18:38	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 18:38	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 18:38	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 18:38	1
Trichloroethene	ND		0.20		ug/L			04/28/17 18:38	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 18:38	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 18:38	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 18:38	1

Client Sample ID: 0417-14
Date Collected: 04/24/17 15:51
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*04/28/17 18:38*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*04/28/17 18:38*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*04/28/17 18:38*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*04/28/17 18:38*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*04/28/17 18:38*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**58**		1.1		mg/L		04/28/17 09:00	05/01/17 13:48	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:48	1
Magnesium	**71**		1.1		mg/L		04/28/17 09:00	05/01/17 13:48	1
Manganese	**0.16**		0.020		mg/L		04/28/17 09:00	05/01/17 13:48	1
Potassium	**10**		3.3		mg/L		04/28/17 09:00	05/01/17 13:48	1
Sodium	**45**		2.0		mg/L		04/28/17 09:00	05/01/17 13:48	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Arsenic	**0.0080**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:48	1
Barium	**0.061**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:48	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Cr	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:48	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:48	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 16:48	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:48	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:48	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 16:48	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 16:06	1
Chloride	**67**		0.90		mg/L			05/05/17 16:06	1
Sulfate	**35**		1.2		mg/L			05/05/17 16:06	1
Ammonia	**0.29**		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:22	1
Total Organic Carbon	**2.8**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**390**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**390**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**530**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-10
Date Collected: 04/24/17 17:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 19:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 19:07	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 19:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 19:07	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 19:07	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 19:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 19:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 19:07	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 19:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 19:07	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 19:07	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 19:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 19:07	1
2-Butanone	ND		15		ug/L			04/28/17 19:07	1
2-Hexanone	ND		2.0		ug/L			04/28/17 19:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 19:07	1
Acetone	**3.1**		2.0		ug/L			04/28/17 19:07	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 19:07	1
Benzene	ND		0.20		ug/L			04/28/17 19:07	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 19:07	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 19:07	1
Bromoform	ND		0.50		ug/L			04/28/17 19:07	1
Bromomethane	ND		1.0		ug/L			04/28/17 19:07	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 19:07	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 19:07	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 19:07	1
Chloroethane	ND		0.50		ug/L			04/28/17 19:07	1
Chloroform	ND		0.20		ug/L			04/28/17 19:07	1
Chloromethane	ND		0.30		ug/L			04/28/17 19:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 19:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 19:07	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 19:07	1
Dibromomethane	ND		0.20		ug/L			04/28/17 19:07	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 19:07	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 19:07	1
Methyl iodide	ND		0.50		ug/L			04/28/17 19:07	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 19:07	1
o-Xylene	ND		0.50		ug/L			04/28/17 19:07	1
Styrene	ND		0.50		ug/L			04/28/17 19:07	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 19:07	1
Toluene	ND		0.20		ug/L			04/28/17 19:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 19:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 19:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 19:07	1
Trichloroethene	ND		0.20		ug/L			04/28/17 19:07	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 19:07	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 19:07	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 19:07	1

Client Sample ID: 0417-10
Date Collected: 04/24/17 17:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*04/28/17 19:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*04/28/17 19:07*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*04/28/17 19:07*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*04/28/17 19:07*	*1*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*04/28/17 19:07*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**79**		1.1		mg/L		04/28/17 09:00	05/01/17 13:51	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:51	1
Magnesium	**55**		1.1		mg/L		04/28/17 09:00	05/01/17 13:51	1
Manganese	**0.16**		0.020		mg/L		04/28/17 09:00	05/01/17 13:51	1
Potassium	**7.5**		3.3		mg/L		04/28/17 09:00	05/01/17 13:51	1
Sodium	**37**		2.0		mg/L		04/28/17 09:00	05/01/17 13:51	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Arsenic	**0.0083**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:52	1
Barium	**0.042**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:52	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Cr	**0.00046**		0.00040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:52	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:52	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 16:52	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:52	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:52	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 16:52	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 11:21	1
Chloride	**72**	**F1**	0.90		mg/L			05/06/17 11:21	1
Sulfate	**31**		1.2		mg/L			05/06/17 11:21	1
Ammonia	**0.25**		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:23	1
Total Organic Carbon	**2.8**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**520**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-11
Date Collected: 04/24/17 18:05
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 19:36	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 19:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 19:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 19:36	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 19:36	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 19:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 19:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 19:36	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 19:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 19:36	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 19:36	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 19:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 19:36	1
2-Butanone	ND		15		ug/L			04/28/17 19:36	1
2-Hexanone	ND		2.0		ug/L			04/28/17 19:36	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 19:36	1
Acetone	**2.3**		2.0		ug/L			04/28/17 19:36	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 19:36	1
Benzene	ND		0.20		ug/L			04/28/17 19:36	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 19:36	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 19:36	1
Bromoform	ND		0.50		ug/L			04/28/17 19:36	1
Bromomethane	ND		1.0		ug/L			04/28/17 19:36	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 19:36	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 19:36	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 19:36	1
Chloroethane	ND		0.50		ug/L			04/28/17 19:36	1
Chloroform	ND		0.20		ug/L			04/28/17 19:36	1
Chloromethane	ND		0.30		ug/L			04/28/17 19:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 19:36	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 19:36	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 19:36	1
Dibromomethane	ND		0.20		ug/L			04/28/17 19:36	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 19:36	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 19:36	1
Methyl iodide	ND		0.50		ug/L			04/28/17 19:36	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 19:36	1
o-Xylene	ND		0.50		ug/L			04/28/17 19:36	1
Styrene	ND		0.50		ug/L			04/28/17 19:36	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 19:36	1
Toluene	ND		0.20		ug/L			04/28/17 19:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 19:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 19:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 19:36	1
Trichloroethene	ND		0.20		ug/L			04/28/17 19:36	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 19:36	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 19:36	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 19:36	1

Client Sample ID: 0417-11
Date Collected: 04/24/17 18:05
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*04/28/17 19:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*04/28/17 19:36*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*04/28/17 19:36*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*04/28/17 19:36*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*04/28/17 19:36*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**82**		1.1		mg/L		04/28/17 09:00	05/01/17 13:54	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 13:54	1
Magnesium	**53**		1.1		mg/L		04/28/17 09:00	05/01/17 13:54	1
Manganese	**0.21**		0.020		mg/L		04/28/17 09:00	05/01/17 13:54	1
Potassium	**6.8**		3.3		mg/L		04/28/17 09:00	05/01/17 13:54	1
Sodium	**35**		2.0		mg/L		04/28/17 09:00	05/01/17 13:54	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Arsenic	**0.0057**		0.0010		mg/L		04/28/17 09:00	04/28/17 16:56	1
Barium	**0.030**		0.0012		mg/L		04/28/17 09:00	04/28/17 16:56	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Cr	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 16:56	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 16:56	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 16:56	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 16:56	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 16:56	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 16:56	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 12:08	1
Chloride	**60**		0.90		mg/L			05/06/17 12:08	1
Sulfate	**30**		1.2		mg/L			05/06/17 12:08	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:25	1
Total Organic Carbon	**2.7**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**520**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-13
Date Collected: 04/24/17 19:15
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 20:05	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 20:05	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 20:05	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 20:05	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 20:05	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 20:05	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 20:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 20:05	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 20:05	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 20:05	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 20:05	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 20:05	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 20:05	1
2-Butanone	ND		15		ug/L			04/28/17 20:05	1
2-Hexanone	ND		2.0		ug/L			04/28/17 20:05	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 20:05	1
Acetone	**11**		2.0		ug/L			04/28/17 20:05	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 20:05	1
Benzene	ND		0.20		ug/L			04/28/17 20:05	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 20:05	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 20:05	1
Bromoform	ND		0.50		ug/L			04/28/17 20:05	1
Bromomethane	ND		1.0		ug/L			04/28/17 20:05	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 20:05	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 20:05	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 20:05	1
Chloroethane	ND		0.50		ug/L			04/28/17 20:05	1
Chloroform	ND		0.20		ug/L			04/28/17 20:05	1
Chloromethane	ND		0.30		ug/L			04/28/17 20:05	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 20:05	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 20:05	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 20:05	1
Dibromomethane	ND		0.20		ug/L			04/28/17 20:05	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 20:05	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 20:05	1
Methyl iodide	ND		0.50		ug/L			04/28/17 20:05	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 20:05	1
o-Xylene	ND		0.50		ug/L			04/28/17 20:05	1
Styrene	ND		0.50		ug/L			04/28/17 20:05	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 20:05	1
Toluene	ND		0.20		ug/L			04/28/17 20:05	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 20:05	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 20:05	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 20:05	1
Trichloroethene	ND		0.20		ug/L			04/28/17 20:05	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 20:05	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 20:05	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 20:05	1

Client Sample ID: 0417-13
Date Collected: 04/24/17 19:15
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*04/28/17 20:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*04/28/17 20:05*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*04/28/17 20:05*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*04/28/17 20:05*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*04/28/17 20:05*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**78**		1.1		mg/L		04/28/17 14:39	05/01/17 14:23	1
Iron	**0.36**		0.30		mg/L		04/28/17 14:39	05/01/17 14:23	1
Magnesium	**48**		1.1		mg/L		04/28/17 14:39	05/01/17 14:23	1
Manganese	**0.11**		0.020		mg/L		04/28/17 14:39	05/01/17 14:23	1
Potassium	**6.1**		3.3		mg/L		04/28/17 14:39	05/01/17 14:23	1
Sodium	**31**		2.0		mg/L		04/28/17 14:39	05/01/17 14:23	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00045**		0.00040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Arsenic	**0.0061**		0.0010		mg/L		04/28/17 14:39	05/01/17 11:36	1
Barium	**0.033**		0.0012		mg/L		04/28/17 14:39	05/01/17 11:36	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Cr	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 11:36	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 11:36	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 11:36	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 11:36	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 11:36	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 11:36	1
Zinc	**0.052**		0.0070		mg/L		04/28/17 14:39	05/01/17 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 12:24	1
Chloride	**57**		0.90		mg/L			05/06/17 12:24	1
Sulfate	**44**		1.2		mg/L			05/06/17 12:24	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:26	1
Total Organic Carbon	**2.4**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**490**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-100
Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 20:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 20:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 20:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 20:34	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 20:34	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 20:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 20:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 20:34	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 20:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 20:34	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 20:34	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 20:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 20:34	1
2-Butanone	ND		15		ug/L			04/28/17 20:34	1
2-Hexanone	ND		2.0		ug/L			04/28/17 20:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 20:34	1
Acetone	**8.0**		2.0		ug/L			04/28/17 20:34	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 20:34	1
Benzene	ND		0.20		ug/L			04/28/17 20:34	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 20:34	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 20:34	1
Bromoform	ND		0.50		ug/L			04/28/17 20:34	1
Bromomethane	ND		1.0		ug/L			04/28/17 20:34	1
Carbon disulfide	**0.42**		0.20		ug/L			04/28/17 20:34	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 20:34	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 20:34	1
Chloroethane	ND		0.50		ug/L			04/28/17 20:34	1
Chloroform	ND		0.20		ug/L			04/28/17 20:34	1
Chloromethane	ND		0.30		ug/L			04/28/17 20:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 20:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 20:34	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 20:34	1
Dibromomethane	ND		0.20		ug/L			04/28/17 20:34	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 20:34	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 20:34	1
Methyl iodide	ND		0.50		ug/L			04/28/17 20:34	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 20:34	1
o-Xylene	ND		0.50		ug/L			04/28/17 20:34	1
Styrene	ND		0.50		ug/L			04/28/17 20:34	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 20:34	1
Toluene	ND		0.20		ug/L			04/28/17 20:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 20:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 20:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 20:34	1
Trichloroethene	ND		0.20		ug/L			04/28/17 20:34	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 20:34	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 20:34	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 20:34	1

Client Sample ID: 0417-100
Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-10
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		04/28/17 20:34	1
4-Bromofluorobenzene (Surr)	106		81 - 120		04/28/17 20:34	1
Dibromofluoromethane (Surr)	101		42 - 132		04/28/17 20:34	1
Toluene-d8 (Surr)	100		75 - 125		04/28/17 20:34	1
Trifluorotoluene (Surr)	86		74 - 118		04/28/17 20:34	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-99
Date Collected: 04/24/17 11:50
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 21:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 21:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 21:03	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 21:03	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 21:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 21:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 21:03	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 21:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 21:03	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 21:03	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 21:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 21:03	1
2-Butanone	ND		15		ug/L			04/28/17 21:03	1
2-Hexanone	ND		2.0		ug/L			04/28/17 21:03	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 21:03	1
Acetone	**5.9**		2.0		ug/L			04/28/17 21:03	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 21:03	1
Benzene	ND		0.20		ug/L			04/28/17 21:03	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 21:03	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 21:03	1
Bromoform	ND		0.50		ug/L			04/28/17 21:03	1
Bromomethane	ND		1.0		ug/L			04/28/17 21:03	1
Carbon disulfide	**0.89**		0.20		ug/L			04/28/17 21:03	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 21:03	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 21:03	1
Chloroethane	ND		0.50		ug/L			04/28/17 21:03	1
Chloroform	ND		0.20		ug/L			04/28/17 21:03	1
Chloromethane	ND		0.30		ug/L			04/28/17 21:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 21:03	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 21:03	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 21:03	1
Dibromomethane	ND		0.20		ug/L			04/28/17 21:03	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 21:03	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 21:03	1
Methyl iodide	ND		0.50		ug/L			04/28/17 21:03	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 21:03	1
o-Xylene	ND		0.50		ug/L			04/28/17 21:03	1
Styrene	ND		0.50		ug/L			04/28/17 21:03	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 21:03	1
Toluene	ND		0.20		ug/L			04/28/17 21:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 21:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 21:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 21:03	1
Trichloroethene	ND		0.20		ug/L			04/28/17 21:03	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 21:03	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 21:03	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 21:03	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-99
Date Collected: 04/24/17 11:50
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		46 - 150		04/28/17 21:03	1
4-Bromofluorobenzene (Surr)	103		81 - 120		04/28/17 21:03	1
Dibromofluoromethane (Surr)	98		42 - 132		04/28/17 21:03	1
Toluene-d8 (Surr)	100		75 - 125		04/28/17 21:03	1
Trifluorotoluene (Surr)	96		74 - 118		04/28/17 21:03	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-04
Date Collected: 04/24/17 12:30
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 21:32	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 21:32	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 21:32	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 21:32	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 21:32	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 21:32	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 21:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 21:32	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 21:32	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 21:32	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 21:32	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 21:32	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 21:32	1
2-Butanone	ND		15		ug/L			04/28/17 21:32	1
2-Hexanone	ND		2.0		ug/L			04/28/17 21:32	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 21:32	1
Acetone	**2.2**		2.0		ug/L			04/28/17 21:32	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 21:32	1
Benzene	ND		0.20		ug/L			04/28/17 21:32	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 21:32	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 21:32	1
Bromoform	ND		0.50		ug/L			04/28/17 21:32	1
Bromomethane	ND		1.0		ug/L			04/28/17 21:32	1
Carbon disulfide	**1.2**		0.20		ug/L			04/28/17 21:32	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 21:32	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 21:32	1
Chloroethane	ND		0.50		ug/L			04/28/17 21:32	1
Chloroform	ND		0.20		ug/L			04/28/17 21:32	1
Chloromethane	ND		0.30		ug/L			04/28/17 21:32	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 21:32	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 21:32	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 21:32	1
Dibromomethane	ND		0.20		ug/L			04/28/17 21:32	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 21:32	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 21:32	1
Methyl iodide	ND		0.50		ug/L			04/28/17 21:32	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 21:32	1
o-Xylene	ND		0.50		ug/L			04/28/17 21:32	1
Styrene	ND		0.50		ug/L			04/28/17 21:32	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 21:32	1
Toluene	ND		0.20		ug/L			04/28/17 21:32	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 21:32	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 21:32	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 21:32	1
Trichloroethene	ND		0.20		ug/L			04/28/17 21:32	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 21:32	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 21:32	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 21:32	1

Client Sample ID: 0417-04
Date Collected: 04/24/17 12:30
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*04/28/17 21:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*04/28/17 21:32*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*04/28/17 21:32*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*04/28/17 21:32*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*04/28/17 21:32*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**39**		1.1		mg/L		04/28/17 14:39	05/01/17 14:51	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 14:51	1
Magnesium	**28**		1.1		mg/L		04/28/17 14:39	05/01/17 14:51	1
Manganese	**0.072**		0.020		mg/L		04/28/17 14:39	05/01/17 14:51	1
Potassium	**10**		3.3		mg/L		04/28/17 14:39	05/01/17 14:51	1
Sodium	**33**		2.0		mg/L		04/28/17 14:39	05/01/17 14:51	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Arsenic	**0.015**		0.0010		mg/L		04/28/17 14:39	05/01/17 12:22	1
Barium	**0.037**		0.0012		mg/L		04/28/17 14:39	05/01/17 12:22	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Cr	**0.0012**		0.00040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 12:22	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 12:22	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 12:22	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 12:22	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 12:22	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 12:22	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 12:40	1
Chloride	**31**		0.90		mg/L			05/06/17 12:40	1
Sulfate	**13**		1.2		mg/L			05/06/17 12:40	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:27	1
Total Organic Carbon	**3.9**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**330**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-03
Date Collected: 04/24/17 13:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 22:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 22:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 22:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 22:01	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 22:01	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 22:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 22:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 22:01	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 22:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 22:01	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 22:01	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 22:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 22:01	1
2-Butanone	ND		15		ug/L			04/28/17 22:01	1
2-Hexanone	ND		2.0		ug/L			04/28/17 22:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 22:01	1
Acetone	**3.8**		2.0		ug/L			04/28/17 22:01	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 22:01	1
Benzene	ND		0.20		ug/L			04/28/17 22:01	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 22:01	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 22:01	1
Bromoform	ND		0.50		ug/L			04/28/17 22:01	1
Bromomethane	ND		1.0		ug/L			04/28/17 22:01	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 22:01	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 22:01	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 22:01	1
Chloroethane	ND		0.50		ug/L			04/28/17 22:01	1
Chloroform	ND		0.20		ug/L			04/28/17 22:01	1
Chloromethane	ND		0.30		ug/L			04/28/17 22:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 22:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 22:01	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 22:01	1
Dibromomethane	ND		0.20		ug/L			04/28/17 22:01	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 22:01	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 22:01	1
Methyl iodide	ND		0.50		ug/L			04/28/17 22:01	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 22:01	1
o-Xylene	ND		0.50		ug/L			04/28/17 22:01	1
Styrene	ND		0.50		ug/L			04/28/17 22:01	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 22:01	1
Toluene	ND		0.20		ug/L			04/28/17 22:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 22:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 22:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 22:01	1
Trichloroethene	ND		0.20		ug/L			04/28/17 22:01	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 22:01	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 22:01	1
Vinyl chloride	**0.026**		0.020		ug/L			04/28/17 22:01	1

Client Sample ID: 0417-03
Date Collected: 04/24/17 13:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*04/28/17 22:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*04/28/17 22:01*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*04/28/17 22:01*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*04/28/17 22:01*	*1*
Trifluorotoluene (Surr)	*95*		*74 - 118*		*04/28/17 22:01*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		04/28/17 14:39	05/01/17 14:55	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 14:55	1
Magnesium	**56**		1.1		mg/L		04/28/17 14:39	05/01/17 14:55	1
Manganese	ND		0.020		mg/L		04/28/17 14:39	05/01/17 14:55	1
Potassium	**6.3**		3.3		mg/L		04/28/17 14:39	05/01/17 14:55	1
Sodium	**31**		2.0		mg/L		04/28/17 14:39	05/01/17 14:55	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Arsenic	**0.0027**		0.0010		mg/L		04/28/17 14:39	05/01/17 12:27	1
Barium	**0.047**		0.0012		mg/L		04/28/17 14:39	05/01/17 12:27	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Cr	**0.0054**		0.00040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 12:27	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 12:27	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 12:27	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 12:27	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 12:27	1
Vanadium	**0.0060**		0.0040		mg/L		04/28/17 14:39	05/01/17 12:27	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 12:56	1
Chloride	**46**		0.90		mg/L			05/06/17 12:56	1
Sulfate	**44**		1.2		mg/L			05/06/17 12:56	1
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	**1.1**	**F1**	0.15		mg/L			05/09/17 19:28	1
Total Organic Carbon	**1.8**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**520**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**520**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**690**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-02
Date Collected: 04/24/17 14:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 22:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 22:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 22:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 22:31	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 22:31	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 22:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 22:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 22:31	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 22:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 22:31	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 22:31	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 22:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 22:31	1
2-Butanone	ND		15		ug/L			04/28/17 22:31	1
2-Hexanone	ND		2.0		ug/L			04/28/17 22:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 22:31	1
Acetone	**2.8**		2.0		ug/L			04/28/17 22:31	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 22:31	1
Benzene	ND		0.20		ug/L			04/28/17 22:31	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 22:31	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 22:31	1
Bromoform	ND		0.50		ug/L			04/28/17 22:31	1
Bromomethane	ND		1.0		ug/L			04/28/17 22:31	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 22:31	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 22:31	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 22:31	1
Chloroethane	ND		0.50		ug/L			04/28/17 22:31	1
Chloroform	ND		0.20		ug/L			04/28/17 22:31	1
Chloromethane	ND		0.30		ug/L			04/28/17 22:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 22:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 22:31	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 22:31	1
Dibromomethane	ND		0.20		ug/L			04/28/17 22:31	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 22:31	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 22:31	1
Methyl iodide	ND		0.50		ug/L			04/28/17 22:31	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 22:31	1
o-Xylene	ND		0.50		ug/L			04/28/17 22:31	1
Styrene	ND		0.50		ug/L			04/28/17 22:31	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 22:31	1
Toluene	ND		0.20		ug/L			04/28/17 22:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 22:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 22:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 22:31	1
Trichloroethene	ND		0.20		ug/L			04/28/17 22:31	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 22:31	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 22:31	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 22:31	1

Client Sample ID: 0417-02
Date Collected: 04/24/17 14:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-14
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*04/28/17 22:31*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*04/28/17 22:31*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*04/28/17 22:31*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*04/28/17 22:31*	*1*
Trifluorotoluene (Surr)	*93*		*74 - 118*		*04/28/17 22:31*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**70**		1.1		mg/L		04/28/17 14:39	05/01/17 14:58	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 14:58	1
Magnesium	**44**		1.1		mg/L		04/28/17 14:39	05/01/17 14:58	1
Manganese	**0.28**		0.020		mg/L		04/28/17 14:39	05/01/17 14:58	1
Potassium	**6.6**		3.3		mg/L		04/28/17 14:39	05/01/17 14:58	1
Sodium	**26**		2.0		mg/L		04/28/17 14:39	05/01/17 14:58	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Arsenic	**0.0065**		0.0010		mg/L		04/28/17 14:39	05/01/17 12:32	1
Barium	**0.030**		0.0012		mg/L		04/28/17 14:39	05/01/17 12:32	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Cr	**0.00064**		0.00040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 12:32	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 12:32	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 12:32	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 12:32	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 12:32	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 12:32	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 13:12	1
Chloride	**34**		0.90		mg/L			05/06/17 13:12	1
Sulfate	**16**		1.2		mg/L			05/06/17 13:12	1
Ammonia	**0.51**		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:32	1
Total Organic Carbon	**1.8**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**430**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-01
Date Collected: 04/24/17 14:50
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 22:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 22:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 22:59	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 22:59	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 22:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 22:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 22:59	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 22:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 22:59	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 22:59	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 22:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 22:59	1
2-Butanone	ND		15		ug/L			04/28/17 22:59	1
2-Hexanone	ND		2.0		ug/L			04/28/17 22:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 22:59	1
Acetone	**2.2**		2.0		ug/L			04/28/17 22:59	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 22:59	1
Benzene	ND		0.20		ug/L			04/28/17 22:59	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 22:59	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 22:59	1
Bromoform	ND		0.50		ug/L			04/28/17 22:59	1
Bromomethane	ND		1.0		ug/L			04/28/17 22:59	1
Carbon disulfide	**0.34**		0.20		ug/L			04/28/17 22:59	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 22:59	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 22:59	1
Chloroethane	ND		0.50		ug/L			04/28/17 22:59	1
Chloroform	ND		0.20		ug/L			04/28/17 22:59	1
Chloromethane	ND		0.30		ug/L			04/28/17 22:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 22:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 22:59	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 22:59	1
Dibromomethane	ND		0.20		ug/L			04/28/17 22:59	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 22:59	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 22:59	1
Methyl iodide	ND		0.50		ug/L			04/28/17 22:59	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 22:59	1
o-Xylene	ND		0.50		ug/L			04/28/17 22:59	1
Styrene	ND		0.50		ug/L			04/28/17 22:59	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 22:59	1
Toluene	ND		0.20		ug/L			04/28/17 22:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 22:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 22:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 22:59	1
Trichloroethene	ND		0.20		ug/L			04/28/17 22:59	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 22:59	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 22:59	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 22:59	1

Client Sample ID: 0417-01
Date Collected: 04/24/17 14:50
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*04/28/17 22:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*04/28/17 22:59*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*04/28/17 22:59*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*04/28/17 22:59*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*04/28/17 22:59*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**60**		1.1		mg/L		04/28/17 14:39	05/01/17 15:01	1
Iron	**0.32**		0.30		mg/L		04/28/17 14:39	05/01/17 15:01	1
Magnesium	**40**		1.1		mg/L		04/28/17 14:39	05/01/17 15:01	1
Manganese	**0.15**		0.020		mg/L		04/28/17 14:39	05/01/17 15:01	1
Potassium	**6.3**		3.3		mg/L		04/28/17 14:39	05/01/17 15:01	1
Sodium	**24**		2.0		mg/L		04/28/17 14:39	05/01/17 15:01	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Arsenic	**0.0061**		0.0010		mg/L		04/28/17 14:39	05/01/17 12:36	1
Barium	**0.025**		0.0012		mg/L		04/28/17 14:39	05/01/17 12:36	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Cr	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 12:36	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 12:36	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 12:36	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 12:36	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 12:36	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 12:36	1
Zinc	**0.061**		0.0070		mg/L		04/28/17 14:39	05/01/17 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 13:28	1
Chloride	**23**		0.90		mg/L			05/06/17 13:28	1
Sulfate	**21**		1.2		mg/L			05/06/17 13:28	1
Ammonia	ND		0.20		mg/L		05/02/17 08:55	05/02/17 08:55	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:35	1
Total Organic Carbon	**1.6**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**290**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**410**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-26
Date Collected: 04/24/17 15:45
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 23:28	1
1,1,1-Trichloroethane	**0.29**		0.20		ug/L			04/28/17 23:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 23:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 23:28	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 23:28	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 23:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 23:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 23:28	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 23:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 23:28	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 23:28	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 23:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 23:28	1
2-Butanone	ND		15		ug/L			04/28/17 23:28	1
2-Hexanone	ND		2.0		ug/L			04/28/17 23:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 23:28	1
Acetone	**3.2**		2.0		ug/L			04/28/17 23:28	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 23:28	1
Benzene	ND		0.20		ug/L			04/28/17 23:28	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 23:28	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 23:28	1
Bromoform	ND		0.50		ug/L			04/28/17 23:28	1
Bromomethane	ND		1.0		ug/L			04/28/17 23:28	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 23:28	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 23:28	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 23:28	1
Chloroethane	ND		0.50		ug/L			04/28/17 23:28	1
Chloroform	ND		0.20		ug/L			04/28/17 23:28	1
Chloromethane	ND		0.30		ug/L			04/28/17 23:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 23:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 23:28	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 23:28	1
Dibromomethane	ND		0.20		ug/L			04/28/17 23:28	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 23:28	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 23:28	1
Methyl iodide	ND		0.50		ug/L			04/28/17 23:28	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 23:28	1
o-Xylene	ND		0.50		ug/L			04/28/17 23:28	1
Styrene	ND		0.50		ug/L			04/28/17 23:28	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 23:28	1
Toluene	ND		0.20		ug/L			04/28/17 23:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 23:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 23:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 23:28	1
Trichloroethene	ND		0.20		ug/L			04/28/17 23:28	1
Trichlorofluoromethane	**1.5**		0.50		ug/L			04/28/17 23:28	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 23:28	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 23:28	1

Client Sample ID: 0417-26
Date Collected: 04/24/17 15:45
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-16
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*04/28/17 23:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*04/28/17 23:28*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*04/28/17 23:28*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*04/28/17 23:28*	*1*
Trifluorotoluene (Surr)	*98*		*74 - 118*		*04/28/17 23:28*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
2,4-D	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
2,4-DB	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
4-Nitrophenol	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
Dalapon	ND		0.42		ug/L		05/01/17 13:44	05/11/17 19:52	1
Dicamba	**2.2**		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
Dichlorprop	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
Dinoseb	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
MCPA	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
Mecoprop	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
Pentachlorophenol	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1
Silvex (2,4,5-TP)	ND		0.26		ug/L		05/01/17 13:44	05/11/17 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*120*		*51 - 150*	*05/01/17 13:44*	*05/11/17 19:52*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		04/28/17 14:39	05/01/17 15:05	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 15:05	1
Magnesium	**51**		1.1		mg/L		04/28/17 14:39	05/01/17 15:05	1
Manganese	ND		0.020		mg/L		04/28/17 14:39	05/01/17 15:05	1
Potassium	**6.4**		3.3		mg/L		04/28/17 14:39	05/01/17 15:05	1
Sodium	**28**		2.0		mg/L		04/28/17 14:39	05/01/17 15:05	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Arsenic	**0.0018**		0.0010		mg/L		04/28/17 14:39	05/01/17 12:41	1
Barium	**0.037**		0.0012		mg/L		04/28/17 14:39	05/01/17 12:41	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Cr	**0.014**		0.00040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 12:41	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 12:41	1
Nickel	**0.0047**		0.0030		mg/L		04/28/17 14:39	05/01/17 12:41	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 12:41	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 12:41	1
Vanadium	**0.0040**		0.0040		mg/L		04/28/17 14:39	05/01/17 12:41	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 12:41	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-26
Date Collected: 04/24/17 15:45
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-16
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 13:44	1
Chloride	**95**		0.90		mg/L			05/06/17 13:44	1
Sulfate	**41**		1.2		mg/L			05/06/17 13:44	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**12**		1.5		mg/L			05/09/17 19:36	10
Total Organic Carbon	**2.0**		1.0		mg/L			05/08/17 12:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			05/01/17 13:15	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			05/01/17 13:15	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/01/17 13:15	1
Total Dissolved Solids	**670**		10		mg/L			05/01/17 12:18	1
Chemical Oxygen Demand	**14**		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client Sample ID: Trip Blank
Date Collected: 04/24/17 00:01
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 15:44	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 15:44	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 15:44	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 15:44	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 15:44	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 15:44	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 15:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 15:44	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 15:44	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 15:44	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 15:44	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 15:44	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 15:44	1
2-Butanone	ND		15		ug/L			04/28/17 15:44	1
2-Hexanone	ND		2.0		ug/L			04/28/17 15:44	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 15:44	1
Acetone	**2.0**		2.0		ug/L			04/28/17 15:44	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 15:44	1
Benzene	ND		0.20		ug/L			04/28/17 15:44	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 15:44	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 15:44	1
Bromoform	ND		0.50		ug/L			04/28/17 15:44	1
Bromomethane	ND		1.0		ug/L			04/28/17 15:44	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 15:44	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 15:44	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 15:44	1
Chloroethane	ND		0.50		ug/L			04/28/17 15:44	1
Chloroform	ND		0.20		ug/L			04/28/17 15:44	1
Chloromethane	ND		0.30		ug/L			04/28/17 15:44	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 15:44	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 15:44	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 15:44	1
Dibromomethane	ND		0.20		ug/L			04/28/17 15:44	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 15:44	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 15:44	1
Methyl iodide	ND		0.50		ug/L			04/28/17 15:44	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 15:44	1
o-Xylene	ND		0.50		ug/L			04/28/17 15:44	1
Styrene	ND		0.50		ug/L			04/28/17 15:44	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 15:44	1
Toluene	ND		0.20		ug/L			04/28/17 15:44	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 15:44	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 15:44	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 15:44	1
Trichloroethene	ND		0.20		ug/L			04/28/17 15:44	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 15:44	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 15:44	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 15:44	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: Trip Blank
Date Collected: 04/24/17 00:01
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-17
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		46 - 150		04/28/17 15:44	1
4-Bromofluorobenzene (Surr)	104		81 - 120		04/28/17 15:44	1
Dibromofluoromethane (Surr)	102		42 - 132		04/28/17 15:44	1
Toluene-d8 (Surr)	99		75 - 125		04/28/17 15:44	1
Trifluorotoluene (Surr)	95		74 - 118		04/28/17 15:44	1

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

Lab Sample ID: MB 580-244494/4
Matrix: Water
Analysis Batch: 244494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 14:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/28/17 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/28/17 14:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/28/17 14:16	1
1,1-Dichloroethane	ND		0.20		ug/L			04/28/17 14:16	1
1,1-Dichloroethene	ND		0.10		ug/L			04/28/17 14:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/28/17 14:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/28/17 14:16	1
1,2-Dibromoethane	ND		0.10		ug/L			04/28/17 14:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/28/17 14:16	1
1,2-Dichloroethane	ND		0.20		ug/L			04/28/17 14:16	1
1,2-Dichloropropane	ND		0.20		ug/L			04/28/17 14:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/28/17 14:16	1
2-Butanone	ND		15		ug/L			04/28/17 14:16	1
2-Hexanone	ND		2.0		ug/L			04/28/17 14:16	1
4-Methyl-2-pentanone	ND		5.0		ug/L			04/28/17 14:16	1
Acetone	ND		2.0		ug/L			04/28/17 14:16	1
Acrylonitrile	ND		5.0		ug/L			04/28/17 14:16	1
Benzene	ND		0.20		ug/L			04/28/17 14:16	1
Bromochloromethane	ND		0.20		ug/L			04/28/17 14:16	1
Bromodichloromethane	ND		0.20		ug/L			04/28/17 14:16	1
Bromoform	ND		0.50		ug/L			04/28/17 14:16	1
Bromomethane	ND		1.0		ug/L			04/28/17 14:16	1
Carbon disulfide	ND		0.20		ug/L			04/28/17 14:16	1
Carbon tetrachloride	ND		0.20		ug/L			04/28/17 14:16	1
Chlorobenzene	ND		0.20		ug/L			04/28/17 14:16	1
Chloroethane	ND		0.50		ug/L			04/28/17 14:16	1
Chloroform	ND		0.20		ug/L			04/28/17 14:16	1
Chloromethane	ND		0.30		ug/L			04/28/17 14:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 14:16	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			04/28/17 14:16	1
Dibromochloromethane	ND		0.20		ug/L			04/28/17 14:16	1
Dibromomethane	ND		0.20		ug/L			04/28/17 14:16	1
Ethylbenzene	ND		0.20		ug/L			04/28/17 14:16	1
m,p-Xylene	ND		0.50		ug/L			04/28/17 14:16	1
Methyl iodide	ND		0.50		ug/L			04/28/17 14:16	1
Methylene Chloride	ND		0.50		ug/L			04/28/17 14:16	1
o-Xylene	ND		0.50		ug/L			04/28/17 14:16	1
Styrene	ND		0.50		ug/L			04/28/17 14:16	1
Tetrachloroethene	ND		0.50		ug/L			04/28/17 14:16	1
Toluene	ND		0.20		ug/L			04/28/17 14:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/28/17 14:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/28/17 14:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/28/17 14:16	1
Trichloroethene	ND		0.20		ug/L			04/28/17 14:16	1
Trichlorofluoromethane	ND		0.50		ug/L			04/28/17 14:16	1
Vinyl acetate	ND		1.0		ug/L			04/28/17 14:16	1
Vinyl chloride	ND		0.020		ug/L			04/28/17 14:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*46 - 150*		*04/28/17 14:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*04/28/17 14:16*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*04/28/17 14:16*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*04/28/17 14:16*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*04/28/17 14:16*	*1*

Lab Sample ID: LCS 580-244494/5
Matrix: Water
Analysis Batch: 244494

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	4.83		ug/L		97	68 - 139
1,1,1-Trichloroethane	5.00	5.22		ug/L		104	56 - 150
1,1,2,2-Tetrachloroethane	5.00	4.96		ug/L		99	60 - 134
1,1,2-Trichloroethane	5.00	4.78		ug/L		96	62 - 137
1,1-Dichloroethane	5.00	5.00		ug/L		100	68 - 135
1,1-Dichloroethene	5.00	4.75		ug/L		95	64 - 125
1,2,3-Trichloropropane	5.00	4.90		ug/L		98	45 - 150
1,2-Dibromo-3-Chloropropane	5.00	4.24		ug/L		85	34 - 150
1,2-Dibromoethane	5.00	4.81		ug/L		96	56 - 146
1,2-Dichlorobenzene	5.00	4.96		ug/L		99	73 - 120
1,2-Dichloroethane	5.00	4.93		ug/L		99	63 - 150
1,2-Dichloropropane	5.00	5.00		ug/L		100	72 - 120
1,4-Dichlorobenzene	5.00	5.33		ug/L		107	77 - 120
2-Butanone	25.0	21.8		ug/L		87	30 - 150
2-Hexanone	25.0	22.9		ug/L		92	25 - 150
4-Methyl-2-pentanone	25.0	22.6		ug/L		90	36 - 150
Acetone	25.0	22.5		ug/L		90	20 - 138
Acrylonitrile	50.0	44.7		ug/L		89	55 - 134
Benzene	5.00	5.38		ug/L		108	73 - 120
Bromochloromethane	5.00	4.88		ug/L		98	71 - 131
Bromodichloromethane	5.00	4.96		ug/L		99	62 - 150
Bromoform	5.00	4.42		ug/L		88	51 - 137
Bromomethane	5.00	5.08		ug/L		102	61 - 135
Carbon disulfide	5.00	5.00		ug/L		100	65 - 128
Carbon tetrachloride	5.00	4.99		ug/L		100	54 - 150
Chlorobenzene	5.00	5.21		ug/L		104	74 - 114
Chloroethane	5.00	5.15		ug/L		103	58 - 130
Chloroform	5.00	5.02		ug/L		100	71 - 130
Chloromethane	5.00	4.77		ug/L		95	40 - 150
cis-1,2-Dichloroethene	5.00	4.97		ug/L		99	73 - 130
cis-1,3-Dichloropropene	5.00	5.11		ug/L		102	54 - 150
Dibromochloromethane	5.00	4.82		ug/L		96	46 - 150
Dibromomethane	5.00	4.83		ug/L		97	65 - 137
Ethylbenzene	5.00	4.86		ug/L		97	74 - 125
m,p-Xylene	5.00	5.31		ug/L		106	73 - 130
Methyl iodide	5.00	5.07		ug/L		101	47 - 145
Methylene Chloride	5.00	4.87		ug/L		97	58 - 134
o-Xylene	5.00	4.62		ug/L		92	80 - 139
Styrene	5.00	5.40		ug/L		108	68 - 136
Tetrachloroethene	5.00	5.10		ug/L		102	67 - 123
Toluene	5.00	4.94		ug/L		99	70 - 126
trans-1,2-Dichloroethene	5.00	4.95		ug/L		99	69 - 124
trans-1,3-Dichloropropene	5.00	4.94		ug/L		99	40 - 150

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

Lab Sample ID: LCS 580-244494/5
Matrix: Water
Analysis Batch: 244494

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	4.84		ug/L		97	20 - 150
Trichloroethene	5.00	4.98		ug/L		100	72 - 123
Trichlorofluoromethane	5.00	5.26		ug/L		105	60 - 150
Vinyl acetate	12.5	14.6		ug/L		117	30 - 150
Vinyl chloride	5.00	5.02		ug/L		100	59 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*46 - 150*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
Toluene-d8 (Surr)	*97*		*75 - 125*
Trifluorotoluene (Surr)	*102*		*74 - 118*

Lab Sample ID: LCSD 580-244494/6
Matrix: Water
Analysis Batch: 244494

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.94		ug/L		99	68 - 139	2	20
1,1,1-Trichloroethane	5.00	5.12		ug/L		102	56 - 150	2	29
1,1,2,2-Tetrachloroethane	5.00	4.70		ug/L		94	60 - 134	5	25
1,1,2-Trichloroethane	5.00	4.77		ug/L		95	62 - 137	0	30
1,1-Dichloroethane	5.00	5.04		ug/L		101	68 - 135	1	27
1,1-Dichloroethene	5.00	4.87		ug/L		97	64 - 125	2	28
1,2,3-Trichloropropane	5.00	4.56		ug/L		91	45 - 150	7	20
1,2-Dibromo-3-Chloropropane	5.00	4.31		ug/L		86	34 - 150	2	20
1,2-Dibromoethane	5.00	4.81		ug/L		96	56 - 146	0	20
1,2-Dichlorobenzene	5.00	5.03		ug/L		101	73 - 120	1	14
1,2-Dichloroethane	5.00	4.91		ug/L		98	63 - 150	1	29
1,2-Dichloropropane	5.00	5.05		ug/L		101	72 - 120	1	20
1,4-Dichlorobenzene	5.00	5.32		ug/L		106	77 - 120	0	11
2-Butanone	25.0	23.7		ug/L		95	30 - 150	8	35
2-Hexanone	25.0	22.9		ug/L		92	25 - 150	0	28
4-Methyl-2-pentanone	25.0	23.1		ug/L		92	36 - 150	2	34
Acetone	25.0	26.2		ug/L		105	20 - 138	15	35
Acrylonitrile	50.0	48.0		ug/L		96	55 - 134	7	35
Benzene	5.00	5.36		ug/L		107	73 - 120	0	20
Bromochloromethane	5.00	4.86		ug/L		97	71 - 131	0	20
Bromodichloromethane	5.00	4.95		ug/L		99	62 - 150	0	20
Bromoform	5.00	4.58		ug/L		92	51 - 137	4	20
Bromomethane	5.00	5.18		ug/L		104	61 - 135	2	31
Carbon disulfide	5.00	5.03		ug/L		101	65 - 128	1	32
Carbon tetrachloride	5.00	4.89		ug/L		98	54 - 150	2	30
Chlorobenzene	5.00	5.19		ug/L		104	74 - 114	0	12
Chloroethane	5.00	5.28		ug/L		106	58 - 130	3	35
Chloroform	5.00	4.99		ug/L		100	71 - 130	1	20
Chloromethane	5.00	4.87		ug/L		97	40 - 150	2	31
cis-1,2-Dichloroethene	5.00	4.98		ug/L		100	73 - 130	0	20

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

Lab Sample ID: LCSD 580-244494/6
Matrix: Water
Analysis Batch: 244494

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			5.00	5.16		ug/L		103	54 - 150	1	28
Dibromochloromethane			5.00	4.73		ug/L		95	46 - 150	2	20
Dibromomethane			5.00	4.86		ug/L		97	65 - 137	1	20
Ethylbenzene			5.00	4.88		ug/L		98	74 - 125	0	20
m,p-Xylene			5.00	5.32		ug/L		106	73 - 130	0	20
Methyl iodide			5.00	5.09		ug/L		102	47 - 145	0	35
Methylene Chloride			5.00	4.85		ug/L		97	58 - 134	0	29
o-Xylene			5.00	4.74		ug/L		95	80 - 139	3	20
Styrene			5.00	5.55		ug/L		111	68 - 136	3	20
Tetrachloroethene			5.00	4.99		ug/L		100	67 - 123	2	20
Toluene			5.00	4.89		ug/L		98	70 - 126	1	20
trans-1,2-Dichloroethene			5.00	5.04		ug/L		101	69 - 124	2	27
trans-1,3-Dichloropropene			5.00	4.98		ug/L		100	40 - 150	1	30
trans-1,4-Dichloro-2-butene			5.00	4.66		ug/L		93	20 - 150	4	20
Trichloroethene			5.00	4.98		ug/L		100	72 - 123	0	20
Trichlorofluoromethane			5.00	5.05		ug/L		101	60 - 150	4	31
Vinyl acetate			12.5	14.2		ug/L		113	30 - 150	3	35
Vinyl chloride			5.00	5.01		ug/L		100	59 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*46 - 150*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
Toluene-d8 (Surr)	*96*		*75 - 125*
Trifluorotoluene (Surr)	*90*		*74 - 118*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-244635/1-A
Matrix: Water
Analysis Batch: 245669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
2,4-D	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
2,4-DB	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
4-Nitrophenol	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
Dalapon	ND		0.40		ug/L		05/01/17 13:43	05/11/17 18:44	1
Dicamba	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
Dichlorprop	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
Dinoseb	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
MCPA	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
Mecoprop	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
Pentachlorophenol	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		05/01/17 13:43	05/11/17 18:44	1

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: MB 580-244635/1-A
Matrix: Water
Analysis Batch: 245669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244635

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	76		51 - 150	05/01/17 13:43	05/11/17 18:44	1

Lab Sample ID: LCS 580-244635/2-A
Matrix: Water
Analysis Batch: 245669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244635

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	3.22		ug/L		64	20 - 150		
2,4-D			5.00	3.25		ug/L		65	20 - 150		
2,4-DB			5.00	4.81		ug/L		96	50 - 150		
4-Nitrophenol			5.00	5.55		ug/L		111	28 - 150		
Dalapon			5.00	3.47		ug/L		69	20 - 120		
Dicamba			5.00	3.24		ug/L		65	20 - 150		
Dichlorprop			5.00	4.21		ug/L		84	23 - 150		
Dinoseb			5.00	7.09		ug/L		142	24 - 150		
MCPA			5.00	3.47		ug/L		69	21 - 150		
Mecoprop			5.00	4.52		ug/L		90	51 - 150		
Pentachlorophenol			5.00	6.27		ug/L		125	48 - 150		
Silvex (2,4,5-TP)			5.00	4.80		ug/L		96	24 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	72		51 - 150

Lab Sample ID: LCSD 580-244635/3-A
Matrix: Water
Analysis Batch: 245669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 244635

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.03		ug/L		61	20 - 150	6	35
2,4-D			5.00	2.41		ug/L		48	20 - 150	30	35
2,4-DB			5.00	3.82		ug/L		76	50 - 150	23	35
4-Nitrophenol			5.00	5.65		ug/L		113	28 - 150	2	35
Dalapon			5.00	2.98		ug/L		60	20 - 120	15	35
Dicamba			5.00	2.69		ug/L		54	20 - 150	19	35
Dichlorprop			5.00	3.39		ug/L		68	23 - 150	22	35
Dinoseb			5.00	6.04		ug/L		121	24 - 150	16	35
MCPA			5.00	2.77		ug/L		55	21 - 150	22	35
Mecoprop			5.00	3.54		ug/L		71	51 - 150	24	35
Pentachlorophenol			5.00	6.35		ug/L		127	48 - 150	1	35
Silvex (2,4,5-TP)			5.00	3.89		ug/L		78	24 - 150	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	65		51 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-244460/22-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		04/28/17 09:00	05/01/17 12:57	1
Iron	ND		0.30		mg/L		04/28/17 09:00	05/01/17 12:57	1
Magnesium	ND		1.1		mg/L		04/28/17 09:00	05/01/17 12:57	1
Manganese	ND		0.020		mg/L		04/28/17 09:00	05/01/17 12:57	1
Potassium	ND		3.3		mg/L		04/28/17 09:00	05/01/17 12:57	1
Sodium	ND		2.0		mg/L		04/28/17 09:00	05/01/17 12:57	1

Lab Sample ID: LCS 580-244460/23-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.8		mg/L		104	80 - 120
Iron	22.0	22.9		mg/L		104	80 - 120
Magnesium	20.0	20.9		mg/L		104	80 - 120
Manganese	1.00	1.04		mg/L		104	80 - 120
Potassium	20.0	20.7		mg/L		104	80 - 120
Sodium	20.0	20.3		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-244460/24-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.8		mg/L		104	80 - 120	0	20
Iron	22.0	22.9		mg/L		104	80 - 120	0	20
Magnesium	20.0	20.8		mg/L		104	80 - 120	0	20
Manganese	1.00	1.04		mg/L		104	80 - 120	0	20
Potassium	20.0	20.7		mg/L		104	80 - 120	0	20
Sodium	20.0	20.3		mg/L		101	80 - 120	0	20

Lab Sample ID: MB 580-244520/22-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		04/28/17 14:39	05/01/17 14:14	1
Iron	ND		0.30		mg/L		04/28/17 14:39	05/01/17 14:14	1
Magnesium	ND		1.1		mg/L		04/28/17 14:39	05/01/17 14:14	1
Manganese	ND		0.020		mg/L		04/28/17 14:39	05/01/17 14:14	1
Potassium	ND		3.3		mg/L		04/28/17 14:39	05/01/17 14:14	1
Sodium	ND		2.0		mg/L		04/28/17 14:39	05/01/17 14:14	1

Lab Sample ID: LCS 580-244520/23-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.2		mg/L		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-244520/23-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	22.0	22.2		mg/L		101	80 - 120
Magnesium	20.0	20.1		mg/L		101	80 - 120
Manganese	1.00	1.01		mg/L		101	80 - 120
Potassium	20.0	20.1		mg/L		100	80 - 120
Sodium	20.0	19.6		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-244520/24-A
Matrix: Water
Analysis Batch: 244648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.3		mg/L		101	80 - 120	0	20
Iron	22.0	22.1		mg/L		101	80 - 120	0	20
Magnesium	20.0	20.2		mg/L		101	80 - 120	0	20
Manganese	1.00	1.01		mg/L		101	80 - 120	0	20
Potassium	20.0	20.1		mg/L		101	80 - 120	0	20
Sodium	20.0	19.7		mg/L		98	80 - 120	0	20

Lab Sample ID: 580-67838-1 MS
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-20
Prep Type: Dissolved
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	74		20.0	95.0		mg/L		105	75 - 125
Iron	ND		22.0	22.3		mg/L		101	75 - 125
Magnesium	27		20.0	46.8		mg/L		98	75 - 125
Manganese	0.046		1.00	1.06		mg/L		101	75 - 125
Potassium	6.2		20.0	26.8		mg/L		103	75 - 125
Sodium	22		20.0	43.0		mg/L		106	75 - 125

Lab Sample ID: 580-67838-1 MSD
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-20
Prep Type: Dissolved
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	74		20.0	95.6		mg/L		108	75 - 125	1	20
Iron	ND		22.0	22.4		mg/L		101	75 - 125	1	20
Magnesium	27		20.0	46.9		mg/L		98	75 - 125	0	20
Manganese	0.046		1.00	1.07		mg/L		102	75 - 125	0	20
Potassium	6.2		20.0	26.9		mg/L		103	75 - 125	0	20
Sodium	22		20.0	43.2		mg/L		107	75 - 125	0	20

Lab Sample ID: 580-67838-1 DU
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-20
Prep Type: Dissolved
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	74		74.5		mg/L		0.7	20
Iron	ND		ND		mg/L		NC	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-67838-1 DU
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-20
Prep Type: Dissolved
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	27		27.6		mg/L		1	20
Manganese	0.046		0.0460		mg/L		0.7	20
Potassium	6.2		6.30		mg/L		1	20
Sodium	22		22.0		mg/L		0.5	20

Lab Sample ID: 580-67838-9 MS
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-13
Prep Type: Dissolved
Prep Batch: 244520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	78		20.0	94.8		mg/L		83	75 - 125
Iron	0.36		22.0	21.6		mg/L		97	75 - 125
Magnesium	48		20.0	65.1		mg/L		85	75 - 125
Manganese	0.11		1.00	1.07		mg/L		97	75 - 125
Potassium	6.1		20.0	25.6		mg/L		97	75 - 125
Sodium	31		20.0	49.3		mg/L		90	75 - 125

Lab Sample ID: 580-67838-9 MSD
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-13
Prep Type: Dissolved
Prep Batch: 244520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	78		20.0	97.5		mg/L		96	75 - 125	3	20
Iron	0.36		22.0	21.8		mg/L		98	75 - 125	1	20
Magnesium	48		20.0	65.2		mg/L		85	75 - 125	0	20
Manganese	0.11		1.00	1.09		mg/L		98	75 - 125	1	20
Potassium	6.1		20.0	25.9		mg/L		99	75 - 125	1	20
Sodium	31		20.0	51.3		mg/L		100	75 - 125	4	20

Lab Sample ID: 580-67838-9 DU
Matrix: Water
Analysis Batch: 244648

Client Sample ID: 0417-13
Prep Type: Dissolved
Prep Batch: 244520

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	78		77.2		mg/L		1	20
Iron	0.36		0.358		mg/L		1	20
Magnesium	48		47.3		mg/L		2	20
Manganese	0.11		0.106		mg/L		2	20
Potassium	6.1		6.03		mg/L		1	20
Sodium	31		30.9		mg/L		1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-244460/22-A
Matrix: Water
Analysis Batch: 244556

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:35	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-244460/22-A
Matrix: Water
Analysis Batch: 244556

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 15:35	1
Barium	ND		0.0012		mg/L		04/28/17 09:00	04/28/17 15:35	1
Beryllium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:35	1
Cadmium	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:35	1
Cr	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:35	1
Cobalt	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:35	1
Copper	ND		0.0020		mg/L		04/28/17 09:00	04/28/17 15:35	1
Lead	ND		0.00080		mg/L		04/28/17 09:00	04/28/17 15:35	1
Nickel	ND		0.0030		mg/L		04/28/17 09:00	04/28/17 15:35	1
Selenium	ND		0.0080		mg/L		04/28/17 09:00	04/28/17 15:35	1
Silver	ND		0.00040		mg/L		04/28/17 09:00	04/28/17 15:35	1
Thallium	ND		0.0010		mg/L		04/28/17 09:00	04/28/17 15:35	1
Vanadium	ND		0.0040		mg/L		04/28/17 09:00	04/28/17 15:35	1
Zinc	ND		0.0070		mg/L		04/28/17 09:00	04/28/17 15:35	1

Lab Sample ID: LCS 580-244460/23-A
Matrix: Water
Analysis Batch: 244556

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.92		mg/L		97	80 - 120
Arsenic	4.00	3.98		mg/L		99	80 - 120
Barium	4.00	3.93		mg/L		98	80 - 120
Beryllium	0.100	0.0972		mg/L		97	80 - 120
Cadmium	0.100	0.0991		mg/L		99	80 - 120
Cr	0.400	0.391		mg/L		98	80 - 120
Cobalt	1.00	0.941		mg/L		94	80 - 120
Copper	0.500	0.481		mg/L		96	80 - 120
Lead	1.00	0.941		mg/L		94	80 - 120
Nickel	1.00	0.975		mg/L		97	80 - 120
Selenium	4.00	3.92		mg/L		98	80 - 120
Silver	0.600	0.580		mg/L		97	80 - 120
Thallium	4.00	3.65		mg/L		91	80 - 120
Vanadium	1.00	0.973		mg/L		97	80 - 120
Zinc	4.00	3.93		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-244460/24-A
Matrix: Water
Analysis Batch: 244556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.94		mg/L		98	80 - 120	1	20
Arsenic	4.00	4.00		mg/L		100	80 - 120	1	20
Barium	4.00	3.95		mg/L		99	80 - 120	1	20
Beryllium	0.100	0.0969		mg/L		97	80 - 120	0	20
Cadmium	0.100	0.0979		mg/L		98	80 - 120	1	20
Cr	0.400	0.392		mg/L		98	80 - 120	0	20
Cobalt	1.00	0.957		mg/L		96	80 - 120	2	20
Copper	0.500	0.493		mg/L		99	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-244460/24-A
Matrix: Water
Analysis Batch: 244556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	0.940		mg/L		94	80 - 120	0	20
Nickel			1.00	0.997		mg/L		100	80 - 120	2	20
Selenium			4.00	3.97		mg/L		99	80 - 120	1	20
Silver			0.600	0.582		mg/L		97	80 - 120	0	20
Thallium			4.00	3.66		mg/L		92	80 - 120	0	20
Vanadium			1.00	0.976		mg/L		98	80 - 120	0	20
Zinc			4.00	3.99		mg/L		100	80 - 120	2	20

Lab Sample ID: 580-67838-1 MS
Matrix: Water
Analysis Batch: 244556

Client Sample ID: 0417-20
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.00		mg/L		100	80 - 120
Arsenic	0.0080		4.00	4.09		mg/L		102	80 - 120
Barium	0.026		4.00	4.12		mg/L		102	80 - 120
Beryllium	ND		0.100	0.102		mg/L		102	80 - 120
Cadmium	ND		0.100	0.100		mg/L		100	80 - 120
Cr	ND		0.400	0.412		mg/L		103	80 - 120
Cobalt	ND		1.00	0.980		mg/L		98	80 - 120
Copper	ND		0.500	0.496		mg/L		99	80 - 120
Lead	ND		1.00	0.968		mg/L		97	80 - 120
Nickel	ND		1.00	1.03		mg/L		103	80 - 120
Selenium	ND		4.00	4.08		mg/L		102	80 - 120
Silver	ND		0.600	0.589		mg/L		98	80 - 120
Thallium	ND		4.00	3.85		mg/L		96	80 - 120
Vanadium	ND		1.00	1.02		mg/L		102	80 - 120
Zinc	ND		4.00	4.09		mg/L		102	80 - 120

Lab Sample ID: 580-67838-1 MSD
Matrix: Water
Analysis Batch: 244556

Client Sample ID: 0417-20
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.05		mg/L		102	80 - 120	2	20
Arsenic	0.0080		4.00	4.13		mg/L		103	80 - 120	1	20
Barium	0.026		4.00	4.20		mg/L		104	80 - 120	2	20
Beryllium	ND		0.100	0.103		mg/L		103	80 - 120	1	20
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120	4	20
Cr	ND		0.400	0.412		mg/L		103	80 - 120	0	20
Cobalt	ND		1.00	0.989		mg/L		99	80 - 120	1	20
Copper	ND		0.500	0.498		mg/L		100	80 - 120	0	20
Lead	ND		1.00	0.983		mg/L		98	80 - 120	2	20
Nickel	ND		1.00	1.02		mg/L		102	80 - 120	1	20
Selenium	ND		4.00	4.15		mg/L		104	80 - 120	2	20
Silver	ND		0.600	0.602		mg/L		100	80 - 120	2	20
Thallium	ND		4.00	3.84		mg/L		96	80 - 120	0	20
Vanadium	ND		1.00	1.02		mg/L		102	80 - 120	0	20
Zinc	ND		4.00	4.10		mg/L		102	80 - 120	0	20

Lab Sample ID: 580-67838-1 DU
Matrix: Water
Analysis Batch: 244556

Client Sample ID: 0417-20
Prep Type: Total Recoverable
Prep Batch: 244460

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0080		0.00810		mg/L		0.9	20
Barium	0.026		0.0272		mg/L		3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Cr	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-244520/22-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Arsenic	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 11:22	1
Barium	ND		0.0012		mg/L		04/28/17 14:39	05/01/17 11:22	1
Beryllium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Cadmium	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Cr	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Cobalt	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Copper	ND		0.0020		mg/L		04/28/17 14:39	05/01/17 11:22	1
Lead	ND		0.00080		mg/L		04/28/17 14:39	05/01/17 11:22	1
Nickel	ND		0.0030		mg/L		04/28/17 14:39	05/01/17 11:22	1
Selenium	ND		0.0080		mg/L		04/28/17 14:39	05/01/17 11:22	1
Silver	ND		0.00040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Thallium	ND		0.0010		mg/L		04/28/17 14:39	05/01/17 11:22	1
Vanadium	ND		0.0040		mg/L		04/28/17 14:39	05/01/17 11:22	1
Zinc	ND		0.0070		mg/L		04/28/17 14:39	05/01/17 11:22	1

Lab Sample ID: LCS 580-244520/23-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.11		mg/L		104	80 - 120
Arsenic	4.00	4.08		mg/L		102	80 - 120
Barium	4.00	4.19		mg/L		105	80 - 120
Beryllium	0.100	0.0981		mg/L		98	80 - 120
Cadmium	0.100	0.104		mg/L		104	80 - 120
Cr	0.400	0.402		mg/L		101	80 - 120
Cobalt	1.00	0.968		mg/L		97	80 - 120
Copper	0.500	0.516		mg/L		103	80 - 120
Lead	1.00	0.961		mg/L		96	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-244520/23-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	1.00	1.03		mg/L		103	80 - 120
Selenium	4.00	4.18		mg/L		104	80 - 120
Silver	0.600	0.616		mg/L		103	80 - 120
Thallium	4.00	3.97		mg/L		99	80 - 120
Vanadium	1.00	0.999		mg/L		100	80 - 120
Zinc	4.00	4.09		mg/L		102	80 - 120

Lab Sample ID: LCSD 580-244520/24-A
Matrix: Water
Analysis Batch: 244637

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.19		mg/L		106	80 - 120	3	20
Arsenic	4.00	4.22		mg/L		105	80 - 120	3	20
Barium	4.00	4.29		mg/L		107	80 - 120	3	20
Beryllium	0.100	0.102		mg/L		102	80 - 120	3	20
Cadmium	0.100	0.114		mg/L		114	80 - 120	9	20
Cr	0.400	0.413		mg/L		103	80 - 120	3	20
Cobalt	1.00	0.997		mg/L		100	80 - 120	3	20
Copper	0.500	0.534		mg/L		107	80 - 120	4	20
Lead	1.00	0.969		mg/L		97	80 - 120	1	20
Nickel	1.00	1.05		mg/L		105	80 - 120	2	20
Selenium	4.00	4.26		mg/L		107	80 - 120	2	20
Silver	0.600	0.633		mg/L		105	80 - 120	3	20
Thallium	4.00	4.12		mg/L		103	80 - 120	4	20
Vanadium	1.00	1.03		mg/L		103	80 - 120	3	20
Zinc	4.00	4.23		mg/L		106	80 - 120	3	20

Lab Sample ID: 580-67838-9 MS
Matrix: Water
Analysis Batch: 244637

Client Sample ID: 0417-13
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00045		3.00	3.07		mg/L		102	80 - 120
Arsenic	0.0061		4.00	4.08		mg/L		102	80 - 120
Barium	0.033		4.00	4.18		mg/L		104	80 - 120
Beryllium	ND		0.100	0.0997		mg/L		100	80 - 120
Cadmium	ND		0.100	0.103		mg/L		103	80 - 120
Cr	ND		0.400	0.402		mg/L		100	80 - 120
Cobalt	ND		1.00	0.970		mg/L		97	80 - 120
Copper	ND		0.500	0.507		mg/L		101	80 - 120
Lead	ND		1.00	0.968		mg/L		97	80 - 120
Nickel	ND		1.00	1.02		mg/L		102	80 - 120
Selenium	ND		4.00	4.20		mg/L		105	80 - 120
Silver	ND		0.600	0.591		mg/L		98	80 - 120
Thallium	ND		4.00	3.88		mg/L		97	80 - 120
Vanadium	ND		1.00	0.997		mg/L		100	80 - 120
Zinc	0.052		4.00	4.11		mg/L		101	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-67838-9 MSD
Matrix: Water
Analysis Batch: 244637

Client Sample ID: 0417-13
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00045		3.00	3.07		mg/L		102	80 - 120	0	20
Arsenic	0.0061		4.00	4.07		mg/L		102	80 - 120	0	20
Barium	0.033		4.00	4.16		mg/L		103	80 - 120	0	20
Beryllium	ND		0.100	0.0985		mg/L		98	80 - 120	1	20
Cadmium	ND		0.100	0.107		mg/L		107	80 - 120	3	20
Cr	ND		0.400	0.399		mg/L		100	80 - 120	1	20
Cobalt	ND		1.00	0.973		mg/L		97	80 - 120	0	20
Copper	ND		0.500	0.500		mg/L		100	80 - 120	1	20
Lead	ND		1.00	0.963		mg/L		96	80 - 120	1	20
Nickel	ND		1.00	1.03		mg/L		103	80 - 120	1	20
Selenium	ND		4.00	4.14		mg/L		103	80 - 120	1	20
Silver	ND		0.600	0.596		mg/L		99	80 - 120	1	20
Thallium	ND		4.00	3.93		mg/L		98	80 - 120	1	20
Vanadium	ND		1.00	1.00		mg/L		100	80 - 120	1	20
Zinc	0.052		4.00	4.12		mg/L		102	80 - 120	0	20

Lab Sample ID: 580-67838-9 DU
Matrix: Water
Analysis Batch: 244637

Client Sample ID: 0417-13
Prep Type: Total Recoverable
Prep Batch: 244520

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.00045		ND		mg/L		NC	20
Arsenic	0.0061		0.00587		mg/L		4	20
Barium	0.033		0.0330		mg/L		0.3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Cr	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	0.052		0.0520		mg/L		0.08	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-245175/3
Matrix: Water
Analysis Batch: 245175

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/05/17 12:24	1
Chloride	ND		0.90		mg/L			05/05/17 12:24	1
Sulfate	ND		1.2		mg/L			05/05/17 12:24	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-245175/4
Matrix: Water
Analysis Batch: 245175

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.78		mg/L		96	90 - 110
Chloride	50.0	49.8		mg/L		100	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: 580-67838-1 MS
Matrix: Water
Analysis Batch: 245175

Client Sample ID: 0417-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	5.05		mg/L		101	90 - 110
Chloride	37		50.0	85.6		mg/L		98	90 - 110
Sulfate	24		50.0	74.8		mg/L		102	90 - 110

Lab Sample ID: 580-67838-1 MSD
Matrix: Water
Analysis Batch: 245175

Client Sample ID: 0417-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.38		mg/L		108	90 - 110	6	15
Chloride	37		50.0	87.9		mg/L		102	90 - 110	3	15
Sulfate	24		50.0	78.8		mg/L		110	90 - 110	5	15

Lab Sample ID: MB 580-245231/3
Matrix: Water
Analysis Batch: 245231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/06/17 10:33	1
Chloride	ND		0.90		mg/L			05/06/17 10:33	1
Sulfate	ND		1.2		mg/L			05/06/17 10:33	1

Lab Sample ID: LCS 580-245231/4
Matrix: Water
Analysis Batch: 245231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.77		mg/L		95	90 - 110
Chloride	50.0	50.2		mg/L		100	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: LCSD 580-245231/5
Matrix: Water
Analysis Batch: 245231

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.75		mg/L		95	90 - 110	0	15
Chloride	50.0	49.9		mg/L		100	90 - 110	1	15
Sulfate	50.0	49.6		mg/L		99	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-67838-7 MS
Matrix: Water
Analysis Batch: 245231

Client Sample ID: 0417-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	4.85		mg/L		97	90 - 110
Chloride	72	F1	50.0	114	F1	mg/L		84	90 - 110
Sulfate	31		50.0	80.4		mg/L		99	90 - 110

Lab Sample ID: 580-67838-7 MSD
Matrix: Water
Analysis Batch: 245231

Client Sample ID: 0417-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	4.93		mg/L		99	90 - 110	2	15
Chloride	72	F1	50.0	114	F1	mg/L		84	90 - 110	0	15
Sulfate	31		50.0	80.3		mg/L		99	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-244679/1-A
Matrix: Water
Analysis Batch: 244827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/02/17 08:54	05/02/17 08:54	1

Lab Sample ID: LCS 580-244679/2-A
Matrix: Water
Analysis Batch: 244827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.08		mg/L		104	90 - 110

Lab Sample ID: MB 580-245192/1-A
Matrix: Water
Analysis Batch: 245193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1

Lab Sample ID: LCS 580-245192/2-A
Matrix: Water
Analysis Batch: 245193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.19		mg/L		109	90 - 110

Lab Sample ID: 580-67838-16 MS
Matrix: Water
Analysis Batch: 245193

Client Sample ID: 0417-26
Prep Type: Total/NA
Prep Batch: 245192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		2.00	2.20		mg/L		107	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 580-67838-16 MSD — **Client Sample ID: 0417-26**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245193 — **Prep Batch: 245192**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.19		mg/L		106	90 - 110	1	20

Lab Sample ID: 580-67838-16 DU — **Client Sample ID: 0417-26**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245193 — **Prep Batch: 245192**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-245426/14 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:07	1

Lab Sample ID: LCS 580-245426/15 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.956		mg/L		96	90 - 110

Lab Sample ID: LCSD 580-245426/16 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245426

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.960		mg/L		96	90 - 110	0	20

Lab Sample ID: 580-67838-1 MS — **Client Sample ID: 0417-20**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	0.500	0.372	F1	mg/L		55	90 - 110

Lab Sample ID: 580-67838-1 MSD — **Client Sample ID: 0417-20**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 245426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.390	F1	mg/L		59	90 - 110	5	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-67838-13 MS
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.1	F1	0.500	1.50	F1	mg/L		85	90 - 110

Lab Sample ID: 580-67838-13 MSD
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.1	F1	0.500	1.48	F1	mg/L		82	90 - 110	1	20

Lab Sample ID: 580-67838-1 DU
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-244632/2
Matrix: Water
Analysis Batch: 244632

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	98.2		mg/L		98	85 - 115

Lab Sample ID: 580-67838-1 DU
Matrix: Water
Analysis Batch: 244632

Client Sample ID: 0417-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	240		244		mg/L		3	17
Bicarbonate Alkalinity as CaCO3	240		244		mg/L		3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-244616/1
Matrix: Water
Analysis Batch: 244616

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/01/17 12:18	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-244616/2
Matrix: Water
Analysis Batch: 244616

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

Lab Sample ID: 580-67838-1 DU
Matrix: Water
Analysis Batch: 244616

Client Sample ID: 0417-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	380		373		mg/L		0.5	20

Lab Sample ID: 580-67838-13 DU
Matrix: Water
Analysis Batch: 244616

Client Sample ID: 0417-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		691		mg/L		0.4	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-244891/3-A
Matrix: Water
Analysis Batch: 244892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244891

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 11:00	05/03/17 11:00	1

Lab Sample ID: LCS 580-244891/4-A
Matrix: Water
Analysis Batch: 244892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	71.1		mg/L		95	80 - 120

Lab Sample ID: MB 580-244908/3-A
Matrix: Water
Analysis Batch: 244909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244908

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Lab Sample ID: LCS 580-244908/4-A
Matrix: Water
Analysis Batch: 244909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	70.5		mg/L		94	80 - 120

Method: SM 5220D - COD (Continued)

Lab Sample ID: 580-67838-12 MS
Matrix: Water
Analysis Batch: 244909

Client Sample ID: 0417-04
Prep Type: Total/NA
Prep Batch: 244908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		25.0	31.0		mg/L		124	75 - 125

Lab Sample ID: 580-67838-12 DU
Matrix: Water
Analysis Batch: 244909

Client Sample ID: 0417-04
Prep Type: Total/NA
Prep Batch: 244908

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-245217/3
Matrix: Water
Analysis Batch: 245217

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/06/17 12:02	1

Lab Sample ID: LCS 580-245217/4
Matrix: Water
Analysis Batch: 245217

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.4		mg/L		104	85 - 115

Lab Sample ID: MB 580-245328/3
Matrix: Water
Analysis Batch: 245328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/08/17 12:25	1

Lab Sample ID: LCS 580-245328/4
Matrix: Water
Analysis Batch: 245328

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.5		mg/L		105	85 - 115

Lab Sample ID: 580-67838-6 MS
Matrix: Water
Analysis Batch: 245328

Client Sample ID: 0417-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.8		10.0	12.8		mg/L		100	85 - 115

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-67838-6 MSD
Matrix: Water
Analysis Batch: 245328

Client Sample ID: 0417-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.8		10.0	13.1		mg/L		103	85 - 115	2	20

Lab Sample ID: 580-67838-6 DU
Matrix: Water
Analysis Batch: 245328

Client Sample ID: 0417-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.8		2.83		mg/L		1	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-20

Date Collected: 04/24/17 11:05
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 16:12	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:06	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 15:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245175	05/05/17 13:43	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:11	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245217	05/06/17 12:02	RSB	TAL SEA

Client Sample ID: 0417-21

Date Collected: 04/24/17 12:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 16:42	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:34	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:31	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245175	05/05/17 14:31	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		5	245426	05/09/17 19:15	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245217	05/06/17 12:02	RSB	TAL SEA

Client Sample ID: 0417-32

Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 17:11	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-32

Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	244648	05/01/17 13:38	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:35	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245175	05/05/17 14:47	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:16	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245217	05/06/17 12:02	RSB	TAL SEA

Client Sample ID: 0417-15

Date Collected: 04/24/17 13:35
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 17:40	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:41	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:39	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245175	05/05/17 15:34	RSB	TAL SEA
Total/NA	Analysis	300.0		10	245175	05/05/17 19:00	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:18	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245217	05/06/17 12:02	RSB	TAL SEA

Client Sample ID: 0417-16

Date Collected: 04/24/17 14:35
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 18:09	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:44	HJM	TAL SEA

Client Sample ID: 0417-16

Lab Sample ID: 580-67838-5

Date Collected: 04/24/17 14:35

Matrix: Water

Date Received: 04/25/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:44	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245175	05/05/17 15:50	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:21	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245217	05/06/17 12:02	RSB	TAL SEA

Client Sample ID: 0417-14

Lab Sample ID: 580-67838-6

Date Collected: 04/24/17 15:51

Matrix: Water

Date Received: 04/25/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 18:38	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245175	05/05/17 16:06	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:22	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-10

Lab Sample ID: 580-67838-7

Date Collected: 04/24/17 17:25

Matrix: Water

Date Received: 04/25/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 19:07	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:51	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:52	FCW	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-10

Date Collected: 04/24/17 17:25
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	245231	05/06/17 11:21	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:23	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-11

Date Collected: 04/24/17 18:05
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 19:36	CJ	TAL SEA
Dissolved	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 13:54	HJM	TAL SEA
Total Recoverable	Prep	3005A			244460	04/28/17 09:00	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244556	04/28/17 16:56	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 12:08	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:25	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-13

Date Collected: 04/24/17 19:15
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 20:05	CJ	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 14:23	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 11:36	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 12:24	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-13
Date Collected: 04/24/17 19:15
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:26	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244891	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244892	05/03/17 11:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-100
Date Collected: 04/24/17 11:10
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 20:34	CJ	TAL SEA

Client Sample ID: 0417-99
Date Collected: 04/24/17 11:50
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 21:03	CJ	TAL SEA

Client Sample ID: 0417-04
Date Collected: 04/24/17 12:30
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 21:32	CJ	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 14:51	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 12:22	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 12:40	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:27	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-03

Lab Sample ID: 580-67838-13

Date Collected: 04/24/17 13:25

Matrix: Water

Date Received: 04/25/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 22:01	CJ	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 14:55	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 12:27	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 12:56	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:28	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-02

Lab Sample ID: 580-67838-14

Date Collected: 04/24/17 14:25

Matrix: Water

Date Received: 04/25/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 22:31	CJ	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 14:58	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 12:32	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 13:12	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:54	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:32	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-01

Lab Sample ID: 580-67838-15

Date Collected: 04/24/17 14:50

Matrix: Water

Date Received: 04/25/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 22:59	CJ	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Client Sample ID: 0417-01

Date Collected: 04/24/17 14:50
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	244648	05/01/17 15:01	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 12:36	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 13:28	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			244679	05/02/17 08:55	EMM	TAL SEA
Total/NA	Analysis	350.1		1	244827	05/02/17 08:55	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 19:35	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: 0417-26

Date Collected: 04/24/17 15:45
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 23:28	CJ	TAL SEA
Total/NA	Prep	8151A			244635	05/01/17 13:44	ERZ	TAL SEA
Total/NA	Analysis	8151A		1	245669	05/11/17 19:52	ERB	TAL SEA
Dissolved	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Dissolved	Analysis	6010C		1	244648	05/01/17 15:05	HJM	TAL SEA
Total Recoverable	Prep	3005A			244520	04/28/17 14:39	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	244637	05/01/17 12:41	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245231	05/06/17 13:44	RSB	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		10	245426	05/09/17 19:36	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	244632	05/01/17 13:15	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244616	05/01/17 12:18	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245328	05/08/17 12:25	Z1T	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 04/24/17 00:01
Date Received: 04/25/17 14:45

Lab Sample ID: 580-67838-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244494	04/28/17 15:44	CJ	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Cr
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-67838-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-67838-1	0417-20	Water	04/24/17 11:05	04/25/17 14:45
580-67838-2	0417-21	Water	04/24/17 12:25	04/25/17 14:45
580-67838-3	0417-32	Water	04/24/17 11:10	04/25/17 14:45
580-67838-4	0417-15	Water	04/24/17 13:35	04/25/17 14:45
580-67838-5	0417-16	Water	04/24/17 14:35	04/25/17 14:45
580-67838-6	0417-14	Water	04/24/17 15:51	04/25/17 14:45
580-67838-7	0417-10	Water	04/24/17 17:25	04/25/17 14:45
580-67838-8	0417-11	Water	04/24/17 18:05	04/25/17 14:45
580-67838-9	0417-13	Water	04/24/17 19:15	04/25/17 14:45
580-67838-10	0417-100	Water	04/24/17 11:10	04/25/17 14:45
580-67838-11	0417-99	Water	04/24/17 11:50	04/25/17 14:45
580-67838-12	0417-04	Water	04/24/17 12:30	04/25/17 14:45
580-67838-13	0417-03	Water	04/24/17 13:25	04/25/17 14:45
580-67838-14	0417-02	Water	04/24/17 14:25	04/25/17 14:45
580-67838-15	0417-01	Water	04/24/17 14:50	04/25/17 14:45
580-67838-16	0417-26	Water	04/24/17 15:45	04/25/17 14:45
580-67838-17	Trip Blank	Water	04/24/17 00:01	04/25/17 14:45

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TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Vendiarutti	4/25/17	33205
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
2405 140th Ave NE Suite 107		67838	
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Bellevue / WA / 98005	Sam G.	Cathy Gamble	
Project Name and Location (State)	**Billing Contact**		
Cowlitz Solid Waste Facility	Dan Vendiarutti		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	TDS	Cl, F, SO4	N combo	8151A	8260 CLL	Special Instructions/ Conditions of Receipt
-1 0417-20	4/24/17	1105		X			3	2	2	3			X	X	X	X	X	X	X	X	X		X	* Ammonia, COD,
0417-21		1225											X	X	X	X	X	X	X	X	X		X	+ N-combo
-3 0417-32		1110											X	X	X	X	X	X	X	X	X		X	combined into
0417-15		1335											X	X	X	X	X	X	X	X	X		X	1 bottle.
-5 0417-16		1435											X	X	X	X	X	X	X	X	X		X	
0417-14		1551											X	X	X	X	X	X	X	X	X		X	
-7 0417-10		1725											X	X	X	X	X	X	X	X	X		X	
0417-11		1305											X	X	X	X	X	X	X	X	X		X	
-9 0417-13		1915											X	X	X	X	X	X	X	X	X		X	
0417-100		~~1110~~ 1105								3													X	
-11 0417-99		1150								3													X	
0417-04		1230					3	2	2	3			X	X	X	X	X	X	X	X	X		X	

Cooler
☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time
1. Relinquished By Sign/Print: Sam Graber	4/25/17	945
2. Relinquished By Sign/Print:		
3. Relinquished By Sign/Print:		

	Date	Time
1. Received By Sign/Print: Francisco Lung, Jr	4/25/17	1445
2. Received By Sign/Print:		
3. Received By Sign/Print:		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

580-67838 Chain of Custody (210)

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Tacoma, WA 98424
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☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Verchiarutti	4/25/17	33206
Address 2405 140th Ave NE Suite 107	Telephone Number (Area Code)/Fax Number	Lab Number 67838	Page 2 of 2
City Bellevue / **State** WA / **Zip Code** 98005	Sampler Sam G.	Lab Contact Cathy Gamble	
Project Name and Location (State) Coupeville Solid Waste Facility, WA	Billing Contact Dan Verchiarutti		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	TDS	Cl, F, SO4	N-combo	8151A	8260C_LL	Special Instructions/ Conditions of Receipt
-13 0417-03	4/24/17	1325		X			3	2	2	3			X	X	X	X	X	X	X	X	X		X	Ammonia, COD, +
0417-02		1425											X	X	X	X	X	X	X	X	X		X	N-combo combined
-15 0417-01		1450											X	X	X	X	X	X	X	X	X		X	into 1 bottle.
0417-26		1545					5	2	2	3			X	X	X	X	X	X	X	X	X	X	X	
-17 Trip blank		—								3													X	

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: _____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Graber Dan Verchiarutti	4/25/17	945	Francisco Luna Jr	4/25/17	1445
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TB #2 Cooler ___ Cor 4.5° Unc 4.7°
Cooler Dsc Lg Blue/white @Lab 1445
Wet/Packs Packing Bubble
w/o

TB #2 Cooler ___ Cor 6.2° Unc 6.4°
Cooler Dsc Lg Red/white @Lab 1445
Wet/Packs Packing Bubble
w/o

TB #2 Cooler ___ Cor 6.1° Unc 6.3°
Cooler Dsc Lg Blue/white @Lab 1445
Wet/Packs Packing Bubble
w/o

TB #8 Cooler ___ Cor 6.1° Unc 6.3°
Cooler Dsc Lg Blue/white @Lab 1445
Wet/Packs Packing Bubble
w/o

TB #2 Cooler ___ Cor 6.5° Unc 6.7°
Cooler Dsc Lg Blue/white @Lab 1445
Wet/Packs Packing Bubble
w/o

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-67838-1

Login Number: 67838
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

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

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-67900-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
5/16/2017 1:41:11 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Case Narrative

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Job ID: 580-67900-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 4/28/2017 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.8º C, 3.7º C, 3.8º C and 4.7º C.

GC/MS VOA
Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-244830 was outside criteria for the following analyte(s): Chloroethane, 2-Butanone, 2-Hexanone and 4-Methyl-2-pentanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-244830 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 0417-12 (580-67900-1), 0417-18 (580-67900-2), 0417-17 (580-67900-3), 0417-95 (580-67900-4), 0417-98 (580-67900-5), 0417-96 (580-67900-6), 0417-30 (580-67900-7), 0417-29 (580-67900-8), TRIP BLANK (580-67900-9), 0417-08 (580-67900-10), 0417-09 (580-67900-11), 0417-25 (580-67900-12), 0417-05 (580-67900-13) and (CCVIS 580-244830/2).

Method(s) 8260C: The following samples were reanalyzed for acetone due to failing QC in the initial run: 0417-12 (580-67900-1), 0417-18 (580-67900-2), 0417-17 (580-67900-3), 0417-95 (580-67900-4), 0417-98 (580-67900-5), 0417-96 (580-67900-6), 0417-30 (580-67900-7), 0417-29 (580-67900-8), TRIP BLANK (580-67900-9), 0417-08 (580-67900-10), 0417-09 (580-67900-11), 0417-25 (580-67900-12) and 0417-05 (580-67900-13)

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

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

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

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-12
Date Collected: 04/26/17 10:30
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 16:03	1
1,1,1-Trichloroethane	**0.49**		0.20		ug/L			05/03/17 16:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 16:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 16:03	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 16:03	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 16:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 16:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 16:03	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 16:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 16:03	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 16:03	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 16:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 16:03	1
2-Butanone	ND		15		ug/L			05/03/17 16:03	1
2-Hexanone	ND		2.0		ug/L			05/03/17 16:03	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 16:03	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 16:03	1
Benzene	ND		0.20		ug/L			05/03/17 16:03	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 16:03	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 16:03	1
Bromoform	ND		0.50		ug/L			05/03/17 16:03	1
Bromomethane	ND		1.0		ug/L			05/03/17 16:03	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 16:03	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 16:03	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 16:03	1
Chloroethane	ND		0.50		ug/L			05/03/17 16:03	1
Chloroform	ND		0.20		ug/L			05/03/17 16:03	1
Chloromethane	ND		0.30		ug/L			05/03/17 16:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 16:03	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 16:03	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 16:03	1
Dibromomethane	ND		0.20		ug/L			05/03/17 16:03	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 16:03	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 16:03	1
Methyl iodide	ND		0.50		ug/L			05/03/17 16:03	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 16:03	1
o-Xylene	ND		0.50		ug/L			05/03/17 16:03	1
Styrene	ND		0.50		ug/L			05/03/17 16:03	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 16:03	1
Toluene	ND		0.20		ug/L			05/03/17 16:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 16:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 16:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 16:03	1
Trichloroethene	ND		0.20		ug/L			05/03/17 16:03	1
Trichlorofluoromethane	**4.5**		0.50		ug/L			05/03/17 16:03	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 16:03	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 16:03	1

Client Sample ID: 0417-12
Date Collected: 04/26/17 10:30
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*46 - 150*		*05/03/17 16:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*05/03/17 16:03*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*05/03/17 16:03*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/03/17 16:03*	*1*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*05/03/17 16:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.2**		2.0		ug/L			05/04/17 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*05/04/17 20:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/04/17 20:05*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*05/04/17 20:05*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/04/17 20:05*	*1*
Trifluorotoluene (Surr)	*94*		*74 - 118*		*05/04/17 20:05*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		05/04/17 08:59	05/05/17 07:28	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 07:28	1
Magnesium	**83**		1.1		mg/L		05/04/17 08:59	05/05/17 07:28	1
Manganese	**0.038**		0.020		mg/L		05/04/17 08:59	05/05/17 07:28	1
Potassium	**7.0**		3.3		mg/L		05/04/17 08:59	05/05/17 07:28	1
Sodium	**31**		2.0		mg/L		05/04/17 08:59	05/05/17 07:28	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Arsenic	**0.0022**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:02	1
Barium	**0.034**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:02	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Chromium	**0.00069**		0.00040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 15:02	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:02	1
Nickel	**0.0057**		0.0030		mg/L		05/04/17 08:59	05/04/17 15:02	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:02	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:02	1
Vanadium	**0.0042**		0.0040		mg/L		05/04/17 08:59	05/04/17 15:02	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 18:07	1
Chloride	**56**		0.90		mg/L			05/10/17 18:07	1
Sulfate	**98**	**F1**	1.2		mg/L			05/10/17 18:07	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**44**	**E**	3.0		mg/L			05/09/17 19:55	20

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-12
Date Collected: 04/26/17 10:30
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.3**		1.0		mg/L			05/09/17 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**880**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	**16**		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-18
Date Collected: 04/26/17 11:50
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 16:33	1
1,1,1-Trichloroethane	**0.67**		0.20		ug/L			05/03/17 16:33	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 16:33	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 16:33	1
1,1-Dichloroethane	**0.68**		0.20		ug/L			05/03/17 16:33	1
1,1-Dichloroethene	**0.10**		0.10		ug/L			05/03/17 16:33	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 16:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 16:33	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 16:33	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 16:33	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 16:33	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 16:33	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 16:33	1
2-Butanone	ND		15		ug/L			05/03/17 16:33	1
2-Hexanone	ND		2.0		ug/L			05/03/17 16:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 16:33	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 16:33	1
Benzene	ND		0.20		ug/L			05/03/17 16:33	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 16:33	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 16:33	1
Bromoform	ND		0.50		ug/L			05/03/17 16:33	1
Bromomethane	ND		1.0		ug/L			05/03/17 16:33	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 16:33	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 16:33	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 16:33	1
Chloroethane	ND		0.50		ug/L			05/03/17 16:33	1
Chloroform	ND		0.20		ug/L			05/03/17 16:33	1
Chloromethane	ND		0.30		ug/L			05/03/17 16:33	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 16:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 16:33	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 16:33	1
Dibromomethane	ND		0.20		ug/L			05/03/17 16:33	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 16:33	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 16:33	1
Methyl iodide	ND		0.50		ug/L			05/03/17 16:33	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 16:33	1
o-Xylene	ND		0.50		ug/L			05/03/17 16:33	1
Styrene	ND		0.50		ug/L			05/03/17 16:33	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 16:33	1
Toluene	ND		0.20		ug/L			05/03/17 16:33	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 16:33	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 16:33	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 16:33	1
Trichloroethene	ND		0.20		ug/L			05/03/17 16:33	1
Trichlorofluoromethane	**2.4**		0.50		ug/L			05/03/17 16:33	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 16:33	1
Vinyl chloride	**0.068**		0.020		ug/L			05/03/17 16:33	1

Client Sample ID: 0417-18
Date Collected: 04/26/17 11:50
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*05/03/17 16:33*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/03/17 16:33*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/03/17 16:33*	*1*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/03/17 16:33*	*1*
Trifluorotoluene (Surr)	*88*		*74 - 118*		*05/03/17 16:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.2**		2.0		ug/L			05/04/17 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/04/17 20:34*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*05/04/17 20:34*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/04/17 20:34*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/04/17 20:34*	*1*
Trifluorotoluene (Surr)	*93*		*74 - 118*		*05/04/17 20:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		05/04/17 08:59	05/05/17 07:57	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 07:57	1
Magnesium	**93**		1.1		mg/L		05/04/17 08:59	05/05/17 07:57	1
Manganese	ND		0.020		mg/L		05/04/17 08:59	05/05/17 07:57	1
Potassium	**9.7**		3.3		mg/L		05/04/17 08:59	05/05/17 07:57	1
Sodium	**32**		2.0		mg/L		05/04/17 08:59	05/05/17 07:57	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Arsenic	**0.0014**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:07	1
Barium	**0.052**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:07	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Chromium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 15:07	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:07	1
Nickel	**0.0046**		0.0030		mg/L		05/04/17 08:59	05/04/17 15:07	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:07	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:07	1
Vanadium	**0.0044**		0.0040		mg/L		05/04/17 08:59	05/04/17 15:07	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 18:55	1
Chloride	**27**		0.90		mg/L			05/10/17 18:55	1
Sulfate	**110**		1.2		mg/L			05/10/17 18:55	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**6.6**		1.5		mg/L			05/09/17 19:56	10

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-18
Date Collected: 04/26/17 11:50
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.9**		1.0		mg/L			05/09/17 13:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**710**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**710**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**960**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client Sample ID: 0417-17
Date Collected: 04/26/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 17:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 17:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 17:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 17:02	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 17:02	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 17:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 17:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 17:02	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 17:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 17:02	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 17:02	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 17:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 17:02	1
2-Butanone	ND		15		ug/L			05/03/17 17:02	1
2-Hexanone	ND		2.0		ug/L			05/03/17 17:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 17:02	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 17:02	1
Benzene	ND		0.20		ug/L			05/03/17 17:02	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 17:02	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 17:02	1
Bromoform	ND		0.50		ug/L			05/03/17 17:02	1
Bromomethane	ND		1.0		ug/L			05/03/17 17:02	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 17:02	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 17:02	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 17:02	1
Chloroethane	ND		0.50		ug/L			05/03/17 17:02	1
Chloroform	ND		0.20		ug/L			05/03/17 17:02	1
Chloromethane	ND		0.30		ug/L			05/03/17 17:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 17:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 17:02	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 17:02	1
Dibromomethane	ND		0.20		ug/L			05/03/17 17:02	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 17:02	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 17:02	1
Methyl iodide	ND		0.50		ug/L			05/03/17 17:02	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 17:02	1
o-Xylene	ND		0.50		ug/L			05/03/17 17:02	1
Styrene	ND		0.50		ug/L			05/03/17 17:02	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 17:02	1
Toluene	ND		0.20		ug/L			05/03/17 17:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 17:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 17:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 17:02	1
Trichloroethene	ND		0.20		ug/L			05/03/17 17:02	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 17:02	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 17:02	1
Vinyl chloride	**0.038**		0.020		ug/L			05/03/17 17:02	1

Client Sample ID: 0417-17
Date Collected: 04/26/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/03/17 17:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/03/17 17:02*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*05/03/17 17:02*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 17:02*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/03/17 17:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.2**		2.0		ug/L			05/04/17 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*05/04/17 21:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*05/04/17 21:03*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/04/17 21:03*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/04/17 21:03*	*1*
Trifluorotoluene (Surr)	*97*		*74 - 118*		*05/04/17 21:03*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		05/04/17 08:59	05/05/17 08:00	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 08:00	1
Magnesium	**76**		1.1		mg/L		05/04/17 08:59	05/05/17 08:00	1
Manganese	ND		0.020		mg/L		05/04/17 08:59	05/05/17 08:00	1
Potassium	**8.6**		3.3		mg/L		05/04/17 08:59	05/05/17 08:00	1
Sodium	**43**		2.0		mg/L		05/04/17 08:59	05/05/17 08:00	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Arsenic	**0.0032**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:11	1
Barium	**0.028**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:11	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Chromium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 15:11	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:11	1
Nickel	**0.0043**		0.0030		mg/L		05/04/17 08:59	05/04/17 15:11	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:11	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:11	1
Vanadium	ND		0.0040		mg/L		05/04/17 08:59	05/04/17 15:11	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 19:11	1
Chloride	**66**		0.90		mg/L			05/10/17 19:11	1
Sulfate	**65**		1.2		mg/L			05/10/17 19:11	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**3.0**		0.75		mg/L			05/09/17 19:57	5

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-17
Date Collected: 04/26/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.5**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**490**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**720**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client Sample ID: 0417-95
Date Collected: 04/26/17 14:25
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 17:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 17:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 17:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 17:31	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 17:31	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 17:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 17:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 17:31	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 17:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 17:31	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 17:31	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 17:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 17:31	1
2-Butanone	ND		15		ug/L			05/03/17 17:31	1
2-Hexanone	ND		2.0		ug/L			05/03/17 17:31	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 17:31	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 17:31	1
Benzene	ND		0.20		ug/L			05/03/17 17:31	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 17:31	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 17:31	1
Bromoform	ND		0.50		ug/L			05/03/17 17:31	1
Bromomethane	ND		1.0		ug/L			05/03/17 17:31	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 17:31	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 17:31	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 17:31	1
Chloroethane	ND		0.50		ug/L			05/03/17 17:31	1
Chloroform	ND		0.20		ug/L			05/03/17 17:31	1
Chloromethane	ND		0.30		ug/L			05/03/17 17:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 17:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 17:31	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 17:31	1
Dibromomethane	ND		0.20		ug/L			05/03/17 17:31	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 17:31	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 17:31	1
Methyl iodide	ND		0.50		ug/L			05/03/17 17:31	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 17:31	1
o-Xylene	ND		0.50		ug/L			05/03/17 17:31	1
Styrene	ND		0.50		ug/L			05/03/17 17:31	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 17:31	1
Toluene	ND		0.20		ug/L			05/03/17 17:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 17:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 17:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 17:31	1
Trichloroethene	ND		0.20		ug/L			05/03/17 17:31	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 17:31	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 17:31	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 17:31	1

Client Sample ID: 0417-95
Date Collected: 04/26/17 14:25
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*05/03/17 17:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*81 - 120*		*05/03/17 17:31*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/03/17 17:31*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 17:31*	*1*
Trifluorotoluene (Surr)	*89*		*74 - 118*		*05/03/17 17:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.2**		2.0		ug/L			05/04/17 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/04/17 21:32*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/04/17 21:32*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*05/04/17 21:32*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/04/17 21:32*	*1*
Trifluorotoluene (Surr)	*89*		*74 - 118*		*05/04/17 21:32*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-98
Date Collected: 04/26/17 15:27
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 18:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 18:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 18:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 18:01	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 18:01	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 18:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 18:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 18:01	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 18:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 18:01	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 18:01	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 18:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 18:01	1
2-Butanone	ND		15		ug/L			05/03/17 18:01	1
2-Hexanone	ND		2.0		ug/L			05/03/17 18:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 18:01	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 18:01	1
Benzene	ND		0.20		ug/L			05/03/17 18:01	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 18:01	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 18:01	1
Bromoform	ND		0.50		ug/L			05/03/17 18:01	1
Bromomethane	ND		1.0		ug/L			05/03/17 18:01	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 18:01	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 18:01	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 18:01	1
Chloroethane	ND		0.50		ug/L			05/03/17 18:01	1
Chloroform	ND		0.20		ug/L			05/03/17 18:01	1
Chloromethane	ND		0.30		ug/L			05/03/17 18:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 18:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 18:01	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 18:01	1
Dibromomethane	ND		0.20		ug/L			05/03/17 18:01	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 18:01	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 18:01	1
Methyl iodide	ND		0.50		ug/L			05/03/17 18:01	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 18:01	1
o-Xylene	ND		0.50		ug/L			05/03/17 18:01	1
Styrene	ND		0.50		ug/L			05/03/17 18:01	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 18:01	1
Toluene	ND		0.20		ug/L			05/03/17 18:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 18:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 18:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 18:01	1
Trichloroethene	ND		0.20		ug/L			05/03/17 18:01	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 18:01	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 18:01	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 18:01	1

Client Sample ID: 0417-98
Date Collected: 04/26/17 15:27
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*05/03/17 18:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*05/03/17 18:01*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/03/17 18:01*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 18:01*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*05/03/17 18:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.6**		2.0		ug/L			05/04/17 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/04/17 22:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*05/04/17 22:01*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*05/04/17 22:01*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/04/17 22:01*	*1*
Trifluorotoluene (Surr)	*95*		*74 - 118*		*05/04/17 22:01*	*1*

Client Sample ID: 0417-96
Date Collected: 04/26/17 16:33
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 18:30	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 18:30	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 18:30	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 18:30	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 18:30	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 18:30	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 18:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 18:30	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 18:30	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 18:30	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 18:30	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 18:30	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 18:30	1
2-Butanone	ND		15		ug/L			05/03/17 18:30	1
2-Hexanone	ND		2.0		ug/L			05/03/17 18:30	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 18:30	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 18:30	1
Benzene	ND		0.20		ug/L			05/03/17 18:30	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 18:30	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 18:30	1
Bromoform	ND		0.50		ug/L			05/03/17 18:30	1
Bromomethane	ND		1.0		ug/L			05/03/17 18:30	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 18:30	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 18:30	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 18:30	1
Chloroethane	ND		0.50		ug/L			05/03/17 18:30	1
Chloroform	ND		0.20		ug/L			05/03/17 18:30	1
Chloromethane	ND		0.30		ug/L			05/03/17 18:30	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 18:30	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 18:30	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 18:30	1
Dibromomethane	ND		0.20		ug/L			05/03/17 18:30	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 18:30	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 18:30	1
Methyl iodide	ND		0.50		ug/L			05/03/17 18:30	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 18:30	1
o-Xylene	ND		0.50		ug/L			05/03/17 18:30	1
Styrene	ND		0.50		ug/L			05/03/17 18:30	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 18:30	1
Toluene	ND		0.20		ug/L			05/03/17 18:30	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 18:30	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 18:30	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 18:30	1
Trichloroethene	ND		0.20		ug/L			05/03/17 18:30	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 18:30	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 18:30	1
Vinyl chloride	**0.057**		0.020		ug/L			05/03/17 18:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-96
Date Collected: 04/26/17 16:33
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		46 - 150		05/03/17 18:30	1
4-Bromofluorobenzene (Surr)	105		81 - 120		05/03/17 18:30	1
Dibromofluoromethane (Surr)	101		42 - 132		05/03/17 18:30	1
Toluene-d8 (Surr)	99		75 - 125		05/03/17 18:30	1
Trifluorotoluene (Surr)	94		74 - 118		05/03/17 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.1		2.0		ug/L			05/04/17 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		46 - 150		05/04/17 22:30	1
4-Bromofluorobenzene (Surr)	106		81 - 120		05/04/17 22:30	1
Dibromofluoromethane (Surr)	103		42 - 132		05/04/17 22:30	1
Toluene-d8 (Surr)	96		75 - 125		05/04/17 22:30	1
Trifluorotoluene (Surr)	88		74 - 118		05/04/17 22:30	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-30
Date Collected: 04/26/17 17:35
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 18:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 18:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 18:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 18:59	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 18:59	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 18:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 18:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 18:59	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 18:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 18:59	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 18:59	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 18:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 18:59	1
2-Butanone	ND		15		ug/L			05/03/17 18:59	1
2-Hexanone	ND		2.0		ug/L			05/03/17 18:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 18:59	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 18:59	1
Benzene	ND		0.20		ug/L			05/03/17 18:59	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 18:59	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 18:59	1
Bromoform	ND		0.50		ug/L			05/03/17 18:59	1
Bromomethane	ND		1.0		ug/L			05/03/17 18:59	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 18:59	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 18:59	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 18:59	1
Chloroethane	ND		0.50		ug/L			05/03/17 18:59	1
Chloroform	ND		0.20		ug/L			05/03/17 18:59	1
Chloromethane	ND		0.30		ug/L			05/03/17 18:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 18:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 18:59	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 18:59	1
Dibromomethane	ND		0.20		ug/L			05/03/17 18:59	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 18:59	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 18:59	1
Methyl iodide	ND		0.50		ug/L			05/03/17 18:59	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 18:59	1
o-Xylene	ND		0.50		ug/L			05/03/17 18:59	1
Styrene	ND		0.50		ug/L			05/03/17 18:59	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 18:59	1
Toluene	ND		0.20		ug/L			05/03/17 18:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 18:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 18:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 18:59	1
Trichloroethene	ND		0.20		ug/L			05/03/17 18:59	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 18:59	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 18:59	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 18:59	1

Client Sample ID: 0417-30
Date Collected: 04/26/17 17:35
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*05/03/17 18:59*	*1*
4-Bromofluorobenzene (Surr)	*108*		*81 - 120*		*05/03/17 18:59*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/03/17 18:59*	*1*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/03/17 18:59*	*1*
Trifluorotoluene (Surr)	*88*		*74 - 118*		*05/03/17 18:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.9**		2.0		ug/L			05/04/17 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*05/04/17 22:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*05/04/17 22:59*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/04/17 22:59*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/04/17 22:59*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/04/17 22:59*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**84**		1.1		mg/L		05/04/17 08:59	05/05/17 08:03	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 08:03	1
Magnesium	**47**		1.1		mg/L		05/04/17 08:59	05/05/17 08:03	1
Manganese	ND		0.020		mg/L		05/04/17 08:59	05/05/17 08:03	1
Potassium	**5.6**		3.3		mg/L		05/04/17 08:59	05/05/17 08:03	1
Sodium	**33**		2.0		mg/L		05/04/17 08:59	05/05/17 08:03	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Arsenic	**0.0033**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:16	1
Barium	**0.022**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:16	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Chromium	**0.0012**		0.00040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Copper	**0.046**		0.0020		mg/L		05/04/17 08:59	05/04/17 15:16	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:16	1
Nickel	ND		0.0030		mg/L		05/04/17 08:59	05/04/17 15:16	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:16	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:16	1
Vanadium	ND		0.0040		mg/L		05/04/17 08:59	05/04/17 15:16	1
Zinc	**0.079**		0.0070		mg/L		05/04/17 08:59	05/04/17 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 19:27	1
Chloride	**56**		0.90		mg/L			05/10/17 19:27	1
Sulfate	**43**		1.2		mg/L			05/10/17 19:27	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**1.4**		0.15		mg/L			05/09/17 20:01	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-30
Date Collected: 04/26/17 17:35
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.3**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**520**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	**11**		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-29
Date Collected: 04/26/17 18:45
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 19:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 19:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 19:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 19:28	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 19:28	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 19:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 19:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 19:28	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 19:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 19:28	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 19:28	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 19:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 19:28	1
2-Butanone	ND		15		ug/L			05/03/17 19:28	1
2-Hexanone	ND		2.0		ug/L			05/03/17 19:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 19:28	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 19:28	1
Benzene	ND		0.20		ug/L			05/03/17 19:28	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 19:28	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 19:28	1
Bromoform	ND		0.50		ug/L			05/03/17 19:28	1
Bromomethane	ND		1.0		ug/L			05/03/17 19:28	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 19:28	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 19:28	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 19:28	1
Chloroethane	ND		0.50		ug/L			05/03/17 19:28	1
Chloroform	ND		0.20		ug/L			05/03/17 19:28	1
Chloromethane	ND		0.30		ug/L			05/03/17 19:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 19:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 19:28	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 19:28	1
Dibromomethane	ND		0.20		ug/L			05/03/17 19:28	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 19:28	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 19:28	1
Methyl iodide	ND		0.50		ug/L			05/03/17 19:28	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 19:28	1
o-Xylene	ND		0.50		ug/L			05/03/17 19:28	1
Styrene	ND		0.50		ug/L			05/03/17 19:28	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 19:28	1
Toluene	ND		0.20		ug/L			05/03/17 19:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 19:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 19:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 19:28	1
Trichloroethene	ND		0.20		ug/L			05/03/17 19:28	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 19:28	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 19:28	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 19:28	1

Client Sample ID: 0417-29
Date Collected: 04/26/17 18:45
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*05/03/17 19:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*05/03/17 19:28*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*05/03/17 19:28*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 19:28*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*05/03/17 19:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.9**		2.0		ug/L			05/04/17 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*05/04/17 23:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*05/04/17 23:28*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*05/04/17 23:28*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/04/17 23:28*	*1*
Trifluorotoluene (Surr)	*96*		*74 - 118*		*05/04/17 23:28*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**93**		1.1		mg/L		05/04/17 08:59	05/05/17 08:07	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 08:07	1
Magnesium	**50**		1.1		mg/L		05/04/17 08:59	05/05/17 08:07	1
Manganese	ND		0.020		mg/L		05/04/17 08:59	05/05/17 08:07	1
Potassium	**4.3**		3.3		mg/L		05/04/17 08:59	05/05/17 08:07	1
Sodium	**36**		2.0		mg/L		05/04/17 08:59	05/05/17 08:07	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Arsenic	**0.0020**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:21	1
Barium	**0.026**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:21	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Chromium	**0.0019**		0.00040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 15:21	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:21	1
Nickel	ND		0.0030		mg/L		05/04/17 08:59	05/04/17 15:21	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:21	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:21	1
Vanadium	ND		0.0040		mg/L		05/04/17 08:59	05/04/17 15:21	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 19:42	1
Chloride	**47**		0.90		mg/L			05/10/17 19:42	1
Sulfate	**56**		1.2		mg/L			05/10/17 19:42	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	**3.5**		0.75		mg/L			05/09/17 20:02	5

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-29
Date Collected: 04/26/17 18:45
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.4**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**560**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Client Sample ID: TRIP BLANK
Date Collected: 04/27/17 00:01
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 14:37	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 14:37	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 14:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 14:37	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 14:37	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 14:37	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 14:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 14:37	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 14:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 14:37	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 14:37	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 14:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 14:37	1
2-Butanone	ND		15		ug/L			05/03/17 14:37	1
2-Hexanone	ND		2.0		ug/L			05/03/17 14:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 14:37	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 14:37	1
Benzene	ND		0.20		ug/L			05/03/17 14:37	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 14:37	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 14:37	1
Bromoform	ND		0.50		ug/L			05/03/17 14:37	1
Bromomethane	ND		1.0		ug/L			05/03/17 14:37	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 14:37	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 14:37	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 14:37	1
Chloroethane	ND		0.50		ug/L			05/03/17 14:37	1
Chloroform	ND		0.20		ug/L			05/03/17 14:37	1
Chloromethane	ND		0.30		ug/L			05/03/17 14:37	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 14:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 14:37	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 14:37	1
Dibromomethane	ND		0.20		ug/L			05/03/17 14:37	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 14:37	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 14:37	1
Methyl iodide	ND		0.50		ug/L			05/03/17 14:37	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 14:37	1
o-Xylene	ND		0.50		ug/L			05/03/17 14:37	1
Styrene	ND		0.50		ug/L			05/03/17 14:37	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 14:37	1
Toluene	ND		0.20		ug/L			05/03/17 14:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 14:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 14:37	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 14:37	1
Trichloroethene	ND		0.20		ug/L			05/03/17 14:37	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 14:37	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 14:37	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 14:37	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: TRIP BLANK
Date Collected: 04/27/17 00:01
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*05/03/17 14:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/03/17 14:37*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*05/03/17 14:37*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 14:37*	*1*
Trifluorotoluene (Surr)	*92*		*74 - 118*		*05/03/17 14:37*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			05/04/17 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*05/04/17 19:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/04/17 19:36*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*05/04/17 19:36*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/04/17 19:36*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/04/17 19:36*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-08
Date Collected: 04/27/17 10:40
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 19:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 19:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 19:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 19:57	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 19:57	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 19:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 19:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 19:57	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 19:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 19:57	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 19:57	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 19:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 19:57	1
2-Butanone	ND		15		ug/L			05/03/17 19:57	1
2-Hexanone	ND		2.0		ug/L			05/03/17 19:57	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 19:57	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 19:57	1
Benzene	ND		0.20		ug/L			05/03/17 19:57	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 19:57	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 19:57	1
Bromoform	ND		0.50		ug/L			05/03/17 19:57	1
Bromomethane	ND		1.0		ug/L			05/03/17 19:57	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 19:57	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 19:57	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 19:57	1
Chloroethane	ND		0.50		ug/L			05/03/17 19:57	1
Chloroform	ND		0.20		ug/L			05/03/17 19:57	1
Chloromethane	ND		0.30		ug/L			05/03/17 19:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 19:57	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 19:57	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 19:57	1
Dibromomethane	ND		0.20		ug/L			05/03/17 19:57	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 19:57	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 19:57	1
Methyl iodide	ND		0.50		ug/L			05/03/17 19:57	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 19:57	1
o-Xylene	ND		0.50		ug/L			05/03/17 19:57	1
Styrene	ND		0.50		ug/L			05/03/17 19:57	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 19:57	1
Toluene	ND		0.20		ug/L			05/03/17 19:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 19:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 19:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 19:57	1
Trichloroethene	ND		0.20		ug/L			05/03/17 19:57	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 19:57	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 19:57	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 19:57	1

Client Sample ID: 0417-08
Date Collected: 04/27/17 10:40
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*		*05/03/17 19:57*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/03/17 19:57*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/03/17 19:57*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*05/03/17 19:57*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/03/17 19:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			05/04/17 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*05/04/17 23:57*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/04/17 23:57*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/04/17 23:57*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/04/17 23:57*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*05/04/17 23:57*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		05/04/17 08:59	05/05/17 08:10	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 08:10	1
Magnesium	**98**		1.1		mg/L		05/04/17 08:59	05/05/17 08:10	1
Manganese	**0.24**		0.020		mg/L		05/04/17 08:59	05/05/17 08:10	1
Potassium	**11**		3.3		mg/L		05/04/17 08:59	05/05/17 08:10	1
Sodium	**48**		2.0		mg/L		05/04/17 08:59	05/05/17 08:10	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Arsenic	**0.0035**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:25	1
Barium	**0.080**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:25	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Chromium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 15:25	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:25	1
Nickel	**0.0082**		0.0030		mg/L		05/04/17 08:59	05/04/17 15:25	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:25	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:25	1
Vanadium	ND		0.0040		mg/L		05/04/17 08:59	05/04/17 15:25	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 20:30	1
Chloride	**100**		0.90		mg/L			05/10/17 20:30	1
Sulfate	**63**		1.2		mg/L			05/10/17 20:30	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 20:03	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-08
Date Collected: 04/27/17 10:40
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.0**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**580**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**580**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**840**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 12:00	05/03/17 12:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-09
Date Collected: 04/27/17 11:58
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 20:26	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 20:26	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 20:26	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 20:26	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 20:26	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 20:26	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 20:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 20:26	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 20:26	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 20:26	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 20:26	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 20:26	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 20:26	1
2-Butanone	ND		15		ug/L			05/03/17 20:26	1
2-Hexanone	ND		2.0		ug/L			05/03/17 20:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 20:26	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 20:26	1
Benzene	ND		0.20		ug/L			05/03/17 20:26	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 20:26	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 20:26	1
Bromoform	ND		0.50		ug/L			05/03/17 20:26	1
Bromomethane	ND		1.0		ug/L			05/03/17 20:26	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 20:26	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 20:26	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 20:26	1
Chloroethane	ND		0.50		ug/L			05/03/17 20:26	1
Chloroform	ND		0.20		ug/L			05/03/17 20:26	1
Chloromethane	ND		0.30		ug/L			05/03/17 20:26	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 20:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 20:26	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 20:26	1
Dibromomethane	ND		0.20		ug/L			05/03/17 20:26	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 20:26	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 20:26	1
Methyl iodide	ND		0.50		ug/L			05/03/17 20:26	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 20:26	1
o-Xylene	ND		0.50		ug/L			05/03/17 20:26	1
Styrene	ND		0.50		ug/L			05/03/17 20:26	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 20:26	1
Toluene	ND		0.20		ug/L			05/03/17 20:26	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 20:26	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 20:26	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 20:26	1
Trichloroethene	ND		0.20		ug/L			05/03/17 20:26	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 20:26	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 20:26	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 20:26	1

Client Sample ID: 0417-09
Date Collected: 04/27/17 11:58
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-11
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*05/03/17 20:26*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/03/17 20:26*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*05/03/17 20:26*	*1*
Toluene-d8 (Surr)	*99*		*75 - 125*		*05/03/17 20:26*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*05/03/17 20:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.4**		2.0		ug/L			05/05/17 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*05/05/17 00:26*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/05/17 00:26*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 00:26*	*1*
Toluene-d8 (Surr)	*96*		*75 - 125*		*05/05/17 00:26*	*1*
Trifluorotoluene (Surr)	*87*		*74 - 118*		*05/05/17 00:26*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**67**		1.1		mg/L		05/04/17 08:59	05/05/17 08:13	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 08:13	1
Magnesium	**41**		1.1		mg/L		05/04/17 08:59	05/05/17 08:13	1
Manganese	ND		0.020		mg/L		05/04/17 08:59	05/05/17 08:13	1
Potassium	**6.6**		3.3		mg/L		05/04/17 08:59	05/05/17 08:13	1
Sodium	**27**		2.0		mg/L		05/04/17 08:59	05/05/17 08:13	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Arsenic	**0.0032**		0.0010		mg/L		05/04/17 08:59	05/04/17 15:30	1
Barium	**0.026**		0.0012		mg/L		05/04/17 08:59	05/04/17 15:30	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Chromium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 15:30	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 15:30	1
Nickel	ND		0.0030		mg/L		05/04/17 08:59	05/04/17 15:30	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 15:30	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 15:30	1
Vanadium	ND		0.0040		mg/L		05/04/17 08:59	05/04/17 15:30	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 20:46	1
Chloride	**45**		0.90		mg/L			05/10/17 20:46	1
Sulfate	**38**		1.2		mg/L			05/10/17 20:46	1
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 20:04	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-09
Date Collected: 04/27/17 11:58
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.5**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**290**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**290**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**440**		10		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 12:00	05/03/17 12:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-25
Date Collected: 04/27/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 20:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 20:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 20:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 20:55	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 20:55	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 20:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 20:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 20:55	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 20:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 20:55	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 20:55	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 20:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 20:55	1
2-Butanone	ND		15		ug/L			05/03/17 20:55	1
2-Hexanone	ND		2.0		ug/L			05/03/17 20:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 20:55	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 20:55	1
Benzene	ND		0.20		ug/L			05/03/17 20:55	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 20:55	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 20:55	1
Bromoform	ND		0.50		ug/L			05/03/17 20:55	1
Bromomethane	ND		1.0		ug/L			05/03/17 20:55	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 20:55	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 20:55	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 20:55	1
Chloroethane	ND		0.50		ug/L			05/03/17 20:55	1
Chloroform	ND		0.20		ug/L			05/03/17 20:55	1
Chloromethane	ND		0.30		ug/L			05/03/17 20:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 20:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 20:55	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 20:55	1
Dibromomethane	ND		0.20		ug/L			05/03/17 20:55	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 20:55	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 20:55	1
Methyl iodide	ND		0.50		ug/L			05/03/17 20:55	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 20:55	1
o-Xylene	ND		0.50		ug/L			05/03/17 20:55	1
Styrene	ND		0.50		ug/L			05/03/17 20:55	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 20:55	1
Toluene	ND		0.20		ug/L			05/03/17 20:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 20:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 20:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 20:55	1
Trichloroethene	ND		0.20		ug/L			05/03/17 20:55	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 20:55	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 20:55	1
Vinyl chloride	**0.16**		0.020		ug/L			05/03/17 20:55	1

Client Sample ID: 0417-25
Date Collected: 04/27/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*05/03/17 20:55*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/03/17 20:55*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*05/03/17 20:55*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 20:55*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/03/17 20:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			05/05/17 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*05/05/17 00:56*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 120*		*05/05/17 00:56*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*05/05/17 00:56*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/05/17 00:56*	*1*
Trifluorotoluene (Surr)	*88*		*74 - 118*		*05/05/17 00:56*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		1.1		mg/L		05/10/17 09:04	05/15/17 12:28	1
Iron	ND		0.30		mg/L		05/10/17 09:04	05/15/17 12:28	1
Magnesium	**110**		1.1		mg/L		05/10/17 09:04	05/15/17 12:28	1
Manganese	**0.044**		0.020		mg/L		05/10/17 09:04	05/15/17 12:28	1
Potassium	**8.8**		3.3		mg/L		05/10/17 09:04	05/15/17 12:28	1
Sodium	**45**		2.0		mg/L		05/10/17 09:04	05/15/17 12:28	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Arsenic	**0.0056**		0.0010		mg/L		05/10/17 09:04	05/10/17 19:00	1
Barium	**0.046**		0.0012		mg/L		05/10/17 09:04	05/10/17 19:00	1
Beryllium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Cadmium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Chromium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Co	**0.00074**		0.00040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Copper	ND		0.0020		mg/L		05/10/17 09:04	05/10/17 19:00	1
Lead	ND		0.00080		mg/L		05/10/17 09:04	05/10/17 19:00	1
Nickel	**0.0053**		0.0030		mg/L		05/10/17 09:04	05/10/17 19:00	1
Selenium	ND		0.0080		mg/L		05/10/17 09:04	05/10/17 19:00	1
Silver	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Thallium	ND		0.0010		mg/L		05/10/17 09:04	05/10/17 19:00	1
Vanadium	**0.0068**		0.0040		mg/L		05/10/17 09:04	05/10/17 19:00	1
Zinc	ND		0.0070		mg/L		05/10/17 09:04	05/10/17 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 21:02	1
Chloride	**66**		0.90		mg/L			05/10/17 21:02	1
Sulfate	**63**		1.2		mg/L			05/10/17 21:02	1
Ammonia	ND		0.20		mg/L		05/09/17 14:24	05/10/17 09:41	1
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 20:06	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-25
Date Collected: 04/27/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-12
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.3**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**820**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**820**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**1000**		20		mg/L			05/02/17 14:54	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 12:00	05/03/17 12:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-05
Date Collected: 04/27/17 14:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 21:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 21:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 21:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 21:25	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 21:25	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 21:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 21:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 21:25	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 21:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 21:25	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 21:25	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 21:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 21:25	1
2-Butanone	ND		15		ug/L			05/03/17 21:25	1
2-Hexanone	ND		2.0		ug/L			05/03/17 21:25	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 21:25	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 21:25	1
Benzene	ND		0.20		ug/L			05/03/17 21:25	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 21:25	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 21:25	1
Bromoform	ND		0.50		ug/L			05/03/17 21:25	1
Bromomethane	ND		1.0		ug/L			05/03/17 21:25	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 21:25	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 21:25	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 21:25	1
Chloroethane	ND		0.50		ug/L			05/03/17 21:25	1
Chloroform	ND		0.20		ug/L			05/03/17 21:25	1
Chloromethane	ND		0.30		ug/L			05/03/17 21:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 21:25	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 21:25	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 21:25	1
Dibromomethane	ND		0.20		ug/L			05/03/17 21:25	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 21:25	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 21:25	1
Methyl iodide	ND		0.50		ug/L			05/03/17 21:25	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 21:25	1
o-Xylene	ND		0.50		ug/L			05/03/17 21:25	1
Styrene	ND		0.50		ug/L			05/03/17 21:25	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 21:25	1
Toluene	ND		0.20		ug/L			05/03/17 21:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 21:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 21:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 21:25	1
Trichloroethene	ND		0.20		ug/L			05/03/17 21:25	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 21:25	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 21:25	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 21:25	1

Client Sample ID: 0417-05
Date Collected: 04/27/17 14:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*05/03/17 21:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*		*05/03/17 21:25*	*1*
Dibromofluoromethane (Surr)	*104*		*42 - 132*		*05/03/17 21:25*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/03/17 21:25*	*1*
Trifluorotoluene (Surr)	*91*		*74 - 118*		*05/03/17 21:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**7.2**		2.0		ug/L			05/05/17 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*05/05/17 01:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 120*		*05/05/17 01:25*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*05/05/17 01:25*	*1*
Toluene-d8 (Surr)	*97*		*75 - 125*		*05/05/17 01:25*	*1*
Trifluorotoluene (Surr)	*90*		*74 - 118*		*05/05/17 01:25*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**43**		1.1		mg/L		05/10/17 09:04	05/15/17 12:53	1
Iron	**0.40**		0.30		mg/L		05/10/17 09:04	05/15/17 12:53	1
Magnesium	**31**		1.1		mg/L		05/10/17 09:04	05/15/17 12:53	1
Manganese	**0.099**		0.020		mg/L		05/10/17 09:04	05/15/17 12:53	1
Potassium	**9.4**		3.3		mg/L		05/10/17 09:04	05/15/17 12:53	1
Sodium	**20**		2.0		mg/L		05/10/17 09:04	05/15/17 12:53	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Arsenic	**0.037**		0.0010		mg/L		05/10/17 09:04	05/10/17 19:05	1
Barium	**0.040**		0.0012		mg/L		05/10/17 09:04	05/10/17 19:05	1
Beryllium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Cadmium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Chromium	**0.0023**		0.00040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Co	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Copper	**0.020**		0.0020		mg/L		05/10/17 09:04	05/10/17 19:05	1
Lead	**0.0030**		0.00080		mg/L		05/10/17 09:04	05/10/17 19:05	1
Nickel	ND		0.0030		mg/L		05/10/17 09:04	05/10/17 19:05	1
Selenium	ND		0.0080		mg/L		05/10/17 09:04	05/10/17 19:05	1
Silver	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Thallium	ND		0.0010		mg/L		05/10/17 09:04	05/10/17 19:05	1
Vanadium	ND		0.0040		mg/L		05/10/17 09:04	05/10/17 19:05	1
Zinc	**1.7**		0.0070		mg/L		05/10/17 09:04	05/10/17 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 21:18	1
Chloride	**34**		0.90		mg/L			05/10/17 21:18	1
Sulfate	**14**		1.2		mg/L			05/10/17 21:18	1
Ammonia	ND		0.20		mg/L		05/09/17 14:24	05/10/17 09:41	1
Nitrate Nitrite as N	ND	F1	0.15		mg/L			05/09/17 20:08	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-05
Date Collected: 04/27/17 14:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.4**		1.0		mg/L			05/09/17 20:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**230**		5.0		mg/L			05/09/17 17:51	1
Bicarbonate Alkalinity as CaCO3	**230**		5.0		mg/L			05/09/17 17:51	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			05/09/17 17:51	1
Total Dissolved Solids	**350**		10		mg/L			05/04/17 15:59	1
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 12:00	05/03/17 12:00	1

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

Lab Sample ID: MB 580-244830/4
Matrix: Water
Analysis Batch: 244830

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 13:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/03/17 13:10	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/03/17 13:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/03/17 13:10	1
1,1-Dichloroethane	ND		0.20		ug/L			05/03/17 13:10	1
1,1-Dichloroethene	ND		0.10		ug/L			05/03/17 13:10	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/03/17 13:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/03/17 13:10	1
1,2-Dibromoethane	ND		0.10		ug/L			05/03/17 13:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/03/17 13:10	1
1,2-Dichloroethane	ND		0.20		ug/L			05/03/17 13:10	1
1,2-Dichloropropane	ND		0.20		ug/L			05/03/17 13:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/03/17 13:10	1
2-Butanone	ND		15		ug/L			05/03/17 13:10	1
2-Hexanone	ND		2.0		ug/L			05/03/17 13:10	1
4-Methyl-2-pentanone	ND		5.0		ug/L			05/03/17 13:10	1
Acetone	ND		2.0		ug/L			05/03/17 13:10	1
Acrylonitrile	ND		5.0		ug/L			05/03/17 13:10	1
Benzene	ND		0.20		ug/L			05/03/17 13:10	1
Bromochloromethane	ND		0.20		ug/L			05/03/17 13:10	1
Bromodichloromethane	ND		0.20		ug/L			05/03/17 13:10	1
Bromoform	ND		0.50		ug/L			05/03/17 13:10	1
Bromomethane	ND		1.0		ug/L			05/03/17 13:10	1
Carbon disulfide	ND		0.20		ug/L			05/03/17 13:10	1
Carbon tetrachloride	ND		0.20		ug/L			05/03/17 13:10	1
Chlorobenzene	ND		0.20		ug/L			05/03/17 13:10	1
Chloroethane	ND		0.50		ug/L			05/03/17 13:10	1
Chloroform	ND		0.20		ug/L			05/03/17 13:10	1
Chloromethane	ND		0.30		ug/L			05/03/17 13:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 13:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/03/17 13:10	1
Dibromochloromethane	ND		0.20		ug/L			05/03/17 13:10	1
Dibromomethane	ND		0.20		ug/L			05/03/17 13:10	1
Ethylbenzene	ND		0.20		ug/L			05/03/17 13:10	1
m,p-Xylene	ND		0.50		ug/L			05/03/17 13:10	1
Methyl iodide	ND		0.50		ug/L			05/03/17 13:10	1
Methylene Chloride	ND		0.50		ug/L			05/03/17 13:10	1
o-Xylene	ND		0.50		ug/L			05/03/17 13:10	1
Styrene	ND		0.50		ug/L			05/03/17 13:10	1
Tetrachloroethene	ND		0.50		ug/L			05/03/17 13:10	1
Toluene	ND		0.20		ug/L			05/03/17 13:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/03/17 13:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/03/17 13:10	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/03/17 13:10	1
Trichloroethene	ND		0.20		ug/L			05/03/17 13:10	1
Trichlorofluoromethane	ND		0.50		ug/L			05/03/17 13:10	1
Vinyl acetate	ND		1.0		ug/L			05/03/17 13:10	1
Vinyl chloride	ND		0.020		ug/L			05/03/17 13:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		46 - 150		05/03/17 13:10	1
4-Bromofluorobenzene (Surr)	106		81 - 120		05/03/17 13:10	1
Dibromofluoromethane (Surr)	101		42 - 132		05/03/17 13:10	1
Toluene-d8 (Surr)	96		75 - 125		05/03/17 13:10	1
Trifluorotoluene (Surr)	88		74 - 118		05/03/17 13:10	1

Lab Sample ID: LCS 580-244830/5
Matrix: Water
Analysis Batch: 244830

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.08		ug/L		102	68 - 139
1,1,1-Trichloroethane	5.00	5.48		ug/L		110	56 - 150
1,1,2,2-Tetrachloroethane	5.00	4.80		ug/L		96	60 - 134
1,1,2-Trichloroethane	5.00	4.90		ug/L		98	62 - 137
1,1-Dichloroethane	5.00	5.23		ug/L		105	68 - 135
1,1-Dichloroethene	5.00	4.97		ug/L		99	64 - 125
1,2,3-Trichloropropane	5.00	4.59		ug/L		92	45 - 150
1,2-Dibromo-3-Chloropropane	5.00	4.40		ug/L		88	34 - 150
1,2-Dibromoethane	5.00	4.95		ug/L		99	56 - 146
1,2-Dichlorobenzene	5.00	5.17		ug/L		103	73 - 120
1,2-Dichloroethane	5.00	5.25		ug/L		105	63 - 150
1,2-Dichloropropane	5.00	5.33		ug/L		107	72 - 120
1,4-Dichlorobenzene	5.00	5.27		ug/L		105	77 - 120
2-Butanone	25.0	22.0		ug/L		88	30 - 150
2-Hexanone	25.0	23.9		ug/L		96	25 - 150
4-Methyl-2-pentanone	25.0	23.8		ug/L		95	36 - 150
Acetone	25.0	20.5		ug/L		82	20 - 138
Acrylonitrile	50.0	47.0		ug/L		94	55 - 134
Benzene	5.00	5.65		ug/L		113	73 - 120
Bromochloromethane	5.00	5.19		ug/L		104	71 - 131
Bromodichloromethane	5.00	5.14		ug/L		103	62 - 150
Bromoform	5.00	4.82		ug/L		96	51 - 137
Bromomethane	5.00	4.96		ug/L		99	61 - 135
Carbon disulfide	5.00	4.97		ug/L		99	65 - 128
Carbon tetrachloride	5.00	5.40		ug/L		108	54 - 150
Chlorobenzene	5.00	5.23		ug/L		105	74 - 114
Chloroethane	5.00	5.10		ug/L		102	58 - 130
Chloroform	5.00	5.29		ug/L		106	71 - 130
Chloromethane	5.00	4.40		ug/L		88	40 - 150
cis-1,2-Dichloroethene	5.00	5.24		ug/L		105	73 - 130
cis-1,3-Dichloropropene	5.00	5.13		ug/L		103	54 - 150
Dibromochloromethane	5.00	4.91		ug/L		98	46 - 150
Dibromomethane	5.00	5.21		ug/L		104	65 - 137
Ethylbenzene	5.00	4.93		ug/L		99	74 - 125
m,p-Xylene	5.00	5.41		ug/L		108	73 - 130
Methyl iodide	5.00	5.21		ug/L		104	47 - 145
Methylene Chloride	5.00	4.98		ug/L		100	58 - 134
o-Xylene	5.00	4.81		ug/L		96	80 - 139
Styrene	5.00	5.58		ug/L		112	68 - 136
Tetrachloroethene	5.00	5.07		ug/L		101	67 - 123
Toluene	5.00	4.92		ug/L		98	70 - 126
trans-1,2-Dichloroethene	5.00	5.21		ug/L		104	69 - 124
trans-1,3-Dichloropropene	5.00	5.07		ug/L		101	40 - 150

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

Lab Sample ID: LCS 580-244830/5
Matrix: Water
Analysis Batch: 244830

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	4.85		ug/L		97	20 - 150
Trichloroethene	5.00	5.29		ug/L		106	72 - 123
Trichlorofluoromethane	5.00	4.74		ug/L		95	60 - 150
Vinyl acetate	12.5	15.2		ug/L		121	30 - 150
Vinyl chloride	5.00	4.73		ug/L		95	59 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*
Dibromofluoromethane (Surr)	*103*		*42 - 132*
Toluene-d8 (Surr)	*94*		*75 - 125*
Trifluorotoluene (Surr)	*89*		*74 - 118*

Lab Sample ID: LCSD 580-244830/6
Matrix: Water
Analysis Batch: 244830

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.97		ug/L		99	68 - 139	2	20
1,1,1-Trichloroethane	5.00	5.37		ug/L		107	56 - 150	2	29
1,1,2,2-Tetrachloroethane	5.00	4.52		ug/L		90	60 - 134	6	25
1,1,2-Trichloroethane	5.00	4.76		ug/L		95	62 - 137	3	30
1,1-Dichloroethane	5.00	5.29		ug/L		106	68 - 135	1	27
1,1-Dichloroethene	5.00	5.15		ug/L		103	64 - 125	4	28
1,2,3-Trichloropropane	5.00	4.41		ug/L		88	45 - 150	4	20
1,2-Dibromo-3-Chloropropane	5.00	4.28		ug/L		86	34 - 150	3	20
1,2-Dibromoethane	5.00	4.80		ug/L		96	56 - 146	3	20
1,2-Dichlorobenzene	5.00	5.05		ug/L		101	73 - 120	2	14
1,2-Dichloroethane	5.00	5.17		ug/L		103	63 - 150	1	29
1,2-Dichloropropane	5.00	5.24		ug/L		105	72 - 120	2	20
1,4-Dichlorobenzene	5.00	5.22		ug/L		104	77 - 120	1	11
2-Butanone	25.0	20.0		ug/L		80	30 - 150	9	35
2-Hexanone	25.0	22.2		ug/L		89	25 - 150	8	28
4-Methyl-2-pentanone	25.0	22.7		ug/L		91	36 - 150	5	34
Acetone	25.0	18.8		ug/L		75	20 - 138	9	35
Acrylonitrile	50.0	44.3		ug/L		89	55 - 134	6	35
Benzene	5.00	5.65		ug/L		113	73 - 120	0	20
Bromochloromethane	5.00	5.17		ug/L		103	71 - 131	0	20
Bromodichloromethane	5.00	5.25		ug/L		105	62 - 150	2	20
Bromoform	5.00	4.69		ug/L		94	51 - 137	3	20
Bromomethane	5.00	4.95		ug/L		99	61 - 135	0	31
Carbon disulfide	5.00	4.88		ug/L		98	65 - 128	2	32
Carbon tetrachloride	5.00	5.33		ug/L		107	54 - 150	1	30
Chlorobenzene	5.00	5.20		ug/L		104	74 - 114	1	12
Chloroethane	5.00	5.29		ug/L		106	58 - 130	4	35
Chloroform	5.00	5.29		ug/L		106	71 - 130	0	20
Chloromethane	5.00	4.43		ug/L		89	40 - 150	1	31
cis-1,2-Dichloroethene	5.00	5.28		ug/L		106	73 - 130	1	20

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

Lab Sample ID: LCSD 580-244830/6
Matrix: Water
Analysis Batch: 244830

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			5.00	5.02		ug/L		100	54 - 150	2	28
Dibromochloromethane			5.00	4.83		ug/L		97	46 - 150	2	20
Dibromomethane			5.00	5.19		ug/L		104	65 - 137	0	20
Ethylbenzene			5.00	4.88		ug/L		98	74 - 125	1	20
m,p-Xylene			5.00	5.38		ug/L		108	73 - 130	0	20
Methyl iodide			5.00	5.25		ug/L		105	47 - 145	1	35
Methylene Chloride			5.00	5.01		ug/L		100	58 - 134	1	29
o-Xylene			5.00	4.80		ug/L		96	80 - 139	0	20
Styrene			5.00	5.53		ug/L		111	68 - 136	1	20
Tetrachloroethene			5.00	5.06		ug/L		101	67 - 123	0	20
Toluene			5.00	4.87		ug/L		97	70 - 126	1	20
trans-1,2-Dichloroethene			5.00	5.18		ug/L		104	69 - 124	0	27
trans-1,3-Dichloropropene			5.00	4.86		ug/L		97	40 - 150	4	30
trans-1,4-Dichloro-2-butene			5.00	4.62		ug/L		92	20 - 150	5	20
Trichloroethene			5.00	5.27		ug/L		105	72 - 123	0	20
Trichlorofluoromethane			5.00	4.66		ug/L		93	60 - 150	2	31
Vinyl acetate			12.5	15.1		ug/L		121	30 - 150	0	35
Vinyl chloride			5.00	4.88		ug/L		98	59 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*
4-Bromofluorobenzene (Surr)	*104*		*81 - 120*
Dibromofluoromethane (Surr)	*102*		*42 - 132*
Toluene-d8 (Surr)	*94*		*75 - 125*
Trifluorotoluene (Surr)	*86*		*74 - 118*

Lab Sample ID: MB 580-245039/4
Matrix: Water
Analysis Batch: 245039

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			05/04/17 17:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*46 - 150*		*05/04/17 17:53*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*		*05/04/17 17:53*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*05/04/17 17:53*	*1*
Toluene-d8 (Surr)	*98*		*75 - 125*		*05/04/17 17:53*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*05/04/17 17:53*	*1*

Lab Sample ID: LCS 580-245039/5
Matrix: Water
Analysis Batch: 245039

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			25.0	24.5		ug/L		98	20 - 138		

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

Lab Sample ID: LCS 580-245039/5
Matrix: Water
Analysis Batch: 245039

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*
4-Bromofluorobenzene (Surr)	*103*		*81 - 120*
Dibromofluoromethane (Surr)	*102*		*42 - 132*
Toluene-d8 (Surr)	*92*		*75 - 125*
Trifluorotoluene (Surr)	*88*		*74 - 118*

Lab Sample ID: LCSD 580-245039/6
Matrix: Water
Analysis Batch: 245039

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			25.0	19.5		ug/L		78	20 - 138	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*46 - 150*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
Dibromofluoromethane (Surr)	*104*		*42 - 132*
Toluene-d8 (Surr)	*95*		*75 - 125*
Trifluorotoluene (Surr)	*95*		*74 - 118*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-244938/21-A
Matrix: Water
Analysis Batch: 245137

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/04/17 08:59	05/05/17 07:16	1
Iron	ND		0.30		mg/L		05/04/17 08:59	05/05/17 07:16	1
Magnesium	ND		1.1		mg/L		05/04/17 08:59	05/05/17 07:16	1
Manganese	ND		0.020		mg/L		05/04/17 08:59	05/05/17 07:16	1
Potassium	ND		3.3		mg/L		05/04/17 08:59	05/05/17 07:16	1
Sodium	ND		2.0		mg/L		05/04/17 08:59	05/05/17 07:16	1

Lab Sample ID: LCS 580-244938/22-A
Matrix: Water
Analysis Batch: 245137

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	20.5		mg/L		103	80 - 120
Iron			22.0	22.0		mg/L		100	80 - 120
Magnesium			20.0	20.4		mg/L		102	80 - 120
Manganese			1.00	1.02		mg/L		102	80 - 120
Potassium			20.0	20.2		mg/L		101	80 - 120
Sodium			20.0	20.4		mg/L		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-244938/23-A
Matrix: Water
Analysis Batch: 245137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	22.1		mg/L		110	80 - 120	7	20
Iron	22.0	24.1		mg/L		110	80 - 120	9	20
Magnesium	20.0	21.7		mg/L		108	80 - 120	6	20
Manganese	1.00	1.09		mg/L		109	80 - 120	7	20
Potassium	20.0	21.5		mg/L		107	80 - 120	6	20
Sodium	20.0	21.7		mg/L		109	80 - 120	6	20

Lab Sample ID: MB 580-245438/21-A
Matrix: Water
Analysis Batch: 245905

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		05/10/17 09:04	05/15/17 12:19	1
Iron	ND		0.30		mg/L		05/10/17 09:04	05/15/17 12:19	1
Magnesium	ND		1.1		mg/L		05/10/17 09:04	05/15/17 12:19	1
Manganese	ND		0.020		mg/L		05/10/17 09:04	05/15/17 12:19	1
Potassium	ND		3.3		mg/L		05/10/17 09:04	05/15/17 12:19	1
Sodium	ND		2.0		mg/L		05/10/17 09:04	05/15/17 12:19	1

Lab Sample ID: LCS 580-245438/22-A
Matrix: Water
Analysis Batch: 245905

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	19.4		mg/L		97	80 - 120
Iron	22.0	21.0		mg/L		96	80 - 120
Magnesium	20.0	19.1		mg/L		95	80 - 120
Manganese	1.00	0.988		mg/L		99	80 - 120
Potassium	20.0	19.3		mg/L		96	80 - 120
Sodium	20.0	19.5		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-245438/23-A
Matrix: Water
Analysis Batch: 245905

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.7		mg/L		98	80 - 120	1	20
Iron	22.0	21.3		mg/L		97	80 - 120	1	20
Magnesium	20.0	19.3		mg/L		96	80 - 120	1	20
Manganese	1.00	1.01		mg/L		101	80 - 120	2	20
Potassium	20.0	19.5		mg/L		98	80 - 120	1	20
Sodium	20.0	19.8		mg/L		99	80 - 120	2	20

Lab Sample ID: 580-67900-1 MS
Matrix: Water
Analysis Batch: 245137

Client Sample ID: 0417-12
Prep Type: Dissolved
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	140		20.0	158	4	mg/L		94	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-67900-1 MS
Matrix: Water
Analysis Batch: 245137

Client Sample ID: 0417-12
Prep Type: Dissolved
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		22.0	22.3		mg/L		101	75 - 125
Magnesium	83		20.0	103	4	mg/L		99	75 - 125
Manganese	0.038		1.00	1.06		mg/L		102	75 - 125
Potassium	7.0		20.0	27.9		mg/L		105	75 - 125
Sodium	31		20.0	51.7		mg/L		105	75 - 125

Lab Sample ID: 580-67900-1 MSD
Matrix: Water
Analysis Batch: 245137

Client Sample ID: 0417-12
Prep Type: Dissolved
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	140		20.0	166	4	mg/L		135	75 - 125	5	20
Iron	ND		22.0	23.2		mg/L		105	75 - 125	4	20
Magnesium	83		20.0	108	4	mg/L		122	75 - 125	4	20
Manganese	0.038		1.00	1.11		mg/L		107	75 - 125	4	20
Potassium	7.0		20.0	29.1		mg/L		111	75 - 125	4	20
Sodium	31		20.0	54.1		mg/L		117	75 - 125	5	20

Lab Sample ID: 580-67900-1 DU
Matrix: Water
Analysis Batch: 245137

Client Sample ID: 0417-12
Prep Type: Dissolved
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	140		139		mg/L		0	20
Iron	ND		ND		mg/L		NC	20
Magnesium	83		83.5		mg/L		0.4	20
Manganese	0.038		0.0383		mg/L		0.3	20
Potassium	7.0		7.08		mg/L		1	20
Sodium	31		31.1		mg/L		1	20

Lab Sample ID: 580-67900-12 MS
Matrix: Water
Analysis Batch: 245905

Client Sample ID: 0417-25
Prep Type: Dissolved
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	170		20.0	183	4	mg/L		60	75 - 125
Iron	ND		22.0	20.4		mg/L		93	75 - 125
Magnesium	110		20.0	126	4	mg/L		73	75 - 125
Manganese	0.044		1.00	1.00		mg/L		96	75 - 125
Potassium	8.8		20.0	27.7		mg/L		95	75 - 125
Sodium	45		20.0	62.2		mg/L		87	75 - 125

Lab Sample ID: 580-67900-12 MSD
Matrix: Water
Analysis Batch: 245905

Client Sample ID: 0417-25
Prep Type: Dissolved
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	170		20.0	190	4	mg/L		95	75 - 125	4	20
Iron	ND		22.0	20.7		mg/L		94	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-67900-12 MSD
Matrix: Water
Analysis Batch: 245905

Client Sample ID: 0417-25
Prep Type: Dissolved
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium	110		20.0	130	4	mg/L		92	75 - 125	3	20
Manganese	0.044		1.00	1.02		mg/L		98	75 - 125	2	20
Potassium	8.8		20.0	28.7		mg/L		99	75 - 125	3	20
Sodium	45		20.0	64.2		mg/L		97	75 - 125	3	20

Lab Sample ID: 580-67900-12 DU
Matrix: Water
Analysis Batch: 245905

Client Sample ID: 0417-25
Prep Type: Dissolved
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	170		173		mg/L		1	20
Iron	ND		ND		mg/L		NC	20
Magnesium	110		113		mg/L		1	20
Manganese	0.044		0.0446		mg/L		0.4	20
Potassium	8.8		8.87		mg/L		1	20
Sodium	45		45.1		mg/L		0.8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-244938/21-A
Matrix: Water
Analysis Batch: 245083

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Arsenic	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 16:00	1
Barium	ND		0.0012		mg/L		05/04/17 08:59	05/04/17 16:00	1
Beryllium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Cadmium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Chromium	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Co	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Copper	ND		0.0020		mg/L		05/04/17 08:59	05/04/17 16:00	1
Lead	ND		0.00080		mg/L		05/04/17 08:59	05/04/17 16:00	1
Nickel	ND		0.0030		mg/L		05/04/17 08:59	05/04/17 16:00	1
Selenium	ND		0.0080		mg/L		05/04/17 08:59	05/04/17 16:00	1
Silver	ND		0.00040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Thallium	ND		0.0010		mg/L		05/04/17 08:59	05/04/17 16:00	1
Vanadium	ND		0.0040		mg/L		05/04/17 08:59	05/04/17 16:00	1
Zinc	ND		0.0070		mg/L		05/04/17 08:59	05/04/17 16:00	1

Lab Sample ID: LCS 580-244938/22-A
Matrix: Water
Analysis Batch: 245083

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.92		mg/L		97	80 - 120
Arsenic	4.00	3.94		mg/L		99	80 - 120
Barium	4.00	3.92		mg/L		98	80 - 120
Beryllium	0.100	0.0976		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-244938/22-A
Matrix: Water
Analysis Batch: 245083

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.100	0.100		mg/L		100	80 - 120
Chromium	0.400	0.377		mg/L		94	80 - 120
Co	1.00	0.950		mg/L		95	80 - 120
Copper	0.500	0.487		mg/L		97	80 - 120
Lead	1.00	0.918		mg/L		92	80 - 120
Nickel	1.00	0.968		mg/L		97	80 - 120
Selenium	4.00	4.04		mg/L		101	80 - 120
Silver	0.600	0.577		mg/L		96	80 - 120
Thallium	4.00	3.62		mg/L		91	80 - 120
Vanadium	1.00	0.932		mg/L		93	80 - 120
Zinc	4.00	3.86		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-244938/23-A
Matrix: Water
Analysis Batch: 245083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.94		mg/L		98	80 - 120	1	20
Arsenic	4.00	3.96		mg/L		99	80 - 120	0	20
Barium	4.00	4.00		mg/L		100	80 - 120	2	20
Beryllium	0.100	0.0986		mg/L		99	80 - 120	1	20
Cadmium	0.100	0.0988		mg/L		99	80 - 120	2	20
Chromium	0.400	0.382		mg/L		95	80 - 120	1	20
Co	1.00	0.947		mg/L		95	80 - 120	0	20
Copper	0.500	0.487		mg/L		97	80 - 120	0	20
Lead	1.00	0.909		mg/L		91	80 - 120	1	20
Nickel	1.00	0.965		mg/L		96	80 - 120	0	20
Selenium	4.00	4.03		mg/L		101	80 - 120	0	20
Silver	0.600	0.577		mg/L		96	80 - 120	0	20
Thallium	4.00	3.64		mg/L		91	80 - 120	0	20
Vanadium	1.00	0.941		mg/L		94	80 - 120	1	20
Zinc	4.00	3.89		mg/L		97	80 - 120	1	20

Lab Sample ID: 580-67900-1 MS
Matrix: Water
Analysis Batch: 245083

Client Sample ID: 0417-12
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.09		mg/L		103	80 - 120
Arsenic	ND		4.00	4.17		mg/L		104	80 - 120
Barium	0.036		4.00	4.28		mg/L		106	80 - 120
Beryllium	ND		0.100	0.101		mg/L		101	80 - 120
Cadmium	ND		0.100	0.110		mg/L		110	80 - 120
Chromium	ND		0.400	0.407		mg/L		102	80 - 120
Co	ND		1.00	1.01		mg/L		101	80 - 120
Copper	ND		0.500	0.515		mg/L		103	80 - 120
Lead	ND		1.00	0.975		mg/L		97	80 - 120
Nickel	ND		1.00	1.03		mg/L		102	80 - 120
Selenium	ND		4.00	4.32		mg/L		108	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-67900-1 MS
Matrix: Water
Analysis Batch: 245083

Client Sample ID: 0417-12
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		0.600	0.611		mg/L		102	80 - 120
Thallium	ND		4.00	3.86		mg/L		97	80 - 120
Vanadium	ND		1.00	1.01		mg/L		101	80 - 120
Zinc	ND		4.00	4.10		mg/L		103	80 - 120

Lab Sample ID: 580-67900-1 MSD
Matrix: Water
Analysis Batch: 245083

Client Sample ID: 0417-12
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.10		mg/L		103	80 - 120	0	20
Arsenic	ND		4.00	4.19		mg/L		105	80 - 120	0	20
Barium	0.036		4.00	4.28		mg/L		106	80 - 120	0	20
Beryllium	ND		0.100	0.103		mg/L		103	80 - 120	1	20
Cadmium	ND		0.100	0.106		mg/L		106	80 - 120	4	20
Chromium	ND		0.400	0.414		mg/L		103	80 - 120	2	20
Co	ND		1.00	1.01		mg/L		101	80 - 120	1	20
Copper	ND		0.500	0.523		mg/L		105	80 - 120	2	20
Lead	ND		1.00	0.990		mg/L		99	80 - 120	2	20
Nickel	ND		1.00	1.04		mg/L		103	80 - 120	0	20
Selenium	ND		4.00	4.34		mg/L		108	80 - 120	0	20
Silver	ND		0.600	0.620		mg/L		103	80 - 120	2	20
Thallium	ND		4.00	3.97		mg/L		99	80 - 120	3	20
Vanadium	ND		1.00	1.02		mg/L		101	80 - 120	1	20
Zinc	ND		4.00	4.13		mg/L		103	80 - 120	1	20

Lab Sample ID: 580-67900-1 DU
Matrix: Water
Analysis Batch: 245083

Client Sample ID: 0417-12
Prep Type: Total Recoverable
Prep Batch: 244938

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Barium	0.036		0.0351		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Co	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-245438/21-A
Matrix: Water
Analysis Batch: 245587

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Arsenic	ND		0.0010		mg/L		05/10/17 09:04	05/10/17 18:47	1
Barium	ND		0.0012		mg/L		05/10/17 09:04	05/10/17 18:47	1
Beryllium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Cadmium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Chromium	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Co	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Copper	ND		0.0020		mg/L		05/10/17 09:04	05/10/17 18:47	1
Lead	ND		0.00080		mg/L		05/10/17 09:04	05/10/17 18:47	1
Nickel	ND		0.0030		mg/L		05/10/17 09:04	05/10/17 18:47	1
Selenium	ND		0.0080		mg/L		05/10/17 09:04	05/10/17 18:47	1
Silver	ND		0.00040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Thallium	ND		0.0010		mg/L		05/10/17 09:04	05/10/17 18:47	1
Vanadium	ND		0.0040		mg/L		05/10/17 09:04	05/10/17 18:47	1
Zinc	ND		0.0070		mg/L		05/10/17 09:04	05/10/17 18:47	1

Lab Sample ID: LCS 580-245438/22-A
Matrix: Water
Analysis Batch: 245587

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.90		mg/L		97	80 - 120
Arsenic	4.00	3.89		mg/L		97	80 - 120
Barium	4.00	3.89		mg/L		97	80 - 120
Beryllium	0.100	0.0951		mg/L		95	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.382		mg/L		96	80 - 120
Co	1.00	0.937		mg/L		94	80 - 120
Copper	0.500	0.492		mg/L		98	80 - 120
Lead	1.00	0.935		mg/L		93	80 - 120
Nickel	1.00	0.975		mg/L		98	80 - 120
Selenium	4.00	3.91		mg/L		98	80 - 120
Silver	0.600	0.585		mg/L		98	80 - 120
Thallium	4.00	3.62		mg/L		90	80 - 120
Vanadium	1.00	0.953		mg/L		95	80 - 120
Zinc	4.00	3.88		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-245438/23-A
Matrix: Water
Analysis Batch: 245587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.85		mg/L		95	80 - 120	2	20
Arsenic	4.00	3.81		mg/L		95	80 - 120	2	20
Barium	4.00	3.84		mg/L		96	80 - 120	1	20
Beryllium	0.100	0.0956		mg/L		96	80 - 120	1	20
Cadmium	0.100	0.0984		mg/L		98	80 - 120	2	20
Chromium	0.400	0.380		mg/L		95	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-245438/23-A
Matrix: Water
Analysis Batch: 245587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Co			1.00	0.920		mg/L		92	80 - 120	2	20
Copper			0.500	0.490		mg/L		98	80 - 120	0	20
Lead			1.00	0.920		mg/L		92	80 - 120	2	20
Nickel			1.00	0.957		mg/L		96	80 - 120	2	20
Selenium			4.00	3.81		mg/L		95	80 - 120	3	20
Silver			0.600	0.581		mg/L		97	80 - 120	1	20
Thallium			4.00	3.60		mg/L		90	80 - 120	0	20
Vanadium			1.00	0.942		mg/L		94	80 - 120	1	20
Zinc			4.00	3.84		mg/L		96	80 - 120	1	20

Lab Sample ID: 580-67900-12 MS
Matrix: Water
Analysis Batch: 245587

Client Sample ID: 0417-25
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.39		mg/L		113	80 - 120
Arsenic	0.0056		4.00	4.12		mg/L		103	80 - 120
Barium	0.046		4.00	4.17		mg/L		103	80 - 120
Beryllium	ND		0.100	0.101		mg/L		101	80 - 120
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120
Chromium	ND		0.400	0.404		mg/L		101	80 - 120
Co	ND		1.00	0.999		mg/L		100	80 - 120
Copper	ND		0.500	0.520		mg/L		104	80 - 120
Lead	ND		1.00	1.00		mg/L		100	80 - 120
Nickel	ND		1.00	1.05		mg/L		104	80 - 120
Selenium	ND		4.00	4.15		mg/L		104	80 - 120
Silver	ND		0.600	0.608		mg/L		101	80 - 120
Thallium	ND		4.00	3.80		mg/L		95	80 - 120
Vanadium	ND		1.00	1.01		mg/L		101	80 - 120
Zinc	ND		4.00	4.10		mg/L		102	80 - 120

Lab Sample ID: 580-67900-12 MSD
Matrix: Water
Analysis Batch: 245587

Client Sample ID: 0417-25
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.31		mg/L		110	80 - 120	2	20
Arsenic	0.0056		4.00	4.02		mg/L		100	80 - 120	2	20
Barium	0.046		4.00	4.07		mg/L		101	80 - 120	2	20
Beryllium	ND		0.100	0.0966		mg/L		97	80 - 120	5	20
Cadmium	ND		0.100	0.103		mg/L		103	80 - 120	1	20
Chromium	ND		0.400	0.396		mg/L		99	80 - 120	2	20
Co	ND		1.00	0.977		mg/L		98	80 - 120	2	20
Copper	ND		0.500	0.508		mg/L		102	80 - 120	2	20
Lead	ND		1.00	0.978		mg/L		98	80 - 120	2	20
Nickel	ND		1.00	1.02		mg/L		102	80 - 120	2	20
Selenium	ND		4.00	4.05		mg/L		101	80 - 120	2	20
Silver	ND		0.600	0.604		mg/L		101	80 - 120	1	20
Thallium	ND		4.00	3.79		mg/L		95	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-67900-12 MSD
Matrix: Water
Analysis Batch: 245587

Client Sample ID: 0417-25
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	0.994		mg/L		99	80 - 120	2	20
Zinc	ND		4.00	4.01		mg/L		100	80 - 120	2	20

Lab Sample ID: 580-67900-12 DU
Matrix: Water
Analysis Batch: 245587

Client Sample ID: 0417-25
Prep Type: Total Recoverable
Prep Batch: 245438

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0056		0.00562		mg/L		1	20
Barium	0.046		0.0480		mg/L		4	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Co	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-245610/3
Matrix: Water
Analysis Batch: 245610

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			05/10/17 17:20	1
Chloride	ND		0.90		mg/L			05/10/17 17:20	1
Sulfate	ND		1.2		mg/L			05/10/17 17:20	1

Lab Sample ID: LCS 580-245610/4
Matrix: Water
Analysis Batch: 245610

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.81		mg/L		96	90 - 110
Chloride	50.0	50.7		mg/L		101	90 - 110
Sulfate	50.0	50.5		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-245610/5
Matrix: Water
Analysis Batch: 245610

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			5.00	4.81		mg/L		96	90 - 110	0	15
Chloride			50.0	50.7		mg/L		101	90 - 110	0	15
Sulfate			50.0	50.5		mg/L		101	90 - 110	0	15

Lab Sample ID: 580-67900-1 MS
Matrix: Water
Analysis Batch: 245610

Client Sample ID: 0417-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	4.90		mg/L		98	90 - 110
Chloride	56		50.0	101		mg/L		91	90 - 110
Sulfate	98	F1	50.0	139	F1	mg/L		82	90 - 110

Lab Sample ID: 580-67900-1 MSD
Matrix: Water
Analysis Batch: 245610

Client Sample ID: 0417-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	4.92		mg/L		98	90 - 110	0	15
Chloride	56		50.0	101		mg/L		91	90 - 110	0	15
Sulfate	98	F1	50.0	139	F1	mg/L		82	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-245192/1-A
Matrix: Water
Analysis Batch: 245193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245192

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/05/17 12:21	05/06/17 12:25	1

Lab Sample ID: LCS 580-245192/2-A
Matrix: Water
Analysis Batch: 245193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245192

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia			2.00	2.19		mg/L		109	90 - 110

Lab Sample ID: MB 580-245372/1-A
Matrix: Water
Analysis Batch: 245457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		05/09/17 14:24	05/10/17 09:41	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-245372/2-A
Matrix: Water
Analysis Batch: 245457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	2.17		mg/L		109	90 - 110		

Lab Sample ID: 580-67900-12 MS
Matrix: Water
Analysis Batch: 245457

Client Sample ID: 0417-25
Prep Type: Total/NA
Prep Batch: 245372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND		2.00	1.98		mg/L		99	90 - 110		

Lab Sample ID: 580-67900-12 MSD
Matrix: Water
Analysis Batch: 245457

Client Sample ID: 0417-25
Prep Type: Total/NA
Prep Batch: 245372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	2.18		mg/L		109	90 - 110	10	20

Lab Sample ID: 580-67900-12 DU
Matrix: Water
Analysis Batch: 245457

Client Sample ID: 0417-25
Prep Type: Total/NA
Prep Batch: 245372

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-245426/48
Matrix: Water
Analysis Batch: 245426

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			05/09/17 19:47	1

Lab Sample ID: LCS 580-245426/49
Matrix: Water
Analysis Batch: 245426

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	0.950		mg/L		95	90 - 110		

Lab Sample ID: LCSD 580-245426/50
Matrix: Water
Analysis Batch: 245426

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.946		mg/L		95	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-67900-13 MS
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	0.500	0.187	F1	mg/L		37	90 - 110

Lab Sample ID: 580-67900-13 MSD
Matrix: Water
Analysis Batch: 245426

Client Sample ID: 0417-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.185	F1	mg/L		37	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-245420/2
Matrix: Water
Analysis Batch: 245420

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity			100	101		mg/L		101	85 - 115

Lab Sample ID: 580-67900-1 DU
Matrix: Water
Analysis Batch: 245420

Client Sample ID: 0417-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	400			415		mg/L				4	17
Bicarbonate Alkalinity as CaCO3	400			415		mg/L				4	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-244749/1
Matrix: Water
Analysis Batch: 244749

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/02/17 14:54	1

Lab Sample ID: LCS 580-244749/2
Matrix: Water
Analysis Batch: 244749

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids			1000	1040		mg/L		104	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 580-67900-10 DU
Matrix: Water
Analysis Batch: 244749

Client Sample ID: 0417-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	840			851		mg/L				1	20

Lab Sample ID: MB 580-245034/1
Matrix: Water
Analysis Batch: 245034

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			05/04/17 15:59	1

Lab Sample ID: LCS 580-245034/2
Matrix: Water
Analysis Batch: 245034

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1060		mg/L		106	80 - 120		

Lab Sample ID: 580-67900-13 DU
Matrix: Water
Analysis Batch: 245034

Client Sample ID: 0417-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	350			335		mg/L				5	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-244903/3-A
Matrix: Water
Analysis Batch: 244905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244903

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 12:00	05/03/17 12:00	1

Lab Sample ID: LCS 580-244903/4-A
Matrix: Water
Analysis Batch: 244905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244903

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	71.4		mg/L		95	80 - 120		

Lab Sample ID: 580-67900-10 MS
Matrix: Water
Analysis Batch: 244905

Client Sample ID: 0417-08
Prep Type: Total/NA
Prep Batch: 244903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND		25.0	18.7		mg/L		75	75 - 125		

Method: SM 5220D - COD (Continued)

Lab Sample ID: 580-67900-10 DU
Matrix: Water
Analysis Batch: 244905

Client Sample ID: 0417-08
Prep Type: Total/NA
Prep Batch: 244903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-244908/3-A
Matrix: Water
Analysis Batch: 244909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244908

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		05/03/17 15:00	05/03/17 15:00	1

Lab Sample ID: LCS 580-244908/4-A
Matrix: Water
Analysis Batch: 244909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	70.5		mg/L		94	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-245469/3
Matrix: Water
Analysis Batch: 245469

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/09/17 13:06	1

Lab Sample ID: LCS 580-245469/4
Matrix: Water
Analysis Batch: 245469

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.0		mg/L		100	85 - 115

Lab Sample ID: MB 580-245477/3
Matrix: Water
Analysis Batch: 245477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			05/09/17 20:05	1

Lab Sample ID: LCS 580-245477/4
Matrix: Water
Analysis Batch: 245477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.68		mg/L		97	85 - 115

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-67900-3 MS
Matrix: Water
Analysis Batch: 245477

Client Sample ID: 0417-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.5		10.0	11.9		mg/L		94	85 - 115

Lab Sample ID: 580-67900-3 MSD
Matrix: Water
Analysis Batch: 245477

Client Sample ID: 0417-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.5		10.0	11.7		mg/L		92	85 - 115	2	20

Lab Sample ID: 580-67900-3 DU
Matrix: Water
Analysis Batch: 245477

Client Sample ID: 0417-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.5		2.46		mg/L		0.3	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-12

Date Collected: 04/26/17 10:30
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 16:03	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 20:05	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 07:28	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:02	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 18:07	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		20	245426	05/09/17 19:55	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245469	05/09/17 13:06	Z1T	TAL SEA

Client Sample ID: 0417-18

Date Collected: 04/26/17 11:50
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 16:33	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 20:34	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 07:57	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:07	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 18:55	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		10	245426	05/09/17 19:56	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245469	05/09/17 13:06	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-17

Date Collected: 04/26/17 13:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 17:02	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 21:03	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 08:00	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:11	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 19:11	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		5	245426	05/09/17 19:57	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Client Sample ID: 0417-95

Date Collected: 04/26/17 14:25
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 17:31	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 21:32	D1R	TAL SEA

Client Sample ID: 0417-98

Date Collected: 04/26/17 15:27
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 18:01	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 22:01	D1R	TAL SEA

Client Sample ID: 0417-96

Date Collected: 04/26/17 16:33
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 18:30	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 22:30	D1R	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-30

Date Collected: 04/26/17 17:35
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 18:59	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 22:59	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 08:03	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:16	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 19:27	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 20:01	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Client Sample ID: 0417-29

Date Collected: 04/26/17 18:45
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 19:28	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 23:28	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 08:07	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:21	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 19:42	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		5	245426	05/09/17 20:02	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244908	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244909	05/03/17 15:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Client Sample ID: TRIP BLANK

Lab Sample ID: 580-67900-9

Date Collected: 04/27/17 00:01

Matrix: Water

Date Received: 04/28/17 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 14:37	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 19:36	D1R	TAL SEA

Client Sample ID: 0417-08

Lab Sample ID: 580-67900-10

Date Collected: 04/27/17 10:40

Matrix: Water

Date Received: 04/28/17 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 19:57	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/04/17 23:57	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 08:10	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:25	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 20:30	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 20:03	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244903	05/03/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244905	05/03/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Client Sample ID: 0417-09

Lab Sample ID: 580-67900-11

Date Collected: 04/27/17 11:58

Matrix: Water

Date Received: 04/28/17 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 20:26	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/05/17 00:26	D1R	TAL SEA
Dissolved	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245137	05/05/17 08:13	SPP	TAL SEA
Total Recoverable	Prep	3005A			244938	05/04/17 08:59	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245083	05/04/17 15:30	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 20:46	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245192	05/05/17 12:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245193	05/06/17 12:25	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 20:04	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244903	05/03/17 12:00	Z1T	TAL SEA

Client Sample ID: 0417-09

Lab Sample ID: 580-67900-11

Date Collected: 04/27/17 11:58

Matrix: Water

Date Received: 04/28/17 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	244905	05/03/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Client Sample ID: 0417-25

Lab Sample ID: 580-67900-12

Date Collected: 04/27/17 13:15

Matrix: Water

Date Received: 04/28/17 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 20:55	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/05/17 00:56	D1R	TAL SEA
Dissolved	Prep	3005A			245438	05/10/17 09:04	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245905	05/15/17 12:28	HJM	TAL SEA
Total Recoverable	Prep	3005A			245438	05/10/17 09:04	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245587	05/10/17 19:00	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 21:02	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245372	05/09/17 14:24	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245457	05/10/17 09:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 20:06	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	244749	05/02/17 14:54	EMM	TAL SEA
Total/NA	Prep	SM 5220			244903	05/03/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	244905	05/03/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Client Sample ID: 0417-05

Lab Sample ID: 580-67900-13

Date Collected: 04/27/17 14:15

Matrix: Water

Date Received: 04/28/17 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	244830	05/03/17 21:25	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	245039	05/05/17 01:25	D1R	TAL SEA
Dissolved	Prep	3005A			245438	05/10/17 09:04	ADB	TAL SEA
Dissolved	Analysis	6010C		1	245905	05/15/17 12:53	HJM	TAL SEA
Total Recoverable	Prep	3005A			245438	05/10/17 09:04	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	245587	05/10/17 19:05	FCW	TAL SEA
Total/NA	Analysis	300.0		1	245610	05/10/17 21:18	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			245372	05/09/17 14:24	EMM	TAL SEA
Total/NA	Analysis	350.1		1	245457	05/10/17 09:41	EMM	TAL SEA
Total/NA	Analysis	353.2		1	245426	05/09/17 20:08	Z1T	TAL SEA
Total/NA	Analysis	SM 2320B		1	245420	05/09/17 17:51	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	245034	05/04/17 15:59	EMM	TAL SEA
Total/NA	Prep	SM 5220			244903	05/03/17 12:00	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Client Sample ID: 0417-05

Date Collected: 04/27/17 14:15
Date Received: 04/28/17 13:00

Lab Sample ID: 580-67900-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	244905	05/03/17 12:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	245477	05/09/17 20:05	Z1T	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Co
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-67900-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-67900-1	0417-12	Water	04/26/17 10:30	04/28/17 13:00
580-67900-2	0417-18	Water	04/26/17 11:50	04/28/17 13:00
580-67900-3	0417-17	Water	04/26/17 13:15	04/28/17 13:00
580-67900-4	0417-95	Water	04/26/17 14:25	04/28/17 13:00
580-67900-5	0417-98	Water	04/26/17 15:27	04/28/17 13:00
580-67900-6	0417-96	Water	04/26/17 16:33	04/28/17 13:00
580-67900-7	0417-30	Water	04/26/17 17:35	04/28/17 13:00
580-67900-8	0417-29	Water	04/26/17 18:45	04/28/17 13:00
580-67900-9	TRIP BLANK	Water	04/27/17 00:01	04/28/17 13:00
580-67900-10	0417-08	Water	04/27/17 10:40	04/28/17 13:00
580-67900-11	0417-09	Water	04/27/17 11:58	04/28/17 13:00
580-67900-12	0417-25	Water	04/27/17 13:15	04/28/17 13:00
580-67900-13	0417-05	Water	04/27/17 14:15	04/28/17 13:00

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 580
67900

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
Sam Graber	Dan Venchiarutti	4/28/17	33202

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page / of
2405 140th Ave NE Suite 107			Page 1 of 2

City	State	Zip Code	Sampler	Lab Contact
Bellevue	WA	98005	Sam G.	Cathy Gamble

Project Name and Location (State)	Billing Contact
CSWF	Dan V.

Contract/Purchase Order/Quote No.

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	TDS	Cl, F, SO4	N-combo	8260 C-LL
0417-12	4/26/17	1030		X			3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-18		1150					3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-17		1315					3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-95		1425								3												X
0417-98		1527								3												X
0417-96		1633								3												X
0417-30		1735					3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-29	↓	1845		↓			3	2	2	3			X	X	X	X	X	X	X	X	X	X
Trip blank	4/27/17	—		X						6												X
0417-08	4/27/17	1040					3	2	2	3			X	X	X	X	X	X	X	X	X	X
0417-09		1158											X	X	X	X	X	X	X	X	X	X
0417-25	↓	1315		↓			↓	↓	↓	↓			X	X	X	X	X	X	X	X	X	X

Special Instructions/ Conditions of Receipt

580-67900 Chain of Custody

Cooler
☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
Sam Graber	4/28/17	1100	Francisco Luna, J.	4/28/17	1300
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comn TB #2 Cooler ___ Cor 3.7 Unc 3.9 — Cooler Dsc Lg Red/white @Lab 1530 — DISTI Wet/Packs Packing Bubble w/o

TB #2 Cooler ___ Cor 3.8 Unc 4.0 — Cooler Dsc Lg Blue/white @Lab 1530 — Wet/Packs Packing Bubble w/o

TB #2 Cooler ___ Cor 4.7 Unc 4.9 — Cooler Dsc Lg Blue/white @Lab 1530 — Wet/Packs Packing Bubble w/o

TB #2 Cooler ___ Cor 2.8 Unc 3.0 — Cooler Dsc Lg Blue/white @Lab 1530 — Wet/Packs Packing Bubble w/o

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Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
SCS Engineers	Dan Venchiarutti	4/28/17	33203
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2405 140th Ave NE Suite 107			
City	**State**	**Zip Code**	**Sampler**
Bellevue	WA	98005	Sam G.
Lab Contact			
Cathy Gamble			
Project Name and Location (State)	**Billing Contact**		
CSWF	Dan V.		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): COD	Alkalinity	Total Metals	Dissolved Metals	Ammonia	TOC	TDS	Cl, F, SO4	N-combo	8260 C LL	Special Instructions/ Conditions of Receipt
047-05	4/27/17	1415		X			3	2	2	3			X	X	X	X	X	X	X	X	X	X	

Cooler	Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
☐ Yes ☐ No Cooler Temp: _____	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months	

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Sam Graber	4/28/17	1100	1. Received By Sign/Print: Francisco Lara, Jr.	4/28/17	1300
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-550 (0210)

5/16/2017

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-67900-1

Login Number: 67900
List Number: 1
Creator: Gall, Brandon A

List Source: TestAmerica Seattle

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

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 3Q 2017

Project Details

Project No.	04207033.10	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Graber	**Data Level**	Level II
Date	9/11/17	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-70142-1	Samples arrived in good condition. 8260 LL was sent to Onsite for analysis due to TestAmerica equipment issues.	Test America
580-70201-1	Samples arrived in good condition. 8260 LL was sent to Onsite for analysis due to TestAmerica equipment issues.	Test America
580-70247-1	Samples arrived in good condition. 8260 LL was sent to Onsite for analysis due to TestAmerica equipment issues.	Test America
17-18648	Samples arrived in good condition.	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-70142-1	X	X	X	X	X	X	-
580-70201-1	X	X	X	X	X	X	-
580-70247-1	X	X	X	X	X	X	X
17-18648	-	-	X	-	-	-	-

X = Analysis performed on at least one sample in sample group.

- = Analysis not performed on any sample in sample group.

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-70142-1, 580-70201-1, 580-70247-1, 17-18648)
LCS/LCSD	Acceptable	See case narrative (580-70142-1, 580-70201-1, 580-70247-1, 17-18648)
Duplicates	Acceptable	See case narrative (580-70142-1, 580-70201-1, 580-70247-1, 17-18648)
MS/MSD	Acceptable	See case narrative (580-70142-1, 580-70201-1, 580-70247-1, 17-18648)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.
Trip Blank		None.	No detections.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S (0717-19)**	**C1S DUP (0717-32)**	**RPD (%)**	**W1D (0717-14)**	**W1D DUP (0717-31)**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.57	0.57	0.00	0.20 U	0.20 U	0.00
Acetone	ug/L	5.0 U	5.3	5.83	5.0 U	5.0 U	0.00
Alkalinity	mg/L	390	400	2.53	380	370	2.67
Ammonia	mg/L	0.24	0.2 U	18.18	0.2	0.3	40.0
Arsenic	mg/L	0.0019	0.0018	5.41	0.0079	0.0084	6.13
Barium	mg/L	0.035	0.034	2.90	0.055	0.06	8.70
Bicarbonate Alkalinity	mg/L	390	400	2.53	380	370	2.67
Calcium	mg/L	140	130	7.41	54	57	5.41
Chemical Oxygen Demand	mg/L	11	11	0.00	11	10 U	9.52
Chloride	mg/L	3.9	3.9	0.00	61	61	0.00
Chromium	mg/L	0.0085	0.0085	0.00	0.0004 U	0.0004 U	0.00
cis-1,2-Dichloroethene	ug/L	0.3	0.3	0.00	0.2 U	0.2 U	0.00
Dichlorodifluoromethane	ug/L	10	10	0.00	0.20 U	0.20 U	0.00
Magnesium	mg/L	53	51	3.85	67	70	4.38
Manganese	mg/L	0.02 U	0.02 U	0.00	0.15	0.15	0.00
Nickel	mg/L	0.0062	0.0061	1.63	0.003 U	0.003 U	0.00
Nitrate Nitrite as N	mg/L	3.8	3.8	0.00	0.15 U	0.15 U	0.00
Potassium	mg/L	5.8	5.5	5.31	9.7	10	3.05
Sodium	mg/L	26	25	3.92	43	45	4.55
Sulfate	mg/L	140	140	0.00	33	33	0.00
Total Dissolved Solids	mg/L	680	680	0.00	530	520	1.90
Total Organic Carbon	mg/L	6.3	6.5	3.13	2.4	2.6	8.00
Trichloroethene	ug/L	0.22	0.20 U	9.52	0.20 U	0.20 U	0.00
Trichlorofluoromethane	ug/L	4.9	4.7	4.17	0.20 U	0.20 U	0.00

U = Reporting limit used in place of a non-detection for the given parameter to allow for calculation.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
B	Compound was found in the blank and sample.	580-70142-1, 580-70201-1, 580-70247-1
E	Result exceeded calibration range.	
F1	MS and/or MSD Recovery is outside acceptance limits.	580-70142-1, 580-70201-1, 580-70247-1
F2	MS/MSD RPS exceeds control limits.	580-70247-1
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.	580-70142-1, 580-70201-1, 580-70247-1
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	580-70142-1, 580-70201-1, 580-70247-1
4	MS, MSD: the analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	580-70142-1, 580-70201-1, 580-70247-1
^	ICV, CCV, ICB, CCB, ISA, CRI, CRA, DLCK, or MRL standard: Instrument related QC is outside acceptance limits.	580-70201-1

*	LCS or LCSD is outside control limits.	580-70247-1

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-70201-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
9/13/2017 2:59:15 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

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

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Case Narrative

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Job ID: 580-70201-1

Laboratory: TestAmerica Seattle

Narrative

Revised Report: Results must be reported to the RL.

Receipt
The samples were received on 7/27/2017 3:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.2º C, 0.2º C, 2.8º C, 4.4º C and 4.4º C.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL) associated with batch 580-252622 recovered above the upper control limit for Na. The samples associated with this CCVL were greater than 10 times the reporting limit for the affected analytes; therefore, the data have been reported.

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

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

Subcontract Work
Method Volatiles, custom list, low level: This method was subcontracted to OnSite Environmental Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client Sample ID: 0717-14
Date Collected: 07/25/17 10:08
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**54**		1.1		mg/L		07/28/17 13:51	07/31/17 15:21	1
Iron	ND		0.30		mg/L		07/28/17 13:51	07/31/17 15:21	1
Magnesium	**67**		1.1		mg/L		07/28/17 13:51	07/31/17 15:21	1
Manganese	**0.15**		0.020		mg/L		07/28/17 13:51	07/31/17 15:21	1
Potassium	**9.7**		3.3		mg/L		07/28/17 13:51	07/31/17 15:21	1
Sodium	**43**	^	2.0		mg/L		07/28/17 13:51	07/31/17 15:21	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Arsenic	**0.0079**		0.0010		mg/L		07/28/17 13:51	07/31/17 09:52	1
Barium	**0.055**		0.0012		mg/L		07/28/17 13:51	07/31/17 09:52	1
Beryllium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Cadmium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Chromium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Cobalt	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Copper	ND		0.0020		mg/L		07/28/17 13:51	07/31/17 09:52	1
Lead	ND		0.00080		mg/L		07/28/17 13:51	07/31/17 09:52	1
Nickel	ND		0.0030		mg/L		07/28/17 13:51	07/31/17 09:52	1
Selenium	ND		0.0080		mg/L		07/28/17 13:51	07/31/17 09:52	1
Silver	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Thallium	ND		0.0010		mg/L		07/28/17 13:51	07/31/17 09:52	1
Vanadium	ND		0.0040		mg/L		07/28/17 13:51	07/31/17 09:52	1
Zinc	ND		0.0070		mg/L		07/28/17 13:51	07/31/17 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 13:40	1
Chloride	**61**		0.90		mg/L			07/28/17 13:40	1
Sulfate	**33**		1.2		mg/L			07/28/17 13:40	1
Ammonia	**0.20**		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:22	1
Total Organic Carbon	**2.4**		1.0		mg/L			07/28/17 20:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**530**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**11**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-15

Date Collected: 07/25/17 11:47
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-2

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		07/28/17 13:51	07/31/17 15:46	1
Iron	**0.31**		0.30		mg/L		07/28/17 13:51	07/31/17 15:46	1
Magnesium	**100**		1.1		mg/L		07/28/17 13:51	07/31/17 15:46	1
Manganese	**0.27**		0.020		mg/L		07/28/17 13:51	07/31/17 15:46	1
Potassium	**10**		3.3		mg/L		07/28/17 13:51	07/31/17 15:46	1
Sodium	**48**	^	2.0		mg/L		07/28/17 13:51	07/31/17 15:46	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Arsenic	**0.0054**		0.0010		mg/L		07/28/17 13:51	07/31/17 09:57	1
Barium	**0.10**		0.0012		mg/L		07/28/17 13:51	07/31/17 09:57	1
Beryllium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Cadmium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Chromium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Cobalt	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Copper	ND		0.0020		mg/L		07/28/17 13:51	07/31/17 09:57	1
Lead	ND		0.00080		mg/L		07/28/17 13:51	07/31/17 09:57	1
Nickel	**0.0095**		0.0030		mg/L		07/28/17 13:51	07/31/17 09:57	1
Selenium	ND		0.0080		mg/L		07/28/17 13:51	07/31/17 09:57	1
Silver	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Thallium	ND		0.0010		mg/L		07/28/17 13:51	07/31/17 09:57	1
Vanadium	ND		0.0040		mg/L		07/28/17 13:51	07/31/17 09:57	1
Zinc	ND		0.0070		mg/L		07/28/17 13:51	07/31/17 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 13:55	1
Chloride	**140**		90		mg/L			07/28/17 14:10	100
Sulfate	**170**		120		mg/L			07/28/17 14:10	100
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:26	1
Total Organic Carbon	**3.9**		1.0		mg/L			07/28/17 21:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**500**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**500**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**890**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**12**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-16
Date Collected: 07/25/17 12:47
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-3
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**32**		1.1		mg/L		07/28/17 13:51	07/31/17 15:50	1
Iron	ND		0.30		mg/L		07/28/17 13:51	07/31/17 15:50	1
Magnesium	**29**		1.1		mg/L		07/28/17 13:51	07/31/17 15:50	1
Manganese	ND		0.020		mg/L		07/28/17 13:51	07/31/17 15:50	1
Potassium	ND		3.3		mg/L		07/28/17 13:51	07/31/17 15:50	1
Sodium	**11**		2.0		mg/L		07/28/17 13:51	08/01/17 09:28	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Arsenic	**0.0022**		0.0010		mg/L		07/28/17 13:51	07/31/17 10:01	1
Barium	**0.012**		0.0012		mg/L		07/28/17 13:51	07/31/17 10:01	1
Beryllium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Cadmium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Chromium	**0.0025**		0.00040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Cobalt	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Copper	ND		0.0020		mg/L		07/28/17 13:51	07/31/17 10:01	1
Lead	ND		0.00080		mg/L		07/28/17 13:51	07/31/17 10:01	1
Nickel	**0.0059**		0.0030		mg/L		07/28/17 13:51	07/31/17 10:01	1
Selenium	ND		0.0080		mg/L		07/28/17 13:51	07/31/17 10:01	1
Silver	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Thallium	ND		0.0010		mg/L		07/28/17 13:51	07/31/17 10:01	1
Vanadium	**0.0046**		0.0040		mg/L		07/28/17 13:51	07/31/17 10:01	1
Zinc	ND		0.0070		mg/L		07/28/17 13:51	07/31/17 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 14:24	1
Chloride	**3.6**		0.90		mg/L			07/28/17 14:24	1
Sulfate	**7.3**		1.2		mg/L			07/28/17 14:24	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**1.2**		0.15		mg/L			07/28/17 13:27	1
Total Organic Carbon	**2.0**		1.0		mg/L			07/28/17 22:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**190**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**190**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**240**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**13**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-04
Date Collected: 07/25/17 14:00
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-4
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**40**		1.1		mg/L		08/01/17 08:56	08/01/17 15:13	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:13	1
Magnesium	**27**		1.1		mg/L		08/01/17 08:56	08/01/17 15:13	1
Manganese	**0.077**		0.020		mg/L		08/01/17 08:56	08/01/17 15:13	1
Potassium	**11**		3.3		mg/L		08/01/17 08:56	08/01/17 15:13	1
Sodium	**34**		2.0		mg/L		08/01/17 08:56	08/01/17 15:13	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Arsenic	**0.015**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:30	1
Barium	**0.031**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:30	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Chromium	**0.00057**		0.00040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 16:30	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 16:30	1
Nickel	ND		0.0030		mg/L		08/01/17 08:56	08/01/17 16:30	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:30	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:30	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 16:30	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 14:39	1
Chloride	**28**		0.90		mg/L			07/28/17 14:39	1
Sulfate	**11**		1.2		mg/L			07/28/17 14:39	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:29	1
Total Organic Carbon	**3.4**		1.0		mg/L			07/28/17 22:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**310**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**11**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-03
Date Collected: 07/25/17 15:18
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-5
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		1.1		mg/L		08/01/17 08:56	08/01/17 15:38	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:38	1
Magnesium	**61**		1.1		mg/L		08/01/17 08:56	08/01/17 15:38	1
Manganese	ND		0.020		mg/L		08/01/17 08:56	08/01/17 15:38	1
Potassium	**7.0**		3.3		mg/L		08/01/17 08:56	08/01/17 15:38	1
Sodium	**34**		2.0		mg/L		08/01/17 08:56	08/01/17 15:38	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Arsenic	**0.0032**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:34	1
Barium	**0.044**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:34	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Chromium	**0.0049**		0.00040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 16:34	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 16:34	1
Nickel	ND		0.0030		mg/L		08/01/17 08:56	08/01/17 16:34	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:34	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:34	1
Vanadium	**0.0059**		0.0040		mg/L		08/01/17 08:56	08/01/17 16:34	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 14:54	1
Chloride	**42**		0.90		mg/L			07/28/17 14:54	1
Sulfate	**42**		1.2		mg/L			07/28/17 14:54	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**1.3**		0.15		mg/L			07/28/17 13:32	1
Total Organic Carbon	**1.6**		1.0		mg/L			07/28/17 22:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**540**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**540**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**680**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**12**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-19

Date Collected: 07/25/17 16:29
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-6

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		08/01/17 08:56	08/01/17 15:41	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:41	1
Magnesium	**53**		1.1		mg/L		08/01/17 08:56	08/01/17 15:41	1
Manganese	ND		0.020		mg/L		08/01/17 08:56	08/01/17 15:41	1
Potassium	**5.8**		3.3		mg/L		08/01/17 08:56	08/01/17 15:41	1
Sodium	**26**		2.0		mg/L		08/01/17 08:56	08/01/17 15:41	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Arsenic	**0.0019**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:39	1
Barium	**0.035**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:39	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Chromium	**0.0085**		0.00040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 16:39	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 16:39	1
Nickel	**0.0062**		0.0030		mg/L		08/01/17 08:56	08/01/17 16:39	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:39	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:39	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 16:39	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 15:09	1
Chloride	**3.9**		0.90		mg/L			07/28/17 15:09	1
Sulfate	**140**		12		mg/L			07/28/17 19:33	10
Ammonia	**0.24**		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**3.8**		0.75		mg/L			07/28/17 14:09	5
Total Organic Carbon	**6.3**		1.0		mg/L			07/28/17 23:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**390**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**390**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**680**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**11**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-32
Date Collected: 07/25/17 16:40
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-7
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		08/01/17 08:56	08/01/17 15:44	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:44	1
Magnesium	**51**		1.1		mg/L		08/01/17 08:56	08/01/17 15:44	1
Manganese	ND		0.020		mg/L		08/01/17 08:56	08/01/17 15:44	1
Potassium	**5.5**		3.3		mg/L		08/01/17 08:56	08/01/17 15:44	1
Sodium	**25**		2.0		mg/L		08/01/17 08:56	08/01/17 15:44	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Arsenic	**0.0018**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:43	1
Barium	**0.034**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:43	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Chromium	**0.0085**		0.00040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 16:43	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 16:43	1
Nickel	**0.0061**		0.0030		mg/L		08/01/17 08:56	08/01/17 16:43	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:43	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:43	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 16:43	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 15:23	1
Chloride	**3.9**		0.90		mg/L			07/28/17 15:23	1
Sulfate	**140**		12		mg/L			07/28/17 19:48	10
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**3.8**		0.75		mg/L			07/28/17 14:15	5
Total Organic Carbon	**6.5**		1.0		mg/L			07/28/17 23:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**680**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**11**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-30

Date Collected: 07/25/17 17:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-8

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**83**		1.1		mg/L		08/01/17 08:56	08/01/17 15:48	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:48	1
Magnesium	**48**		1.1		mg/L		08/01/17 08:56	08/01/17 15:48	1
Manganese	ND		0.020		mg/L		08/01/17 08:56	08/01/17 15:48	1
Potassium	**5.8**		3.3		mg/L		08/01/17 08:56	08/01/17 15:48	1
Sodium	**34**		2.0		mg/L		08/01/17 08:56	08/01/17 15:48	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Arsenic	**0.0037**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:48	1
Barium	**0.022**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:48	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Chromium	**0.0012**		0.00040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Copper	**0.054**		0.0020		mg/L		08/01/17 08:56	08/01/17 16:48	1
Lead	**0.00084**		0.00080		mg/L		08/01/17 08:56	08/01/17 16:48	1
Nickel	ND		0.0030		mg/L		08/01/17 08:56	08/01/17 16:48	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:48	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:48	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 16:48	1
Zinc	**0.11**		0.0070		mg/L		08/01/17 08:56	08/01/17 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 16:37	1
Chloride	**51**		0.90		mg/L			07/28/17 16:37	1
Sulfate	**40**		1.2		mg/L			07/28/17 16:37	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**1.4**		0.15		mg/L			07/28/17 14:16	1
Total Organic Carbon	**2.0**		1.0		mg/L			07/29/17 01:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**500**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-29
Date Collected: 07/25/17 19:00
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-9
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**94**		1.1		mg/L		08/01/17 08:56	08/01/17 15:51	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:51	1
Magnesium	**52**		1.1		mg/L		08/01/17 08:56	08/01/17 15:51	1
Manganese	ND		0.020		mg/L		08/01/17 08:56	08/01/17 15:51	1
Potassium	**4.4**		3.3		mg/L		08/01/17 08:56	08/01/17 15:51	1
Sodium	**37**		2.0		mg/L		08/01/17 08:56	08/01/17 15:51	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Arsenic	**0.0023**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:52	1
Barium	**0.025**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:52	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Chromium	**0.0019**		0.00040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 16:52	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 16:52	1
Nickel	ND		0.0030		mg/L		08/01/17 08:56	08/01/17 16:52	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:52	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:52	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 16:52	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 16:52	1
Chloride	**44**		0.90		mg/L			07/28/17 16:52	1
Sulfate	**53**		1.2		mg/L			07/28/17 16:52	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**3.5**		0.75		mg/L			07/28/17 14:17	5
Total Organic Carbon	**2.3**		1.0		mg/L			07/29/17 02:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**530**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-31
Date Collected: 07/25/17 10:15
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-10
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**57**		1.1		mg/L		08/01/17 08:56	08/01/17 15:54	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:54	1
Magnesium	**70**		1.1		mg/L		08/01/17 08:56	08/01/17 15:54	1
Manganese	**0.15**		0.020		mg/L		08/01/17 08:56	08/01/17 15:54	1
Potassium	**10**		3.3		mg/L		08/01/17 08:56	08/01/17 15:54	1
Sodium	**45**		2.0		mg/L		08/01/17 08:56	08/01/17 15:54	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Arsenic	**0.0084**		0.0010		mg/L		08/01/17 08:56	08/01/17 16:57	1
Barium	**0.060**		0.0012		mg/L		08/01/17 08:56	08/01/17 16:57	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Chromium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 16:57	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 16:57	1
Nickel	ND		0.0030		mg/L		08/01/17 08:56	08/01/17 16:57	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 16:57	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 16:57	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 16:57	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 17:06	1
Chloride	**61**		0.90		mg/L			07/28/17 17:06	1
Sulfate	**33**		1.2		mg/L			07/28/17 17:06	1
Ammonia	**0.30**		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 14:19	1
Total Organic Carbon	**2.6**		1.0		mg/L			07/29/17 02:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**520**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-22
Date Collected: 07/26/17 10:15
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-11
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**210**		1.1		mg/L		08/01/17 08:56	08/01/17 15:58	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:58	1
Magnesium	**100**		1.1		mg/L		08/01/17 08:56	08/01/17 15:58	1
Manganese	**0.065**		0.020		mg/L		08/01/17 08:56	08/01/17 15:58	1
Potassium	**9.6**		3.3		mg/L		08/01/17 08:56	08/01/17 15:58	1
Sodium	**41**		2.0		mg/L		08/01/17 08:56	08/01/17 15:58	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Arsenic	**0.0027**		0.0010		mg/L		08/01/17 08:56	08/01/17 17:01	1
Barium	**0.044**		0.0012		mg/L		08/01/17 08:56	08/01/17 17:01	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Chromium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 17:01	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 17:01	1
Nickel	**0.0071**		0.0030		mg/L		08/01/17 08:56	08/01/17 17:01	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 17:01	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 17:01	1
Vanadium	**0.0062**		0.0040		mg/L		08/01/17 08:56	08/01/17 17:01	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 17:21	1
Chloride	**25**		0.90		mg/L			07/28/17 17:21	1
Sulfate	**67**		1.2		mg/L			07/28/17 17:21	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**4.6**	**F1**	0.75		mg/L			07/28/17 14:20	5
Total Organic Carbon	**2.9**		1.0		mg/L			07/29/17 02:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**830**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**830**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**980**		20		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-23
Date Collected: 07/26/17 11:35
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-12
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		08/01/17 13:53	08/02/17 06:06	1
Iron	ND		0.30		mg/L		08/01/17 13:53	08/02/17 06:06	1
Magnesium	**75**	**F1**	1.1		mg/L		08/01/17 13:53	08/02/17 06:06	1
Manganese	**0.46**		0.020		mg/L		08/01/17 13:53	08/02/17 06:06	1
Potassium	**8.0**		3.3		mg/L		08/01/17 13:53	08/02/17 06:06	1
Sodium	**35**		2.0		mg/L		08/01/17 13:53	08/02/17 06:06	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Arsenic	**0.0027**		0.0010		mg/L		08/01/17 13:53	08/02/17 13:15	1
Barium	**0.058**		0.0012		mg/L		08/01/17 13:53	08/02/17 13:15	1
Beryllium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Cadmium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Chromium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Cobalt	**0.0010**		0.00040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Copper	ND		0.0020		mg/L		08/01/17 13:53	08/02/17 13:15	1
Lead	ND		0.00080		mg/L		08/01/17 13:53	08/02/17 13:15	1
Nickel	**0.0051**		0.0030		mg/L		08/01/17 13:53	08/02/17 13:15	1
Selenium	ND		0.0080		mg/L		08/01/17 13:53	08/02/17 13:15	1
Silver	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Thallium	ND		0.0010		mg/L		08/01/17 13:53	08/02/17 13:15	1
Vanadium	ND		0.0040		mg/L		08/01/17 13:53	08/02/17 13:15	1
Zinc	ND		0.0070		mg/L		08/01/17 13:53	08/02/17 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 17:36	1
Chloride	**20**		0.90		mg/L			07/28/17 17:36	1
Sulfate	**62**		1.2		mg/L			07/28/17 17:36	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**8.2**		1.2		mg/L			07/28/17 14:23	8
Total Organic Carbon	**1.9**		1.0		mg/L			07/29/17 03:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**610**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**610**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**780**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-02
Date Collected: 07/26/17 12:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-13
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		1.1		mg/L		08/01/17 13:53	08/02/17 06:31	1
Iron	ND		0.30		mg/L		08/01/17 13:53	08/02/17 06:31	1
Magnesium	**43**		1.1		mg/L		08/01/17 13:53	08/02/17 06:31	1
Manganese	**0.22**		0.020		mg/L		08/01/17 13:53	08/02/17 06:31	1
Potassium	**6.5**		3.3		mg/L		08/01/17 13:53	08/02/17 06:31	1
Sodium	**26**		2.0		mg/L		08/01/17 13:53	08/02/17 06:31	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Arsenic	**0.0067**		0.0010		mg/L		08/01/17 13:53	08/02/17 13:19	1
Barium	**0.028**		0.0012		mg/L		08/01/17 13:53	08/02/17 13:19	1
Beryllium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Cadmium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Chromium	**0.00094**		0.00040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Cobalt	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Copper	ND		0.0020		mg/L		08/01/17 13:53	08/02/17 13:19	1
Lead	ND		0.00080		mg/L		08/01/17 13:53	08/02/17 13:19	1
Nickel	ND		0.0030		mg/L		08/01/17 13:53	08/02/17 13:19	1
Selenium	ND		0.0080		mg/L		08/01/17 13:53	08/02/17 13:19	1
Silver	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Thallium	ND		0.0010		mg/L		08/01/17 13:53	08/02/17 13:19	1
Vanadium	ND		0.0040		mg/L		08/01/17 13:53	08/02/17 13:19	1
Zinc	ND		0.0070		mg/L		08/01/17 13:53	08/02/17 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 17:50	1
Chloride	**31**		0.90		mg/L			07/28/17 17:50	1
Sulfate	**14**		1.2		mg/L			07/28/17 17:50	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:46	1
Total Organic Carbon	**1.5**		1.0		mg/L			07/29/17 04:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**430**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	**13**		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-01
Date Collected: 07/26/17 16:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-16
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**66**		1.1		mg/L		08/01/17 13:53	08/02/17 06:34	1
Iron	**0.57**		0.30		mg/L		08/01/17 13:53	08/02/17 06:34	1
Magnesium	**45**		1.1		mg/L		08/01/17 13:53	08/02/17 06:34	1
Manganese	**0.17**		0.020		mg/L		08/01/17 13:53	08/02/17 06:34	1
Potassium	**6.9**		3.3		mg/L		08/01/17 13:53	08/02/17 06:34	1
Sodium	**27**		2.0		mg/L		08/01/17 13:53	08/02/17 06:34	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Arsenic	**0.0068**		0.0010		mg/L		08/01/17 13:53	08/02/17 13:24	1
Barium	**0.025**		0.0012		mg/L		08/01/17 13:53	08/02/17 13:24	1
Beryllium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Cadmium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Chromium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Cobalt	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Copper	ND		0.0020		mg/L		08/01/17 13:53	08/02/17 13:24	1
Lead	ND		0.00080		mg/L		08/01/17 13:53	08/02/17 13:24	1
Nickel	ND		0.0030		mg/L		08/01/17 13:53	08/02/17 13:24	1
Selenium	ND		0.0080		mg/L		08/01/17 13:53	08/02/17 13:24	1
Silver	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Thallium	ND		0.0010		mg/L		08/01/17 13:53	08/02/17 13:24	1
Vanadium	ND		0.0040		mg/L		08/01/17 13:53	08/02/17 13:24	1
Zinc	**0.065**		0.0070		mg/L		08/01/17 13:53	08/02/17 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 18:05	1
Chloride	**20**		0.90		mg/L			07/28/17 18:05	1
Sulfate	**19**		1.2		mg/L			07/28/17 18:05	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:47	1
Total Organic Carbon	**1.4**		1.0		mg/L			07/29/17 04:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**390**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-27
Date Collected: 07/26/17 18:10
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-17
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**70**		1.1		mg/L		08/01/17 13:53	08/02/17 06:37	1
Iron	ND		0.30		mg/L		08/01/17 13:53	08/02/17 06:37	1
Magnesium	**61**		1.1		mg/L		08/01/17 13:53	08/02/17 06:37	1
Manganese	**0.20**		0.020		mg/L		08/01/17 13:53	08/02/17 06:37	1
Potassium	**8.0**		3.3		mg/L		08/01/17 13:53	08/02/17 06:37	1
Sodium	**35**		2.0		mg/L		08/01/17 13:53	08/02/17 06:37	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Arsenic	**0.011**		0.0010		mg/L		08/01/17 13:53	08/02/17 13:28	1
Barium	**0.044**		0.0012		mg/L		08/01/17 13:53	08/02/17 13:28	1
Beryllium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Cadmium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Chromium	**0.00040**		0.00040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Cobalt	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Copper	ND		0.0020		mg/L		08/01/17 13:53	08/02/17 13:28	1
Lead	ND		0.00080		mg/L		08/01/17 13:53	08/02/17 13:28	1
Nickel	ND		0.0030		mg/L		08/01/17 13:53	08/02/17 13:28	1
Selenium	ND		0.0080		mg/L		08/01/17 13:53	08/02/17 13:28	1
Silver	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Thallium	ND		0.0010		mg/L		08/01/17 13:53	08/02/17 13:28	1
Vanadium	ND		0.0040		mg/L		08/01/17 13:53	08/02/17 13:28	1
Zinc	ND		0.0070		mg/L		08/01/17 13:53	08/02/17 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 18:20	1
Chloride	**62**		0.90		mg/L			07/28/17 18:20	1
Sulfate	**25**		1.2		mg/L			07/28/17 18:20	1
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:49	1
Total Organic Carbon	**2.2**		1.0		mg/L			07/29/17 04:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**520**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Client Sample ID: 0717-28
Date Collected: 07/26/17 19:03
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-18
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		08/01/17 13:53	08/02/17 06:41	1
Iron	ND		0.30		mg/L		08/01/17 13:53	08/02/17 06:41	1
Magnesium	**48**		1.1		mg/L		08/01/17 13:53	08/02/17 06:41	1
Manganese	ND		0.020		mg/L		08/01/17 13:53	08/02/17 06:41	1
Potassium	**5.8**		3.3		mg/L		08/01/17 13:53	08/02/17 06:41	1
Sodium	**31**		2.0		mg/L		08/01/17 13:53	08/02/17 06:41	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Arsenic	**0.0060**		0.0010		mg/L		08/01/17 13:53	08/02/17 13:33	1
Barium	**0.024**		0.0012		mg/L		08/01/17 13:53	08/02/17 13:33	1
Beryllium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Cadmium	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Chromium	**0.0074**		0.00040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Cobalt	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Copper	ND		0.0020		mg/L		08/01/17 13:53	08/02/17 13:33	1
Lead	ND		0.00080		mg/L		08/01/17 13:53	08/02/17 13:33	1
Nickel	ND		0.0030		mg/L		08/01/17 13:53	08/02/17 13:33	1
Selenium	ND		0.0080		mg/L		08/01/17 13:53	08/02/17 13:33	1
Silver	ND		0.00040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Thallium	ND		0.0010		mg/L		08/01/17 13:53	08/02/17 13:33	1
Vanadium	**0.0049**		0.0040		mg/L		08/01/17 13:53	08/02/17 13:33	1
Zinc	ND		0.0070		mg/L		08/01/17 13:53	08/02/17 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 18:35	1
Chloride	**57**		0.90		mg/L			07/28/17 18:35	1
Sulfate	**38**		1.2		mg/L			07/28/17 18:35	1
Ammonia	**0.21**		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1
Nitrate Nitrite as N	**1.2**		0.15		mg/L			07/28/17 13:50	1
Total Organic Carbon	**2.1**		1.0		mg/L			07/29/17 05:04	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			07/29/17 11:22	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			07/29/17 11:22	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/29/17 11:22	1
Total Dissolved Solids	**490**		10		mg/L			07/28/17 15:16	1
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-252409/21-A
Matrix: Water
Analysis Batch: 252622

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		07/28/17 13:51	07/31/17 15:12	1
Iron	ND		0.30		mg/L		07/28/17 13:51	07/31/17 15:12	1
Magnesium	ND		1.1		mg/L		07/28/17 13:51	07/31/17 15:12	1
Manganese	ND		0.020		mg/L		07/28/17 13:51	07/31/17 15:12	1
Potassium	ND		3.3		mg/L		07/28/17 13:51	07/31/17 15:12	1
Sodium	ND	^	2.0		mg/L		07/28/17 13:51	07/31/17 15:12	1

Lab Sample ID: LCS 580-252409/22-A
Matrix: Water
Analysis Batch: 252622

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.5		mg/L		102	80 - 120
Iron	22.0	22.2		mg/L		101	80 - 120
Magnesium	20.0	20.0		mg/L		100	80 - 120
Manganese	1.00	1.03		mg/L		103	80 - 120
Potassium	20.0	20.3		mg/L		102	80 - 120
Sodium	20.0	20.7	^	mg/L		103	80 - 120

Lab Sample ID: LCSD 580-252409/23-A
Matrix: Water
Analysis Batch: 252622

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.7		mg/L		99	80 - 120	4	20
Iron	22.0	21.3		mg/L		97	80 - 120	4	20
Magnesium	20.0	19.3		mg/L		97	80 - 120	3	20
Manganese	1.00	0.989		mg/L		99	80 - 120	4	20
Potassium	20.0	19.6		mg/L		98	80 - 120	4	20
Sodium	20.0	20.0	^	mg/L		100	80 - 120	4	20

Lab Sample ID: MB 580-252632/22-A
Matrix: Water
Analysis Batch: 252724

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/01/17 08:56	08/01/17 15:01	1
Iron	ND		0.30		mg/L		08/01/17 08:56	08/01/17 15:01	1
Magnesium	ND		1.1		mg/L		08/01/17 08:56	08/01/17 15:01	1
Manganese	ND		0.020		mg/L		08/01/17 08:56	08/01/17 15:01	1
Potassium	ND		3.3		mg/L		08/01/17 08:56	08/01/17 15:01	1
Sodium	ND		2.0		mg/L		08/01/17 08:56	08/01/17 15:01	1

Lab Sample ID: LCS 580-252632/23-A
Matrix: Water
Analysis Batch: 252724

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.0		mg/L		100	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-252632/23-A
Matrix: Water
Analysis Batch: 252724

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	22.0	21.7		mg/L		99	80 - 120
Magnesium	20.0	19.8		mg/L		99	80 - 120
Manganese	1.00	1.00		mg/L		100	80 - 120
Potassium	20.0	20.6		mg/L		103	80 - 120
Sodium	20.0	20.7		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-252632/24-A
Matrix: Water
Analysis Batch: 252724

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.4		mg/L		102	80 - 120	2	20
Iron	22.0	22.0		mg/L		100	80 - 120	1	20
Magnesium	20.0	20.1		mg/L		100	80 - 120	1	20
Manganese	1.00	1.02		mg/L		102	80 - 120	2	20
Potassium	20.0	20.9		mg/L		105	80 - 120	1	20
Sodium	20.0	21.0		mg/L		105	80 - 120	1	20

Lab Sample ID: MB 580-252675/21-A
Matrix: Water
Analysis Batch: 252728

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/01/17 13:54	08/02/17 05:57	1
Iron	ND		0.30		mg/L		08/01/17 13:54	08/02/17 05:57	1
Magnesium	ND		1.1		mg/L		08/01/17 13:54	08/02/17 05:57	1
Manganese	ND		0.020		mg/L		08/01/17 13:54	08/02/17 05:57	1
Potassium	ND		3.3		mg/L		08/01/17 13:54	08/02/17 05:57	1
Sodium	ND		2.0		mg/L		08/01/17 13:54	08/02/17 05:57	1

Lab Sample ID: LCS 580-252675/22-A
Matrix: Water
Analysis Batch: 252728

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.8		mg/L		104	80 - 120
Iron	22.0	22.9		mg/L		104	80 - 120
Magnesium	20.0	21.1		mg/L		105	80 - 120
Manganese	1.00	1.06		mg/L		106	80 - 120
Potassium	20.0	20.5		mg/L		102	80 - 120
Sodium	20.0	20.9		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-252675/23-A
Matrix: Water
Analysis Batch: 252728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.6		mg/L		103	80 - 120	1	20
Iron	22.0	22.6		mg/L		103	80 - 120	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-252675/23-A
Matrix: Water
Analysis Batch: 252728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium			20.0	20.7		mg/L		103	80 - 120	2	20
Manganese			1.00	1.05		mg/L		105	80 - 120	1	20
Potassium			20.0	20.2		mg/L		101	80 - 120	1	20
Sodium			20.0	20.6		mg/L		103	80 - 120	1	20

Lab Sample ID: 580-70201-1 MS
Matrix: Water
Analysis Batch: 252622

Client Sample ID: 0717-14
Prep Type: Dissolved
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	54		20.0	77.6		mg/L		116	75 - 125
Iron	ND		22.0	22.4		mg/L		101	75 - 125
Magnesium	67		20.0	91.0		mg/L		119	75 - 125
Manganese	0.15		1.00	1.19		mg/L		104	75 - 125
Potassium	9.7		20.0	30.9		mg/L		106	75 - 125
Sodium	43	^	20.0	66.0	^	mg/L		116	75 - 125

Lab Sample ID: 580-70201-1 MSD
Matrix: Water
Analysis Batch: 252622

Client Sample ID: 0717-14
Prep Type: Dissolved
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	54		20.0	73.0		mg/L		93	75 - 125	6	20
Iron	ND		22.0	20.9		mg/L		94	75 - 125	7	20
Magnesium	67		20.0	86.0		mg/L		94	75 - 125	6	20
Manganese	0.15		1.00	1.11		mg/L		96	75 - 125	6	20
Potassium	9.7		20.0	29.0		mg/L		97	75 - 125	7	20
Sodium	43	^	20.0	61.9	^	mg/L		96	75 - 125	6	20

Lab Sample ID: 580-70201-1 DU
Matrix: Water
Analysis Batch: 252622

Client Sample ID: 0717-14
Prep Type: Dissolved
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	54		54.3		mg/L		0.2	20
Iron	ND		ND		mg/L		NC	20
Magnesium	67		67.4		mg/L		0.2	20
Manganese	0.15		0.148		mg/L		0.8	20
Potassium	9.7		9.65		mg/L		0.2	20
Sodium	43	^	42.6		mg/L		0.2	20

Lab Sample ID: 580-70201-4 MS
Matrix: Water
Analysis Batch: 252724

Client Sample ID: 0717-04
Prep Type: Dissolved
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	40		20.0	61.7		mg/L		108	75 - 125
Iron	ND		22.0	22.4		mg/L		102	75 - 125
Magnesium	27		20.0	48.7		mg/L		106	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-70201-4 MS
Matrix: Water
Analysis Batch: 252724

Client Sample ID: 0717-04
Prep Type: Dissolved
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.077		1.00	1.11		mg/L		103	75 - 125
Potassium	11		20.0	32.2		mg/L		107	75 - 125
Sodium	34		20.0	56.8		mg/L		112	75 - 125

Lab Sample ID: 580-70201-4 MSD
Matrix: Water
Analysis Batch: 252724

Client Sample ID: 0717-04
Prep Type: Dissolved
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	40		20.0	63.4		mg/L		116	75 - 125	3	20
Iron	ND		22.0	22.7		mg/L		103	75 - 125	2	20
Magnesium	27		20.0	49.6		mg/L		111	75 - 125	2	20
Manganese	0.077		1.00	1.13		mg/L		106	75 - 125	2	20
Potassium	11		20.0	33.1		mg/L		112	75 - 125	3	20
Sodium	34		20.0	58.2		mg/L		119	75 - 125	2	20

Lab Sample ID: 580-70201-4 DU
Matrix: Water
Analysis Batch: 252724

Client Sample ID: 0717-04
Prep Type: Dissolved
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	40		43.9		mg/L		9	20
Iron	ND		ND		mg/L		NC	20
Magnesium	27		30.0		mg/L		9	20
Manganese	0.077		0.0838		mg/L		8	20
Potassium	11		11.7		mg/L		9	20
Sodium	34		37.6		mg/L		9	20

Lab Sample ID: 580-70201-12 MS
Matrix: Water
Analysis Batch: 252728

Client Sample ID: 0717-23
Prep Type: Dissolved
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	180		20.0	192	4	mg/L		58	75 - 125
Iron	ND		22.0	22.9		mg/L		104	75 - 125
Magnesium	75	F1	20.0	91.7		mg/L		84	75 - 125
Manganese	0.46		1.00	1.49		mg/L		104	75 - 125
Potassium	8.0		20.0	28.9		mg/L		104	75 - 125
Sodium	35		20.0	55.2		mg/L		99	75 - 125

Lab Sample ID: 580-70201-12 MSD
Matrix: Water
Analysis Batch: 252728

Client Sample ID: 0717-23
Prep Type: Dissolved
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	180		20.0	184	4	mg/L		15	75 - 125	5	20
Iron	ND		22.0	21.5		mg/L		98	75 - 125	6	20
Magnesium	75	F1	20.0	87.1	F1	mg/L		61	75 - 125	5	20
Manganese	0.46		1.00	1.41		mg/L		96	75 - 125	5	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-70201-12 MSD
Matrix: Water
Analysis Batch: 252728

Client Sample ID: 0717-23
Prep Type: Dissolved
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	8.0		20.0	27.4		mg/L		97	75 - 125	5	20
Sodium	35		20.0	52.5		mg/L		85	75 - 125	5	20

Lab Sample ID: 580-70201-12 DU
Matrix: Water
Analysis Batch: 252728

Client Sample ID: 0717-23
Prep Type: Dissolved
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	180		166		mg/L		8	20
Iron	ND		ND		mg/L		NC	20
Magnesium	75	F1	68.9		mg/L		8	20
Manganese	0.46		0.420		mg/L		8	20
Potassium	8.0		7.45		mg/L		7	20
Sodium	35		32.8		mg/L		8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-252409/21-A
Matrix: Water
Analysis Batch: 252630

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Arsenic	ND		0.0010		mg/L		07/28/17 13:51	07/31/17 08:54	1
Barium	ND		0.0012		mg/L		07/28/17 13:51	07/31/17 08:54	1
Beryllium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Cadmium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Chromium	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Cobalt	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Copper	ND		0.0020		mg/L		07/28/17 13:51	07/31/17 08:54	1
Lead	ND		0.00080		mg/L		07/28/17 13:51	07/31/17 08:54	1
Nickel	ND		0.0030		mg/L		07/28/17 13:51	07/31/17 08:54	1
Selenium	ND		0.0080		mg/L		07/28/17 13:51	07/31/17 08:54	1
Silver	ND		0.00040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Thallium	ND		0.0010		mg/L		07/28/17 13:51	07/31/17 08:54	1
Vanadium	ND		0.0040		mg/L		07/28/17 13:51	07/31/17 08:54	1
Zinc	ND		0.0070		mg/L		07/28/17 13:51	07/31/17 08:54	1

Lab Sample ID: LCS 580-252409/22-A
Matrix: Water
Analysis Batch: 252630

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.68		mg/L		89	80 - 120
Arsenic	4.00	3.68		mg/L		92	80 - 120
Barium	4.00	3.60		mg/L		90	80 - 120
Beryllium	0.100	0.0927		mg/L		93	80 - 120
Cadmium	0.100	0.0921		mg/L		92	80 - 120
Chromium	0.400	0.362		mg/L		91	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-252409/22-A
Matrix: Water
Analysis Batch: 252630

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	1.00	0.902		mg/L		90	80 - 120
Copper	0.500	0.464		mg/L		93	80 - 120
Lead	1.00	0.899		mg/L		90	80 - 120
Nickel	1.00	0.928		mg/L		93	80 - 120
Selenium	4.00	3.71		mg/L		93	80 - 120
Silver	0.600	0.564		mg/L		94	80 - 120
Thallium	4.00	3.51		mg/L		88	80 - 120
Vanadium	1.00	0.906		mg/L		91	80 - 120
Zinc	4.00	3.51		mg/L		88	80 - 120

Lab Sample ID: LCSD 580-252409/23-A
Matrix: Water
Analysis Batch: 252630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.68		mg/L		89	80 - 120	0	20
Arsenic	4.00	3.70		mg/L		92	80 - 120	0	20
Barium	4.00	3.59		mg/L		90	80 - 120	0	20
Beryllium	0.100	0.0917		mg/L		92	80 - 120	1	20
Cadmium	0.100	0.0901		mg/L		90	80 - 120	2	20
Chromium	0.400	0.362		mg/L		90	80 - 120	0	20
Cobalt	1.00	0.901		mg/L		90	80 - 120	0	20
Copper	0.500	0.464		mg/L		93	80 - 120	0	20
Lead	1.00	0.882		mg/L		88	80 - 120	2	20
Nickel	1.00	0.917		mg/L		92	80 - 120	1	20
Selenium	4.00	3.73		mg/L		93	80 - 120	0	20
Silver	0.600	0.554		mg/L		92	80 - 120	2	20
Thallium	4.00	3.45		mg/L		86	80 - 120	2	20
Vanadium	1.00	0.908		mg/L		91	80 - 120	0	20
Zinc	4.00	3.49		mg/L		87	80 - 120	1	20

Lab Sample ID: 580-70201-1 MS
Matrix: Water
Analysis Batch: 252630

Client Sample ID: 0717-14
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.91		mg/L		97	80 - 120
Arsenic	0.0072		4.00	3.94		mg/L		98	80 - 120
Barium	0.055		4.00	3.88		mg/L		96	80 - 120
Beryllium	ND		0.100	0.100		mg/L		100	80 - 120
Cadmium	ND		0.100	0.0994		mg/L		99	80 - 120
Chromium	ND		0.400	0.380		mg/L		95	80 - 120
Cobalt	ND		1.00	0.963		mg/L		96	80 - 120
Copper	ND		0.500	0.487		mg/L		97	80 - 120
Lead	ND		1.00	0.961		mg/L		96	80 - 120
Nickel	ND		1.00	0.974		mg/L		97	80 - 120
Selenium	ND		4.00	3.96		mg/L		99	80 - 120
Silver	ND		0.600	0.589		mg/L		98	80 - 120
Thallium	ND		4.00	3.80		mg/L		95	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70201-1 MS
Matrix: Water
Analysis Batch: 252630

Client Sample ID: 0717-14
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	ND		1.00	0.951		mg/L		95	80 - 120
Zinc	ND		4.00	3.79		mg/L		95	80 - 120

Lab Sample ID: 580-70201-1 MSD
Matrix: Water
Analysis Batch: 252630

Client Sample ID: 0717-14
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.78		mg/L		93	80 - 120	5	20
Arsenic	0.0072		4.00	3.74		mg/L		93	80 - 120	5	20
Barium	0.055		4.00	3.73		mg/L		92	80 - 120	4	20
Beryllium	ND		0.100	0.0954		mg/L		95	80 - 120	5	20
Cadmium	ND		0.100	0.0914		mg/L		91	80 - 120	8	20
Chromium	ND		0.400	0.363		mg/L		91	80 - 120	5	20
Cobalt	ND		1.00	0.916		mg/L		92	80 - 120	5	20
Copper	ND		0.500	0.459		mg/L		92	80 - 120	6	20
Lead	ND		1.00	0.918		mg/L		92	80 - 120	5	20
Nickel	ND		1.00	0.928		mg/L		93	80 - 120	5	20
Selenium	ND		4.00	3.77		mg/L		94	80 - 120	5	20
Silver	ND		0.600	0.565		mg/L		94	80 - 120	4	20
Thallium	ND		4.00	3.63		mg/L		91	80 - 120	5	20
Vanadium	ND		1.00	0.908		mg/L		91	80 - 120	5	20
Zinc	ND		4.00	3.65		mg/L		91	80 - 120	4	20

Lab Sample ID: 580-70201-1 DU
Matrix: Water
Analysis Batch: 252630

Client Sample ID: 0717-14
Prep Type: Total Recoverable
Prep Batch: 252409

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0072		0.00746		mg/L		4	20
Barium	0.055		0.0540		mg/L		3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-252632/22-A
Matrix: Water
Analysis Batch: 252725

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Arsenic	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 15:37	1
Barium	ND		0.0012		mg/L		08/01/17 08:56	08/01/17 15:37	1
Beryllium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Cadmium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Chromium	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Cobalt	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Copper	ND		0.0020		mg/L		08/01/17 08:56	08/01/17 15:37	1
Lead	ND		0.00080		mg/L		08/01/17 08:56	08/01/17 15:37	1
Nickel	ND		0.0030		mg/L		08/01/17 08:56	08/01/17 15:37	1
Selenium	ND		0.0080		mg/L		08/01/17 08:56	08/01/17 15:37	1
Silver	ND		0.00040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Thallium	ND		0.0010		mg/L		08/01/17 08:56	08/01/17 15:37	1
Vanadium	ND		0.0040		mg/L		08/01/17 08:56	08/01/17 15:37	1
Zinc	ND		0.0070		mg/L		08/01/17 08:56	08/01/17 15:37	1

Lab Sample ID: LCS 580-252632/23-A
Matrix: Water
Analysis Batch: 252725

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.99		mg/L		100	80 - 120
Arsenic	4.00	4.05		mg/L		101	80 - 120
Barium	4.00	4.04		mg/L		101	80 - 120
Beryllium	0.100	0.103		mg/L		103	80 - 120
Cadmium	0.100	0.102		mg/L		102	80 - 120
Chromium	0.400	0.386		mg/L		97	80 - 120
Cobalt	1.00	0.943		mg/L		94	80 - 120
Copper	0.500	0.494		mg/L		99	80 - 120
Lead	1.00	0.952		mg/L		95	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	4.00	4.04		mg/L		101	80 - 120
Silver	0.600	0.612		mg/L		102	80 - 120
Thallium	4.00	3.85		mg/L		96	80 - 120
Vanadium	1.00	0.959		mg/L		96	80 - 120
Zinc	4.00	4.00		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-252632/24-A
Matrix: Water
Analysis Batch: 252725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.99		mg/L		100	80 - 120	0	20
Arsenic	4.00	4.09		mg/L		102	80 - 120	1	20
Barium	4.00	4.02		mg/L		100	80 - 120	1	20
Beryllium	0.100	0.103		mg/L		103	80 - 120	1	20
Cadmium	0.100	0.105		mg/L		105	80 - 120	3	20
Chromium	0.400	0.386		mg/L		96	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-252632/24-A
Matrix: Water
Analysis Batch: 252725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	0.959		mg/L		96	80 - 120	2	20
Copper			0.500	0.503		mg/L		101	80 - 120	2	20
Lead			1.00	0.957		mg/L		96	80 - 120	1	20
Nickel			1.00	1.02		mg/L		102	80 - 120	1	20
Selenium			4.00	4.08		mg/L		102	80 - 120	1	20
Silver			0.600	0.620		mg/L		103	80 - 120	1	20
Thallium			4.00	3.84		mg/L		96	80 - 120	0	20
Vanadium			1.00	0.961		mg/L		96	80 - 120	0	20
Zinc			4.00	4.02		mg/L		101	80 - 120	1	20

Lab Sample ID: 580-70201-4 MS
Matrix: Water
Analysis Batch: 252725

Client Sample ID: 0717-04
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.15		mg/L		105	80 - 120
Arsenic	0.015		4.00	4.25		mg/L		106	80 - 120
Barium	0.032		4.00	4.19		mg/L		104	80 - 120
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120
Cadmium	ND		0.100	0.105		mg/L		105	80 - 120
Chromium	ND		0.400	0.404		mg/L		101	80 - 120
Cobalt	ND		1.00	0.994		mg/L		99	80 - 120
Copper	ND		0.500	0.506		mg/L		101	80 - 120
Lead	ND		1.00	0.992		mg/L		99	80 - 120
Nickel	ND		1.00	1.04		mg/L		104	80 - 120
Selenium	ND		4.00	4.32		mg/L		108	80 - 120
Silver	ND		0.600	0.614		mg/L		102	80 - 120
Thallium	ND		4.00	3.98		mg/L		99	80 - 120
Vanadium	ND		1.00	0.999		mg/L		100	80 - 120
Zinc	ND		4.00	4.21		mg/L		105	80 - 120

Lab Sample ID: 580-70201-4 MSD
Matrix: Water
Analysis Batch: 252725

Client Sample ID: 0717-04
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.08		mg/L		103	80 - 120	2	20
Arsenic	0.015		4.00	4.22		mg/L		105	80 - 120	1	20
Barium	0.032		4.00	4.07		mg/L		101	80 - 120	3	20
Beryllium	ND		0.100	0.103		mg/L		103	80 - 120	1	20
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120	1	20
Chromium	ND		0.400	0.392		mg/L		98	80 - 120	3	20
Cobalt	ND		1.00	0.980		mg/L		98	80 - 120	1	20
Copper	ND		0.500	0.501		mg/L		100	80 - 120	1	20
Lead	ND		1.00	0.989		mg/L		99	80 - 120	0	20
Nickel	ND		1.00	1.03		mg/L		103	80 - 120	1	20
Selenium	ND		4.00	4.25		mg/L		106	80 - 120	2	20
Silver	ND		0.600	0.606		mg/L		101	80 - 120	1	20
Thallium	ND		4.00	3.99		mg/L		100	80 - 120	0	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70201-4 MSD
Matrix: Water
Analysis Batch: 252725

Client Sample ID: 0717-04
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	0.967		mg/L		97	80 - 120	3	20
Zinc	ND		4.00	4.15		mg/L		104	80 - 120	1	20

Lab Sample ID: 580-70201-4 DU
Matrix: Water
Analysis Batch: 252725

Client Sample ID: 0717-04
Prep Type: Total Recoverable
Prep Batch: 252632

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.015		0.0149		mg/L		2	20
Barium	0.032		0.0324		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-252675/21-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Arsenic	ND		0.0010		mg/L		08/01/17 13:54	08/02/17 12:21	1
Barium	ND		0.0012		mg/L		08/01/17 13:54	08/02/17 12:21	1
Beryllium	ND		0.00040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Cadmium	ND		0.00040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Chromium	ND		0.00040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Cobalt	ND		0.00040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Copper	ND		0.0020		mg/L		08/01/17 13:54	08/02/17 12:21	1
Lead	ND		0.00080		mg/L		08/01/17 13:54	08/02/17 12:21	1
Nickel	ND		0.0030		mg/L		08/01/17 13:54	08/02/17 12:21	1
Selenium	ND		0.0080		mg/L		08/01/17 13:54	08/02/17 12:21	1
Silver	ND		0.00040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Thallium	ND		0.0010		mg/L		08/01/17 13:54	08/02/17 12:21	1
Vanadium	ND		0.0040		mg/L		08/01/17 13:54	08/02/17 12:21	1
Zinc	ND		0.0070		mg/L		08/01/17 13:54	08/02/17 12:21	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-252675/22-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.12		mg/L		104	80 - 120
Arsenic	4.00	4.23		mg/L		106	80 - 120
Barium	4.00	4.21		mg/L		105	80 - 120
Beryllium	0.100	0.107		mg/L		107	80 - 120
Cadmium	0.100	0.109		mg/L		109	80 - 120
Chromium	0.400	0.403		mg/L		101	80 - 120
Cobalt	1.00	0.971		mg/L		97	80 - 120
Copper	0.500	0.513		mg/L		103	80 - 120
Lead	1.00	0.999		mg/L		100	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	4.00	4.21		mg/L		105	80 - 120
Silver	0.600	0.639		mg/L		106	80 - 120
Thallium	4.00	4.01		mg/L		100	80 - 120
Vanadium	1.00	1.01		mg/L		101	80 - 120
Zinc	4.00	4.18		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-252675/23-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.12		mg/L		104	80 - 120	0	20
Arsenic	4.00	4.17		mg/L		104	80 - 120	1	20
Barium	4.00	4.17		mg/L		104	80 - 120	1	20
Beryllium	0.100	0.108		mg/L		108	80 - 120	1	20
Cadmium	0.100	0.107		mg/L		107	80 - 120	1	20
Chromium	0.400	0.403		mg/L		101	80 - 120	0	20
Cobalt	1.00	0.965		mg/L		96	80 - 120	1	20
Copper	0.500	0.509		mg/L		102	80 - 120	1	20
Lead	1.00	0.990		mg/L		99	80 - 120	1	20
Nickel	1.00	1.03		mg/L		103	80 - 120	1	20
Selenium	4.00	4.12		mg/L		103	80 - 120	2	20
Silver	0.600	0.630		mg/L		105	80 - 120	1	20
Thallium	4.00	3.93		mg/L		98	80 - 120	2	20
Vanadium	1.00	1.01		mg/L		101	80 - 120	0	20
Zinc	4.00	4.13		mg/L		103	80 - 120	1	20

Lab Sample ID: 580-70201-12 MS
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-23
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00044		3.00	3.14		mg/L		105	80 - 120
Arsenic	0.0019		4.00	4.10		mg/L		102	80 - 120
Barium	0.057		4.00	4.19		mg/L		103	80 - 120
Beryllium	ND		0.100	0.102		mg/L		102	80 - 120
Cadmium	ND		0.100	0.103		mg/L		103	80 - 120
Chromium	ND		0.400	0.391		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70201-12 MS
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-23
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.00093		1.00	0.949		mg/L		95	80 - 120
Copper	ND		0.500	0.485		mg/L		97	80 - 120
Lead	ND		1.00	0.980		mg/L		98	80 - 120
Nickel	0.0049		1.00	1.01		mg/L		100	80 - 120
Selenium	ND		4.00	4.10		mg/L		103	80 - 120
Silver	ND		0.600	0.604		mg/L		101	80 - 120
Thallium	ND		4.00	3.97		mg/L		99	80 - 120
Vanadium	ND		1.00	0.982		mg/L		98	80 - 120
Zinc	ND		4.00	4.02		mg/L		100	80 - 120

Lab Sample ID: 580-70201-12 MSD
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-23
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00044		3.00	3.12		mg/L		104	80 - 120	1	20
Arsenic	0.0019		4.00	4.09		mg/L		102	80 - 120	0	20
Barium	0.057		4.00	4.17		mg/L		103	80 - 120	1	20
Beryllium	ND		0.100	0.101		mg/L		101	80 - 120	1	20
Cadmium	ND		0.100	0.105		mg/L		105	80 - 120	2	20
Chromium	ND		0.400	0.388		mg/L		97	80 - 120	1	20
Cobalt	0.00093		1.00	0.935		mg/L		93	80 - 120	1	20
Copper	ND		0.500	0.478		mg/L		95	80 - 120	1	20
Lead	ND		1.00	0.982		mg/L		98	80 - 120	0	20
Nickel	0.0049		1.00	0.996		mg/L		99	80 - 120	1	20
Selenium	ND		4.00	4.08		mg/L		102	80 - 120	1	20
Silver	ND		0.600	0.599		mg/L		100	80 - 120	1	20
Thallium	ND		4.00	3.98		mg/L		99	80 - 120	0	20
Vanadium	ND		1.00	0.973		mg/L		97	80 - 120	1	20
Zinc	ND		4.00	4.00		mg/L		100	80 - 120	1	20

Lab Sample ID: 580-70201-12 DU
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-23
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.00044		ND		mg/L		NC	20
Arsenic	0.0019		0.00194		mg/L		0	20
Barium	0.057		0.0565		mg/L		0.2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	0.00093		0.000942		mg/L		2	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0049		0.00478		mg/L		3	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70201-12 DU
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-23
Prep Type: Total Recoverable
Prep Batch: 252675

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-252517/3
Matrix: Water
Analysis Batch: 252517

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/28/17 09:59	1
Chloride	ND		0.90		mg/L			07/28/17 09:59	1
Sulfate	ND		1.2		mg/L			07/28/17 09:59	1

Lab Sample ID: LCS 580-252517/4
Matrix: Water
Analysis Batch: 252517

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.77		mg/L		95	90 - 110
Chloride	50.0	47.7		mg/L		95	90 - 110
Sulfate	50.0	47.8		mg/L		96	90 - 110

Lab Sample ID: 580-70201-7 MS
Matrix: Water
Analysis Batch: 252517

Client Sample ID: 0717-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	4.96		mg/L		99	90 - 110
Chloride	3.9		50.0	54.2		mg/L		101	90 - 110
Sulfate	140	F1	50.0	183	F1	mg/L		76	90 - 110

Lab Sample ID: 580-70201-7 MSD
Matrix: Water
Analysis Batch: 252517

Client Sample ID: 0717-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	4.98		mg/L		100	90 - 110	0	15
Chloride	3.9		50.0	54.2		mg/L		101	90 - 110	0	15
Sulfate	140	F1	50.0	183	F1	mg/L		76	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-252901/1-A
Matrix: Water
Analysis Batch: 253004

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/03/17 11:00	08/04/17 15:46	1

Lab Sample ID: LCS 580-252901/2-A
Matrix: Water
Analysis Batch: 253004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252901

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	1.88		mg/L		94	90 - 110		

Lab Sample ID: 580-70201-1 MS
Matrix: Water
Analysis Batch: 253004

Client Sample ID: 0717-14
Prep Type: Total/NA
Prep Batch: 252901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	0.20		2.00	2.40		mg/L		110	90 - 110		

Lab Sample ID: 580-70201-1 MSD
Matrix: Water
Analysis Batch: 253004

Client Sample ID: 0717-14
Prep Type: Total/NA
Prep Batch: 252901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.20		2.00	2.38		mg/L		109	90 - 110	1	20

Lab Sample ID: 580-70201-1 DU
Matrix: Water
Analysis Batch: 253004

Client Sample ID: 0717-14
Prep Type: Total/NA
Prep Batch: 252901

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.20		0.213		mg/L		7	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-252419/12
Matrix: Water
Analysis Batch: 252419

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			07/28/17 13:18	1

Lab Sample ID: LCS 580-252419/13
Matrix: Water
Analysis Batch: 252419

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	0.955		mg/L		96	90 - 110		

Lab Sample ID: LCSD 580-252419/14
Matrix: Water
Analysis Batch: 252419

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.968		mg/L		97	90 - 110	1	20

Lab Sample ID: 580-70201-1 MS
Matrix: Water
Analysis Batch: 252419

Client Sample ID: 0717-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	ND		0.500	0.453		mg/L		91	90 - 110		

Lab Sample ID: 580-70201-1 MSD
Matrix: Water
Analysis Batch: 252419

Client Sample ID: 0717-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		0.500	0.450		mg/L		90	90 - 110	1	20

Lab Sample ID: 580-70201-11 MS
Matrix: Water
Analysis Batch: 252419

Client Sample ID: 0717-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	4.6	F1	2.50	5.33	F1	mg/L		29	90 - 110		

Lab Sample ID: 580-70201-11 MSD
Matrix: Water
Analysis Batch: 252419

Client Sample ID: 0717-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	4.6	F1	2.50	5.20	F1	mg/L		24	90 - 110	2	20

Lab Sample ID: 580-70201-1 DU
Matrix: Water
Analysis Batch: 252419

Client Sample ID: 0717-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate Nitrite as N	ND			ND		mg/L				NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-252549/2
Matrix: Water
Analysis Batch: 252549

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity			100	95.6		mg/L		96	85 - 115		

Lab Sample ID: 580-70201-1 DU
Matrix: Water
Analysis Batch: 252549

Client Sample ID: 0717-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	380			393		mg/L				3	17
Bicarbonate Alkalinity as CaCO3	380			393		mg/L				3	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20
Hydroxide Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-252447/1
Matrix: Water
Analysis Batch: 252447

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			07/28/17 15:16	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-252447/2
Matrix: Water
Analysis Batch: 252447

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1050		mg/L		105	80 - 120		

Lab Sample ID: 580-70201-1 DU
Matrix: Water
Analysis Batch: 252447

Client Sample ID: 0717-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	530			529		mg/L				0.4	20

Lab Sample ID: 580-70201-10 DU
Matrix: Water
Analysis Batch: 252447

Client Sample ID: 0717-31
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	520			535		mg/L				2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-252412/3-A
Matrix: Water
Analysis Batch: 252414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252412

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		07/28/17 13:30	07/28/17 13:30	1

Lab Sample ID: LCS 580-252412/4-A
Matrix: Water
Analysis Batch: 252414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252412

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	72.9		mg/L		97	80 - 120		

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-252527/22
Matrix: Water
Analysis Batch: 252527

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/29/17 00:21	1

Lab Sample ID: MB 580-252527/3
Matrix: Water
Analysis Batch: 252527

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/28/17 18:22	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-252527/23
Matrix: Water
Analysis Batch: 252527

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	8.68		mg/L		87	85 - 115

Lab Sample ID: LCS 580-252527/4
Matrix: Water
Analysis Batch: 252527

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	8.56		mg/L		86	85 - 115

Lab Sample ID: 580-70201-8 MS
Matrix: Water
Analysis Batch: 252527

Client Sample ID: 0717-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.0		10.0	11.1		mg/L		91	85 - 115

Lab Sample ID: 580-70201-8 MSD
Matrix: Water
Analysis Batch: 252527

Client Sample ID: 0717-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.0		10.0	11.6		mg/L		96	85 - 115	4	20

Lab Sample ID: 580-70201-8 DU
Matrix: Water
Analysis Batch: 252527

Client Sample ID: 0717-30
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.0		2.02		mg/L		1	20

Client Sample ID: 0717-14

Date Collected: 07/25/17 10:08
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252622	07/31/17 15:21	HJM	TAL SEA
Total Recoverable	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252630	07/31/17 09:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 13:40	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:22	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 20:54	J1Y	TAL SEA

Client Sample ID: 0717-15

Date Collected: 07/25/17 11:47
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252622	07/31/17 15:46	HJM	TAL SEA
Total Recoverable	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252630	07/31/17 09:57	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 13:55	MMM	TAL SEA
Total/NA	Analysis	300.0		100	252517	07/28/17 14:10	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:26	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 21:13	J1Y	TAL SEA

Client Sample ID: 0717-16

Date Collected: 07/25/17 12:47
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252622	07/31/17 15:50	HJM	TAL SEA
Dissolved	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Client Sample ID: 0717-16
Date Collected: 07/25/17 12:47
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010C		1	252659	08/01/17 09:28	HJM	TAL SEA
Total Recoverable	Prep	3005A			252409	07/28/17 13:51	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252630	07/31/17 10:01	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 14:24	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:27	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 22:10	J1Y	TAL SEA

Client Sample ID: 0717-04
Date Collected: 07/25/17 14:00
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:13	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:30	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 14:39	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:29	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 22:29	J1Y	TAL SEA

Client Sample ID: 0717-03
Date Collected: 07/25/17 15:18
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:38	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:34	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 14:54	MMM	TAL SEA

Client Sample ID: 0717-03

Date Collected: 07/25/17 15:18
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:32	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 22:47	J1Y	TAL SEA

Client Sample ID: 0717-19

Date Collected: 07/25/17 16:29
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:41	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:39	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 15:09	MMM	TAL SEA
Total/NA	Analysis	300.0		10	252517	07/28/17 19:33	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		5	252419	07/28/17 14:09	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 23:06	J1Y	TAL SEA

Client Sample ID: 0717-32

Date Collected: 07/25/17 16:40
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:44	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:43	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 15:23	MMM	TAL SEA
Total/NA	Analysis	300.0		10	252517	07/28/17 19:48	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Client Sample ID: 0717-32
Date Collected: 07/25/17 16:40
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		5	252419	07/28/17 14:15	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/28/17 23:26	J1Y	TAL SEA

Client Sample ID: 0717-30
Date Collected: 07/25/17 17:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:48	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 16:37	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 14:16	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 01:00	J1Y	TAL SEA

Client Sample ID: 0717-29
Date Collected: 07/25/17 19:00
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:51	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 16:52	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		5	252419	07/28/17 14:17	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Client Sample ID: 0717-29
Date Collected: 07/25/17 19:00
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 02:17	J1Y	TAL SEA

Client Sample ID: 0717-31
Date Collected: 07/25/17 10:15
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:54	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 16:57	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 17:06	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 14:19	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 02:35	J1Y	TAL SEA

Client Sample ID: 0717-22
Date Collected: 07/26/17 10:15
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252724	08/01/17 15:58	HJM	TAL SEA
Total Recoverable	Prep	3005A			252632	08/01/17 08:56	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252725	08/01/17 17:01	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 17:21	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		5	252419	07/28/17 14:20	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 02:54	J1Y	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Client Sample ID: 0717-23
Date Collected: 07/26/17 11:35
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252728	08/02/17 06:06	HJM	TAL SEA
Total Recoverable	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 13:15	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 17:36	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		8	252419	07/28/17 14:23	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 03:12	J1Y	TAL SEA

Client Sample ID: 0717-02
Date Collected: 07/26/17 12:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252728	08/02/17 06:31	HJM	TAL SEA
Total Recoverable	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 13:19	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 17:50	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:46	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 04:08	J1Y	TAL SEA

Client Sample ID: 0717-01
Date Collected: 07/26/17 16:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252728	08/02/17 06:34	HJM	TAL SEA
Total Recoverable	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 13:24	FCW	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Client Sample ID: 0717-01
Date Collected: 07/26/17 16:50
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	252517	07/28/17 18:05	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:47	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 04:27	J1Y	TAL SEA

Client Sample ID: 0717-27
Date Collected: 07/26/17 18:10
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252728	08/02/17 06:37	HJM	TAL SEA
Total Recoverable	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 13:28	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 18:20	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:49	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 04:45	J1Y	TAL SEA

Client Sample ID: 0717-28
Date Collected: 07/26/17 19:03
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252728	08/02/17 06:41	HJM	TAL SEA
Total Recoverable	Prep	3005A			252675	08/01/17 13:53	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 13:33	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252517	07/28/17 18:35	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			252901	08/03/17 11:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253004	08/04/17 15:46	SPP	TAL SEA
Total/NA	Analysis	353.2		1	252419	07/28/17 13:50	MMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Client Sample ID: 0717-28
Date Collected: 07/26/17 19:03
Date Received: 07/27/17 15:55

Lab Sample ID: 580-70201-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	252549	07/29/17 11:22	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252447	07/28/17 15:16	EMM	TAL SEA
Total/NA	Prep	SM 5220			252412	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252414	07/28/17 13:30	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252527	07/29/17 05:04	J1Y	TAL SEA

Laboratory References:

SC0053 = OnSite Environmental Inc, 14648 NE 95th Street, Redmond, WA 98052

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70201-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-70201-1	0717-14	Water	07/25/17 10:08	07/27/17 15:55
580-70201-2	0717-15	Water	07/25/17 11:47	07/27/17 15:55
580-70201-3	0717-16	Water	07/25/17 12:47	07/27/17 15:55
580-70201-4	0717-04	Water	07/25/17 14:00	07/27/17 15:55
580-70201-5	0717-03	Water	07/25/17 15:18	07/27/17 15:55
580-70201-6	0717-19	Water	07/25/17 16:29	07/27/17 15:55
580-70201-7	0717-32	Water	07/25/17 16:40	07/27/17 15:55
580-70201-8	0717-30	Water	07/25/17 17:50	07/27/17 15:55
580-70201-9	0717-29	Water	07/25/17 19:00	07/27/17 15:55
580-70201-10	0717-31	Water	07/25/17 10:15	07/27/17 15:55
580-70201-11	0717-22	Water	07/26/17 10:15	07/27/17 15:55
580-70201-12	0717-23	Water	07/26/17 11:35	07/27/17 15:55
580-70201-13	0717-02	Water	07/26/17 12:50	07/27/17 15:55
580-70201-14	0717-97	Water	07/26/17 14:57	07/27/17 15:55
580-70201-15	0717-100	Water	07/26/17 16:16	07/27/17 15:55
580-70201-16	0717-01	Water	07/26/17 16:50	07/27/17 15:55
580-70201-17	0717-27	Water	07/26/17 18:10	07/27/17 15:55
580-70201-18	0717-28	Water	07/26/17 19:03	07/27/17 15:55
580-70201-19	Trip Blank	Water	07/26/17 00:01	07/27/17 15:55

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 9, 2017

Cathy Gamble
Test America
5755 8th Street East
Tacoma, WA 98424

Re: Analytical Data for Project 58009563
Laboratory Reference No. 1708-096

Dear Cathy:

Enclosed are the analytical results and associated quality control data for samples submitted on August 7, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

Case Narrative

Samples were collected on July 25 and 26, 2017 and received by the laboratory on August 7, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

VOLATILES EPA 8260C/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-14**					
Laboratory ID:	08-096-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

VOLATILES EPA 8260C/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-14**					
Laboratory ID:	08-096-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-15**					
Laboratory ID:	08-096-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-15**					
Laboratory ID:	08-096-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-16**					
Laboratory ID:	08-096-03					
Dichlorodifluoromethane	0.28	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-16**					
Laboratory ID:	08-096-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-04**					
Laboratory ID:	08-096-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-04**					
Laboratory ID:	08-096-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-03**					
Laboratory ID:	08-096-05					
Dichlorodifluoromethane	22	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	0.031	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-03**					
Laboratory ID:	08-096-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*114*	*77-129*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
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Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-19**					
Laboratory ID:	08-096-06					
Dichlorodifluoromethane	10	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	4.9	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	0.57	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	0.22	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-19**					
Laboratory ID:	08-096-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*112*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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Samples Submitted: August 7, 2017
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Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-32**					
Laboratory ID:	08-096-07					
Dichlorodifluoromethane	10	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	4.7	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	5.3	5.0	EPA 8260C	8-7-17	8-7-17	Y
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	0.57	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-32**					
Laboratory ID:	08-096-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-30**					
Laboratory ID:	08-096-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-30**					
Laboratory ID:	08-096-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-29**					
Laboratory ID:	08-096-09					
Dichlorodifluoromethane	0.26	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	13	5.0	EPA 8260C	8-7-17	8-7-17	Y
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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Date of Report: August 9, 2017
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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-29**					
Laboratory ID:	08-096-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*88*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-31**					
Laboratory ID:	08-096-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-31**					
Laboratory ID:	08-096-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-22**					
Laboratory ID:	08-096-11					
Dichlorodifluoromethane	43	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	18	0.20	EPA 8260C	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	2.1	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	0.21	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	0.37	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-22**					
Laboratory ID:	08-096-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-23**					
Laboratory ID:	08-096-12					
Dichlorodifluoromethane	35	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	0.13	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	1.8	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-23**					
Laboratory ID:	08-096-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-02**					
Laboratory ID:	08-096-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-02**					
Laboratory ID:	08-096-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*77-129*				
Toluene-d8	*107*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-97**					
Laboratory ID:	08-096-14					
Dichlorodifluoromethane	19	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	4.0	0.20	EPA 8260C	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	67	2.0	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	2.8	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	0.94	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-97**					
Laboratory ID:	08-096-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-100**					
Laboratory ID:	08-096-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Samples Submitted: August 7, 2017
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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-100**					
Laboratory ID:	08-096-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-01**					
Laboratory ID:	08-096-16					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-01**					
Laboratory ID:	08-096-16					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*108*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-27**					
Laboratory ID:	08-096-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-27**					
Laboratory ID:	08-096-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-28**					
Laboratory ID:	08-096-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-28**					
Laboratory ID:	08-096-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

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Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-096-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-096-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

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Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0807W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloromethane	ND	1.4	EPA 8260C	8-7-17	8-7-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-7-17	8-7-17	
Bromomethane	ND	0.66	EPA 8260C	8-7-17	8-7-17	
Chloroethane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Acetone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Iodomethane	ND	4.9	EPA 8260C	8-7-17	8-7-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-7-17	8-7-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Butanone	ND	5.0	EPA 8260C	8-7-17	8-7-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chloroform	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Benzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Trichloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Dibromomethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Toluene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-7-17	8-7-17	

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VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0807W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Hexanone	ND	2.0	EPA 8260C	8-7-17	8-7-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-7-17	8-7-17	
o-Xylene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Styrene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromoform	ND	1.0	EPA 8260C	8-7-17	8-7-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Bromobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Naphthalene	ND	1.0	EPA 8260C	8-7-17	8-7-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-7-17	8-7-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*95*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: August 7, 2017
Laboratory Reference: 1708-096
Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloromethane	ND	1.3	EPA 8260C	8-8-17	8-8-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-8-17	8-8-17	
Bromomethane	ND	0.53	EPA 8260C	8-8-17	8-8-17	
Chloroethane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Acetone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Iodomethane	ND	4.1	EPA 8260C	8-8-17	8-8-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-8-17	8-8-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Butanone	ND	5.0	EPA 8260C	8-8-17	8-8-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chloroform	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Benzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Trichloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Dibromomethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Toluene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-8-17	8-8-17	

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Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Hexanone	ND	2.0	EPA 8260C	8-8-17	8-8-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-8-17	8-8-17	
o-Xylene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Styrene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromoform	ND	1.0	EPA 8260C	8-8-17	8-8-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Bromobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,4-Trichlorobenzene	ND	0.25	EPA 8260C	8-8-17	8-8-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Naphthalene	ND	1.0	EPA 8260C	8-8-17	8-8-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-8-17	8-8-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

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Project: 58009563

VOLATILES EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0807W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.41**	**8.57**	10.0	10.0	94	86	63-127	9	17	
Benzene	**10.3**	**9.56**	10.0	10.0	103	96	76-121	7	12	
Trichloroethene	**8.58**	**7.83**	10.0	10.0	86	78	64-120	9	15	
Toluene	**10.1**	**9.03**	10.0	10.0	101	90	82-120	11	13	
Chlorobenzene	**9.28**	**8.49**	10.0	10.0	93	85	80-120	9	14	
Surrogate:										
Dibromofluoromethane					*99*	*104*	*77-129*			
Toluene-d8					*97*	*98*	*80-127*			
4-Bromofluorobenzene					*97*	*96*	*78-125*			

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Laboratory Reference: 1708-096
Project: 58009563

VOLATILES EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0808W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**8.49**	**8.58**	10.0	10.0	85	86	63-127	1	17	
Benzene	**9.51**	**9.69**	10.0	10.0	95	97	76-121	2	12	
Trichloroethene	**7.71**	**8.00**	10.0	10.0	77	80	64-120	4	15	
Toluene	**9.04**	**9.46**	10.0	10.0	90	95	82-120	5	13	
Chlorobenzene	**8.30**	**8.59**	10.0	10.0	83	86	80-120	3	14	
Surrogate:										
Dibromofluoromethane					*101*	*99*	*77-129*			
Toluene-d8					*97*	*99*	*80-127*			
4-Bromofluorobenzene					*91*	*91*	*78-125*			

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

08-096

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-48787.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 1 of 3
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-70201-1
Address: 14648 NE 95th Street,	Due Date Requested: 8/8/2017			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Volatiles, custom list, low level)/ Volatiles, custom list L2 EIM EDD	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	0717-14	7/25/17	10:08 Pacific		Water			X	2	
2	0717-15	7/25/17	11:47 Pacific		Water			X	2	
3	0717-16	7/25/17	12:47 Pacific		Water			X	2	
4	0717-04	7/25/17	14:00 Pacific		Water			X	2	
5	0717-03	7/25/17	15:18 Pacific		Water			X	2	
6	0717-19	7/25/17	16:29 Pacific		Water			X	2	
7	0717-32	7/25/17	16:40 Pacific		Water			X	2	
8	0717-30	7/25/17	17:50 Pacific		Water			X	2	
9	0717-29	7/25/17	19:00 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/7/17 1500	TA-SEA	[signature]	8/7/17 1500	OSE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/13/2017 (Rev. 1)

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

08-096

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-48787.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 2 of 3
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-70201-1
Address: 14648 NE 95th Street,	Due Date Requested: 8/8/2017			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Volatiles, custom list, low level)/ Volatiles, custom list L2 EIM EDD	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
10	0717-31	7/25/17	10:15 Pacific		Water			X	2	
11	0717-22	7/26/17	10:15 Pacific		Water			X	2	
12	0717-23	7/26/17	11:35 Pacific		Water			X	2	
13	0717-02	7/26/17	12:50 Pacific		Water			X	2	
14	0717-97	7/26/17	14:57 Pacific		Water			X	2	
15	0717-100	7/26/17	16:16 Pacific		Water			X	2	
16	0717-01	7/26/17	16:50 Pacific		Water			X	2	
17	0717-27	7/26/17	18:10 Pacific		Water			X	2	
18	0717-28	7/26/17	19:03 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/7/17 1500	TA-SEA	[signature]	8/7/17 1500	OSE
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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Chain of Custody Record

08-096

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-48787.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 3 of 3
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-70201-1
Address: 14648 NE 95th Street, ,	Due Date Requested: 8/8/2017			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Volatiles, custom list, low level)/ Volatiles, custom list L2 EIM EDD	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
19 Trip Blank	7/26/17	00:01 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/7/17 1500	TA-SEA	[signature]	8/7/17 1500	OSE
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

580-70201 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Gamble, Cathy L	COC No: 580-25236-8338.7
Client Contact: Mr. Sam Graber	Phone: 612 940 2980	E-Mail: cathy.gamble@testamericainc.com	Page: Page 7 of 7
Company: SCS Engineers		70201	Job #: 04207033.10
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard		Preservation Codes:
City: Bellevue	TAT Requested (days):		
State, Zip: WA, 98005-1877			
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required		
Email: SGraber@scsengineers.com	WO #:		
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D, 300_ORGFM_28D	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1, 353.2, 5220D	SM5310_TOC_B - Local Method	2540C - Local Method	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List							Total N	Special Instructions/Note:
Preservation Code:							N	D	D	S	S	N	A	N								
-1 0717-14	7/25/17	1008	G	Water	V	IJ	X	X	X	X	X	X	X								9	
0717-15		1147		Water																		
-3 0717-16		1247		Water																		
0717-04		1400		Water																		
-5 0717-03		1518		Water																		
0717-19		1629		Water																		
-7 0717-32		1640		Water																		
0717-30		1750		Water																		
-9 0717-29		1900		Water																		
0717-31		1015		Water																		
-11 0717-22	7/26/17	1015		Water																		

TB A2 Cooler Cor 0.2 w/o Unc 1.0
Cooler Dsc Lg blue @Lab
Wet/Packs Packing bub

TB A2 Cooler Cor 2.8 w/o Unc 3.6
Cooler Dsc Lg Blue @Lab
Wet/Packs Packing bub

TB A2 Cooler Cor 0.2 w/o Unc 1.0
Cooler Dsc Lg Blue @Lab
Wet/Packs Packing bub
lab Cor

TB A2 Cooler Cor 4.4 Unc 5.2
Cooler Dsc lg blue wire @Lab
Wet/Packs Packing bubble
L.C. w/OCS

TB A2 Cooler Cor 4.4 w/o Unc 5.2
Cooler Dsc Lg Blue @Lab
Wet/Packs Packing bub

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/27/17 900	SCS	B. Hall	7/27/17 1555	SEA
Relinquished by:	Date/Time:	Company	Received by:		
Relinquished by:	Date/Time:	Company	Received by:		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Re

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Gamble, Cathy L	Carrier Tracking No(s): 70201	COC No: 580-25236-8338.5
Client Contact: Mr. Sam Graber	Phone: 612 940 2950	E-Mail: cathy.gamble@testamericainc.com		Page: Page 5 of 7
Company: SCS Engineers				Job #:
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877				
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
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Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D, 300_ORGFM_28D	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1, 353.2, 5220D	SM5310_TOC_B - Local Method	2540C - Local Method	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	N	A	N							
0717-23	7/26/17	1135	6	Water	Y	N	X	X	X	X	X	X	X							9	
-13 0717-02		1250		Water	Y		X	X	X	X	X	X	X							9	
0717-97		1457		Water	N								X							3	
-15 0717-100		1616		Water	N								X							3	
0717-01		1650		Water	Y		X	X	X	X	X	X	X							9	
-17 0717-27		1810		Water	Y		X	X	X	X	X	X	X							9	
0717-28		1903		Water	Y		X	X	X	X	X	X	X							9	
-19 Trip blank		-	6	Water	N								X								
				Water																	
				Water																	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/27/17 900	SCS	B. Zell	7/27/17 1555	SEA TO
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-70201-1

Login Number: 70201
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-70247-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
9/14/2017 10:30:28 AM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

Table of Contents

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Job ID: 580-70247-1

Laboratory: TestAmerica Seattle

Narrative

Revised Report: Results must be reported to the RL.

Receipt
The samples were received on 7/31/2017 1:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.7º C, 0.9º C and 1.0º C.

Receipt Exceptions
The lab currently cannot meet a vinyl chloride limit of 0.02 ug/L. The client requires that a limit of 0.02 ug/L be met. This compound was only sent to On Site Laboratories with client permission; however, due to instrument and capapcity issues, the entire 8260 low level compound list was analyzed by OnSite Laboratories to ensure analysis holding times were met: 0717-08 (580-70247-1), 0717-09 (580-70247-2), 0717-12 (580-70247-3), 0717-95 (580-70247-4), 0717-98 (580-70247-5), 0717-96 (580-70247-6), 0717-25 (580-70247-7), 0717-13 (580-70247-8), 0717-99 (580-70247-9), 0717-26 (580-70247-10), 0717-18 (580-70247-11), 0717-17 (580-70247-12) and Trip Blank (580-70247-13).

GC/MS Semi VOA
Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 580-253708 recovered outside acceptance criteria, low biased, for Dalapon and MCPA. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8151A: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 580-252998 and analytical batch 580-253708 recovered outside control limits for Dalapon. Dalapon has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The LCSD had passing Dalapon recovery so batch precision exceeded control limits for this unpredictable target. These results have been reported and qualified.

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

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

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

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

Subcontract Work
Method Volatiles, custom list, low level: This method was subcontracted to OnSite Environmental Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

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

Client Sample ID: 0717-08
Date Collected: 07/27/17 10:43
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		08/02/17 09:03	08/03/17 11:57	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 11:57	1
Magnesium	**96**		1.1		mg/L		08/02/17 09:03	08/03/17 11:57	1
Manganese	**0.24**		0.020		mg/L		08/02/17 09:03	08/03/17 11:57	1
Potassium	**11**		3.3		mg/L		08/02/17 09:03	08/03/17 11:57	1
Sodium	**47**		2.0		mg/L		08/02/17 09:03	08/03/17 11:57	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Arsenic	**0.0040**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:27	1
Barium	**0.088**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:27	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Chromium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:27	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:27	1
Nickel	**0.0088**		0.0030		mg/L		08/02/17 09:03	08/02/17 17:27	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:27	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:27	1
Vanadium	ND		0.0040		mg/L		08/02/17 09:03	08/02/17 17:27	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.33**		0.20		mg/L			08/02/17 13:26	1
Chloride	**100**		9.0		mg/L			08/02/17 16:52	10
Sulfate	**63**		1.2		mg/L			08/02/17 13:26	1
Ammonia	ND	F2 F1	0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	ND		0.15		mg/L			08/03/17 13:56	1
Total Organic Carbon	**3.1**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**580**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**580**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**830**		20		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND	F1	10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-09
Date Collected: 07/27/17 12:20
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-2
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**68**		1.1		mg/L		08/02/17 09:03	08/03/17 12:22	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 12:22	1
Magnesium	**41**		1.1		mg/L		08/02/17 09:03	08/03/17 12:22	1
Manganese	ND		0.020		mg/L		08/02/17 09:03	08/03/17 12:22	1
Potassium	**6.8**		3.3		mg/L		08/02/17 09:03	08/03/17 12:22	1
Sodium	**27**		2.0		mg/L		08/02/17 09:03	08/03/17 12:22	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Arsenic	**0.0036**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:31	1
Barium	**0.028**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:31	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Chromium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:31	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:31	1
Nickel	ND		0.0030		mg/L		08/02/17 09:03	08/02/17 17:31	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:31	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:31	1
Vanadium	ND		0.0040		mg/L		08/02/17 09:03	08/02/17 17:31	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/02/17 13:39	1
Chloride	**49**		0.90		mg/L			08/02/17 13:39	1
Sulfate	**38**		1.2		mg/L			08/02/17 13:39	1
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	ND		0.15		mg/L			08/03/17 14:01	1
Total Organic Carbon	**1.8**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**280**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**280**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**420**		10		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-12
Date Collected: 07/27/17 13:42
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-3
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		08/02/17 09:03	08/03/17 12:25	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 12:25	1
Magnesium	**78**		1.1		mg/L		08/02/17 09:03	08/03/17 12:25	1
Manganese	**0.024**		0.020		mg/L		08/02/17 09:03	08/03/17 12:25	1
Potassium	**7.0**		3.3		mg/L		08/02/17 09:03	08/03/17 12:25	1
Sodium	**30**		2.0		mg/L		08/02/17 09:03	08/03/17 12:25	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Arsenic	**0.0029**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:36	1
Barium	**0.037**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:36	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Chromium	**0.0011**		0.00040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:36	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:36	1
Nickel	**0.0058**		0.0030		mg/L		08/02/17 09:03	08/02/17 17:36	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:36	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:36	1
Vanadium	**0.0046**		0.0040		mg/L		08/02/17 09:03	08/02/17 17:36	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.21**		0.20		mg/L			08/02/17 13:52	1
Chloride	**59**		0.90		mg/L			08/02/17 13:52	1
Sulfate	**95**		12		mg/L			08/02/17 17:05	10
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	**42**		3.0		mg/L			08/03/17 14:02	20
Total Organic Carbon	**2.4**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**400**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**830**		10		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-25
Date Collected: 07/27/17 18:13
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-7
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		08/02/17 09:03	08/03/17 12:29	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 12:29	1
Magnesium	**110**		1.1		mg/L		08/02/17 09:03	08/03/17 12:29	1
Manganese	**0.048**		0.020		mg/L		08/02/17 09:03	08/03/17 12:29	1
Potassium	**9.4**		3.3		mg/L		08/02/17 09:03	08/03/17 12:29	1
Sodium	**46**		2.0		mg/L		08/02/17 09:03	08/03/17 12:29	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Arsenic	**0.0058**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:40	1
Barium	**0.050**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:40	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Chromium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Cobalt	**0.00075**		0.00040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:40	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:40	1
Nickel	**0.0060**		0.0030		mg/L		08/02/17 09:03	08/02/17 17:40	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:40	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:40	1
Vanadium	**0.0070**		0.0040		mg/L		08/02/17 09:03	08/02/17 17:40	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/02/17 14:05	1
Chloride	**72**		0.90		mg/L			08/02/17 14:05	1
Sulfate	**68**		1.2		mg/L			08/02/17 14:05	1
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	ND		0.15		mg/L			08/03/17 14:03	1
Total Organic Carbon	**2.6**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**840**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**840**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**1000**		20		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-13
Date Collected: 07/27/17 19:10
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-8
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**75**		1.1		mg/L		08/02/17 09:03	08/03/17 12:32	1
Iron	**0.36**		0.30		mg/L		08/02/17 09:03	08/03/17 12:32	1
Magnesium	**45**		1.1		mg/L		08/02/17 09:03	08/03/17 12:32	1
Manganese	**0.11**		0.020		mg/L		08/02/17 09:03	08/03/17 12:32	1
Potassium	**6.0**		3.3		mg/L		08/02/17 09:03	08/03/17 12:32	1
Sodium	**32**		2.0		mg/L		08/02/17 09:03	08/03/17 12:32	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Arsenic	**0.0072**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:45	1
Barium	**0.033**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:45	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Chromium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:45	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:45	1
Nickel	ND		0.0030		mg/L		08/02/17 09:03	08/02/17 17:45	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:45	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:45	1
Vanadium	ND		0.0040		mg/L		08/02/17 09:03	08/02/17 17:45	1
Zinc	**0.088**		0.0070		mg/L		08/02/17 09:03	08/02/17 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/02/17 14:18	1
Chloride	**59**		0.90		mg/L			08/02/17 14:18	1
Sulfate	**43**		1.2		mg/L			08/02/17 14:18	1
Ammonia	**0.22**		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	ND		0.15		mg/L			08/03/17 14:07	1
Total Organic Carbon	**2.6**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**470**		10		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-26
Date Collected: 07/28/17 11:08
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-10
Matrix: Water

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
2,4-D	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
2,4-DB	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
4-Nitrophenol	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
Dalapon	ND	*	0.44		ug/L		08/04/17 15:10	08/15/17 10:51	1
Dicamba	**1.3**		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
Dichlorprop	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
Dinoseb	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
MCPA	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
Mecoprop	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
Pentachlorophenol	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1
Silvex (2,4,5-TP)	ND		0.27		ug/L		08/04/17 15:10	08/15/17 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*51 - 150*	*08/04/17 15:10*	*08/15/17 10:51*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		08/02/17 09:03	08/03/17 12:35	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 12:35	1
Magnesium	**49**		1.1		mg/L		08/02/17 09:03	08/03/17 12:35	1
Manganese	ND		0.020		mg/L		08/02/17 09:03	08/03/17 12:35	1
Potassium	**6.4**		3.3		mg/L		08/02/17 09:03	08/03/17 12:35	1
Sodium	**29**		2.0		mg/L		08/02/17 09:03	08/03/17 12:35	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Arsenic	**0.0025**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:49	1
Barium	**0.039**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:49	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Chromium	**0.017**		0.00040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Cobalt	**0.0014**		0.00040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Copper	**0.0024**		0.0020		mg/L		08/02/17 09:03	08/02/17 17:49	1
Lead	**0.0013**		0.00080		mg/L		08/02/17 09:03	08/02/17 17:49	1
Nickel	**0.015**		0.0030		mg/L		08/02/17 09:03	08/02/17 17:49	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:49	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:49	1
Vanadium	**0.0048**		0.0040		mg/L		08/02/17 09:03	08/02/17 17:49	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/02/17 15:22	1
Chloride	**100**		0.90		mg/L			08/02/17 15:22	1
Sulfate	**40**		1.2		mg/L			08/02/17 15:22	1
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	**12**		1.5		mg/L			08/03/17 14:08	10

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70247-1

Client Sample ID: 0717-26
Date Collected: 07/28/17 11:08
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.2**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**640**		10		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-18

Date Collected: 07/28/17 12:18
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-11

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		08/02/17 09:03	08/03/17 12:39	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 12:39	1
Magnesium	**92**		1.1		mg/L		08/02/17 09:03	08/03/17 12:39	1
Manganese	ND		0.020		mg/L		08/02/17 09:03	08/03/17 12:39	1
Potassium	**10**		3.3		mg/L		08/02/17 09:03	08/03/17 12:39	1
Sodium	**32**		2.0		mg/L		08/02/17 09:03	08/03/17 12:39	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Arsenic	**0.0022**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:54	1
Barium	**0.057**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:54	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Chromium	**0.00040**		0.00040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:54	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:54	1
Nickel	**0.0056**		0.0030		mg/L		08/02/17 09:03	08/02/17 17:54	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:54	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:54	1
Vanadium	**0.0048**		0.0040		mg/L		08/02/17 09:03	08/02/17 17:54	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/02/17 15:35	1
Chloride	**26**		0.90		mg/L			08/02/17 15:35	1
Sulfate	**120**		12		mg/L			08/02/17 17:18	10
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	**6.5**		0.75		mg/L			08/03/17 14:09	5
Total Organic Carbon	**3.0**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**700**		5.0		mg/L			08/09/17 12:40	1
Bicarbonate Alkalinity as CaCO3	**700**		5.0		mg/L			08/09/17 12:40	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 12:40	1
Total Dissolved Solids	**930**		10		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Client Sample ID: 0717-17

Date Collected: 07/28/17 13:28
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-12

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		08/02/17 09:03	08/03/17 12:42	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 12:42	1
Magnesium	**73**		1.1		mg/L		08/02/17 09:03	08/03/17 12:42	1
Manganese	ND		0.020		mg/L		08/02/17 09:03	08/03/17 12:42	1
Potassium	**8.6**		3.3		mg/L		08/02/17 09:03	08/03/17 12:42	1
Sodium	**43**		2.0		mg/L		08/02/17 09:03	08/03/17 12:42	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Arsenic	**0.0039**		0.0010		mg/L		08/02/17 09:03	08/02/17 17:58	1
Barium	**0.030**		0.0012		mg/L		08/02/17 09:03	08/02/17 17:58	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Chromium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 17:58	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 17:58	1
Nickel	**0.0048**		0.0030		mg/L		08/02/17 09:03	08/02/17 17:58	1
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 17:58	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 17:58	1
Vanadium	ND		0.0040		mg/L		08/02/17 09:03	08/02/17 17:58	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.21**		0.20		mg/L			08/02/17 15:48	1
Chloride	**70**		0.90		mg/L			08/02/17 15:48	1
Sulfate	**67**		1.2		mg/L			08/02/17 15:48	1
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1
Nitrate Nitrite as N	**3.2**		0.30		mg/L			08/03/17 14:10	2
Total Organic Carbon	**3.1**		1.0		mg/L			08/02/17 20:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		5.0		mg/L			08/09/17 15:54	1
Bicarbonate Alkalinity as CaCO3	**490**		5.0		mg/L			08/09/17 15:54	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 15:54	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/09/17 15:54	1
Total Dissolved Solids	**690**		10		mg/L			08/02/17 09:30	1
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-252998/1-A
Matrix: Water
Analysis Batch: 253708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252998

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
2,4-D	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
2,4-DB	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
4-Nitrophenol	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
Dalapon	ND		0.40		ug/L		08/04/17 15:10	08/15/17 09:37	1
Dicamba	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
Dichlorprop	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
Dinoseb	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
MCPA	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
Mecoprop	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
Pentachlorophenol	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		08/04/17 15:10	08/15/17 09:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*87*		*51 - 150*	*08/04/17 15:10*	*08/15/17 09:37*	*1*

Lab Sample ID: LCS 580-252998/2-A
Matrix: Water
Analysis Batch: 253708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252998

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-T			5.00	3.14		ug/L		63	20 - 150		
2,4-D			5.00	3.25		ug/L		65	20 - 150		
2,4-DB			5.00	4.39		ug/L		88	50 - 150		
4-Nitrophenol			5.00	5.14		ug/L		103	28 - 150		
Dalapon			5.00	0.427	*	ug/L		9	20 - 120		
Dicamba			5.00	3.87		ug/L		77	20 - 150		
Dichlorprop			5.00	4.62		ug/L		92	23 - 150		
Dinoseb			5.00	5.13		ug/L		103	24 - 150		
MCPA			5.00	3.01		ug/L		60	21 - 150		
Mecoprop			5.00	4.67		ug/L		93	51 - 150		
Pentachlorophenol			5.00	3.93		ug/L		79	48 - 150		
Silvex (2,4,5-TP)			5.00	4.60		ug/L		92	24 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*94*		*51 - 150*

Lab Sample ID: LCSD 580-252998/3-A
Matrix: Water
Analysis Batch: 253708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252998

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			5.00	3.80		ug/L		76	20 - 150	19	35
2,4-D			5.00	3.75		ug/L		75	20 - 150	14	35
2,4-DB			5.00	5.03		ug/L		101	50 - 150	14	35
4-Nitrophenol			5.00	4.45		ug/L		89	28 - 150	14	35
Dalapon			5.00	2.19	*	ug/L		44	20 - 120	135	35

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: LCSD 580-252998/3-A
Matrix: Water
Analysis Batch: 253708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252998

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dicamba			5.00	4.16		ug/L		83	20 - 150	7	35
Dichlorprop			5.00	4.89		ug/L		98	23 - 150	6	35
Dinoseb			5.00	5.31		ug/L		106	24 - 150	4	35
MCPA			5.00	2.95		ug/L		59	21 - 150	2	35
Mecoprop			5.00	4.26		ug/L		85	51 - 150	9	35
Pentachlorophenol			5.00	3.65		ug/L		73	48 - 150	7	35
Silvex (2,4,5-TP)			5.00	4.93		ug/L		99	24 - 150	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*51 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-252750/20-A
Matrix: Water
Analysis Batch: 252931

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		08/02/17 09:03	08/03/17 11:48	1
Iron	ND		0.30		mg/L		08/02/17 09:03	08/03/17 11:48	1
Magnesium	ND		1.1		mg/L		08/02/17 09:03	08/03/17 11:48	1
Manganese	ND		0.020		mg/L		08/02/17 09:03	08/03/17 11:48	1
Potassium	ND		3.3		mg/L		08/02/17 09:03	08/03/17 11:48	1
Sodium	ND		2.0		mg/L		08/02/17 09:03	08/03/17 11:48	1

Lab Sample ID: LCS 580-252750/21-A
Matrix: Water
Analysis Batch: 252931

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	21.0		mg/L		105	80 - 120
Iron			22.0	22.3		mg/L		101	80 - 120
Magnesium			20.0	20.1		mg/L		100	80 - 120
Manganese			1.00	1.07		mg/L		107	80 - 120
Potassium			20.0	21.0		mg/L		105	80 - 120
Sodium			20.0	20.8		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-252750/22-A
Matrix: Water
Analysis Batch: 252931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	20.2		mg/L		101	80 - 120	4	20
Iron			22.0	21.4		mg/L		97	80 - 120	4	20
Magnesium			20.0	19.4		mg/L		97	80 - 120	3	20
Manganese			1.00	1.02		mg/L		102	80 - 120	4	20
Potassium			20.0	20.1		mg/L		100	80 - 120	4	20
Sodium			20.0	20.2		mg/L		101	80 - 120	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-70247-1 MS
Matrix: Water
Analysis Batch: 252931

Client Sample ID: 0717-08
Prep Type: Dissolved
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	130		20.0	147	4	mg/L		101	75 - 125
Iron	ND		22.0	21.5		mg/L		98	75 - 125
Magnesium	96		20.0	116	4	mg/L		99	75 - 125
Manganese	0.24		1.00	1.27		mg/L		103	75 - 125
Potassium	11		20.0	31.7		mg/L		105	75 - 125
Sodium	47		20.0	68.5		mg/L		106	75 - 125

Lab Sample ID: 580-70247-1 MSD
Matrix: Water
Analysis Batch: 252931

Client Sample ID: 0717-08
Prep Type: Dissolved
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	130		20.0	149	4	mg/L		108	75 - 125	1	20
Iron	ND		22.0	21.6		mg/L		98	75 - 125	1	20
Magnesium	96		20.0	116	4	mg/L		99	75 - 125	0	20
Manganese	0.24		1.00	1.28		mg/L		104	75 - 125	1	20
Potassium	11		20.0	31.9		mg/L		106	75 - 125	1	20
Sodium	47		20.0	68.5		mg/L		106	75 - 125	0	20

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 252931

Client Sample ID: 0717-08
Prep Type: Dissolved
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	130		126		mg/L		1	20
Iron	ND		ND		mg/L		NC	20
Magnesium	96		94.5		mg/L		2	20
Manganese	0.24		0.240		mg/L		1	20
Potassium	11		10.6		mg/L		1	20
Sodium	47		46.7		mg/L		1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-252750/20-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Arsenic	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 16:33	1
Barium	ND		0.0012		mg/L		08/02/17 09:03	08/02/17 16:33	1
Beryllium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Cadmium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Chromium	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Cobalt	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Copper	ND		0.0020		mg/L		08/02/17 09:03	08/02/17 16:33	1
Lead	ND		0.00080		mg/L		08/02/17 09:03	08/02/17 16:33	1
Nickel	ND		0.0030		mg/L		08/02/17 09:03	08/02/17 16:33	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-252750/20-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0080		mg/L		08/02/17 09:03	08/02/17 16:33	1
Silver	ND		0.00040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Thallium	ND		0.0010		mg/L		08/02/17 09:03	08/02/17 16:33	1
Vanadium	ND		0.0040		mg/L		08/02/17 09:03	08/02/17 16:33	1
Zinc	ND		0.0070		mg/L		08/02/17 09:03	08/02/17 16:33	1

Lab Sample ID: LCS 580-252750/21-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.14		mg/L		105	80 - 120
Arsenic	4.00	4.21		mg/L		105	80 - 120
Barium	4.00	4.21		mg/L		105	80 - 120
Beryllium	0.100	0.105		mg/L		105	80 - 120
Cadmium	0.100	0.109		mg/L		109	80 - 120
Chromium	0.400	0.394		mg/L		98	80 - 120
Cobalt	1.00	0.968		mg/L		97	80 - 120
Copper	0.500	0.506		mg/L		101	80 - 120
Lead	1.00	0.988		mg/L		99	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	4.00	4.28		mg/L		107	80 - 120
Silver	0.600	0.621		mg/L		104	80 - 120
Thallium	4.00	3.93		mg/L		98	80 - 120
Vanadium	1.00	0.992		mg/L		99	80 - 120
Zinc	4.00	4.15		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-252750/22-A
Matrix: Water
Analysis Batch: 252830

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	3.15		mg/L		105	80 - 120	0	20
Arsenic	4.00	4.16		mg/L		104	80 - 120	1	20
Barium	4.00	4.26		mg/L		106	80 - 120	1	20
Beryllium	0.100	0.106		mg/L		106	80 - 120	1	20
Cadmium	0.100	0.111		mg/L		111	80 - 120	2	20
Chromium	0.400	0.396		mg/L		99	80 - 120	0	20
Cobalt	1.00	0.955		mg/L		96	80 - 120	1	20
Copper	0.500	0.494		mg/L		99	80 - 120	2	20
Lead	1.00	0.986		mg/L		99	80 - 120	0	20
Nickel	1.00	1.02		mg/L		102	80 - 120	3	20
Selenium	4.00	4.22		mg/L		106	80 - 120	1	20
Silver	0.600	0.626		mg/L		104	80 - 120	1	20
Thallium	4.00	3.95		mg/L		99	80 - 120	1	20
Vanadium	1.00	0.997		mg/L		100	80 - 120	0	20
Zinc	4.00	4.08		mg/L		102	80 - 120	2	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70247-1 MS
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-08
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.28		mg/L		109	80 - 120
Arsenic	0.0040		4.00	4.27		mg/L		107	80 - 120
Barium	0.088		4.00	4.44		mg/L		109	80 - 120
Beryllium	ND		0.100	0.106		mg/L		106	80 - 120
Cadmium	ND		0.100	0.110		mg/L		110	80 - 120
Chromium	ND		0.400	0.400		mg/L		100	80 - 120
Cobalt	ND		1.00	0.979		mg/L		98	80 - 120
Copper	ND		0.500	0.500		mg/L		100	80 - 120
Lead	ND		1.00	1.02		mg/L		102	80 - 120
Nickel	0.0088		1.00	1.05		mg/L		104	80 - 120
Selenium	ND		4.00	4.32		mg/L		108	80 - 120
Silver	ND		0.600	0.632		mg/L		105	80 - 120
Thallium	ND		4.00	4.16		mg/L		104	80 - 120
Vanadium	ND		1.00	1.01		mg/L		101	80 - 120
Zinc	ND		4.00	4.20		mg/L		105	80 - 120

Lab Sample ID: 580-70247-1 MSD
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-08
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.30		mg/L		110	80 - 120	0	20
Arsenic	0.0040		4.00	4.28		mg/L		107	80 - 120	0	20
Barium	0.088		4.00	4.44		mg/L		109	80 - 120	0	20
Beryllium	ND		0.100	0.107		mg/L		107	80 - 120	0	20
Cadmium	ND		0.100	0.113		mg/L		113	80 - 120	3	20
Chromium	ND		0.400	0.402		mg/L		100	80 - 120	0	20
Cobalt	ND		1.00	0.984		mg/L		98	80 - 120	1	20
Copper	ND		0.500	0.499		mg/L		100	80 - 120	0	20
Lead	ND		1.00	1.03		mg/L		103	80 - 120	0	20
Nickel	0.0088		1.00	1.05		mg/L		104	80 - 120	0	20
Selenium	ND		4.00	4.37		mg/L		109	80 - 120	1	20
Silver	ND		0.600	0.635		mg/L		106	80 - 120	0	20
Thallium	ND		4.00	4.14		mg/L		103	80 - 120	0	20
Vanadium	ND		1.00	1.01		mg/L		101	80 - 120	0	20
Zinc	ND		4.00	4.18		mg/L		104	80 - 120	0	20

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-08
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0040		0.00402		mg/L		0.6	20
Barium	0.088		0.0881		mg/L		0.6	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 252830

Client Sample ID: 0717-08
Prep Type: Total Recoverable
Prep Batch: 252750

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0088		0.00882		mg/L		0.8	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-252844/3
Matrix: Water
Analysis Batch: 252844

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/02/17 12:48	1
Chloride	ND		0.90		mg/L			08/02/17 12:48	1
Sulfate	ND		1.2		mg/L			08/02/17 12:48	1

Lab Sample ID: LCS 580-252844/4
Matrix: Water
Analysis Batch: 252844

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.05		mg/L		101	90 - 110
Chloride	50.0	51.8		mg/L		104	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: LCSD 580-252844/5
Matrix: Water
Analysis Batch: 252844

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	5.05		mg/L		101	90 - 110	0	15
Chloride	50.0	51.8		mg/L		104	90 - 110	0	15
Sulfate	50.0	51.2		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-70247-8 MS
Matrix: Water
Analysis Batch: 252844

Client Sample ID: 0717-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	5.52		mg/L		107	90 - 110
Chloride	59		50.0	107		mg/L		96	90 - 110
Sulfate	43		50.0	95.1		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-70247-8 MSD — **Client Sample ID: 0717-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252844

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.58		mg/L		108	90 - 110	1	15
Chloride	59		50.0	108		mg/L		96	90 - 110	0	15
Sulfate	43		50.0	95.6		mg/L		105	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-253479/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 253510 — **Prep Batch: 253479**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/11/17 10:52	08/11/17 15:04	1

Lab Sample ID: LCS 580-253479/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 253510 — **Prep Batch: 253479**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	2.17		mg/L		109	90 - 110

Lab Sample ID: 580-70247-1 MS — **Client Sample ID: 0717-08**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 253510 — **Prep Batch: 253479**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND	F2 F1	2.00	2.17		mg/L		109	90 - 110

Lab Sample ID: 580-70247-1 MSD — **Client Sample ID: 0717-08**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 253510 — **Prep Batch: 253479**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F2 F1	4.00	4.77	F1 F4	mg/L		119	90 - 110	75	20

Lab Sample ID: 580-70247-1 DU — **Client Sample ID: 0717-08**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 253510 — **Prep Batch: 253479**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND	F2 F1	ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-252911/12 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 252911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			08/03/17 13:53	1

Lab Sample ID: LCS 580-252911/13
Matrix: Water
Analysis Batch: 252911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.977		mg/L		98	90 - 110

Lab Sample ID: LCSD 580-252911/14
Matrix: Water
Analysis Batch: 252911

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.974		mg/L		97	90 - 110	0	20

Lab Sample ID: 580-70247-1 MS
Matrix: Water
Analysis Batch: 252911

Client Sample ID: 0717-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		0.500	0.480		mg/L		96	90 - 110

Lab Sample ID: 580-70247-1 MSD
Matrix: Water
Analysis Batch: 252911

Client Sample ID: 0717-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		0.500	0.464		mg/L		93	90 - 110	3	20

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 252911

Client Sample ID: 0717-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-253256/2
Matrix: Water
Analysis Batch: 253256

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	101		mg/L		101	85 - 115

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 253256

Client Sample ID: 0717-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	580		601		mg/L		4	17
Bicarbonate Alkalinity as CaCO3	580		601		mg/L		4	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-252753/1
Matrix: Water
Analysis Batch: 252753

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			08/02/17 09:30	1

Lab Sample ID: LCS 580-252753/2
Matrix: Water
Analysis Batch: 252753

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	984		mg/L		98	80 - 120		

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 252753

Client Sample ID: 0717-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	830			816		mg/L				1	20

Lab Sample ID: 580-70247-12 DU
Matrix: Water
Analysis Batch: 252753

Client Sample ID: 0717-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	690			693		mg/L				0.1	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-252769/3-A
Matrix: Water
Analysis Batch: 252807

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252769

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		08/02/17 10:00	08/02/17 10:00	1

Lab Sample ID: LCS 580-252769/4-A
Matrix: Water
Analysis Batch: 252807

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	81.6		mg/L		109	80 - 120		

Lab Sample ID: 580-70247-1 MS
Matrix: Water
Analysis Batch: 252807

Client Sample ID: 0717-08
Prep Type: Total/NA
Prep Batch: 252769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND	F1	25.0	34.7	F1	mg/L		139	75 - 125		

Method: SM 5220D - COD (Continued)

Lab Sample ID: 580-70247-1 DU
Matrix: Water
Analysis Batch: 252807

Client Sample ID: 0717-08
Prep Type: Total/NA
Prep Batch: 252769

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND	F1	ND		mg/L		NC	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-252850/29
Matrix: Water
Analysis Batch: 252850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			08/02/17 20:56	1

Lab Sample ID: MB 580-252850/3
Matrix: Water
Analysis Batch: 252850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			08/02/17 20:56	1

Lab Sample ID: LCS 580-252850/30
Matrix: Water
Analysis Batch: 252850

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.5		mg/L		105	85 - 115

Lab Sample ID: LCS 580-252850/4
Matrix: Water
Analysis Batch: 252850

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.5		mg/L		105	85 - 115

Lab Sample ID: 580-70247-8 MS
Matrix: Water
Analysis Batch: 252850

Client Sample ID: 0717-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.6		10.0	13.7		mg/L		112	85 - 115

Lab Sample ID: 580-70247-8 MSD
Matrix: Water
Analysis Batch: 252850

Client Sample ID: 0717-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.6		10.0	13.8		mg/L		112	85 - 115	1	20

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-70247-8 DU
Matrix: Water
Analysis Batch: 252850

Client Sample ID: 0717-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	2.6			2.50		mg/L				3	20

Client Sample ID: 0717-08

Date Collected: 07/27/17 10:43
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 11:57	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:27	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 13:26	MMM	TAL SEA
Total/NA	Analysis	300.0		10	252844	08/02/17 16:52	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252911	08/03/17 13:56	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-09

Date Collected: 07/27/17 12:20
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:22	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:31	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 13:39	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252911	08/03/17 14:01	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-12

Date Collected: 07/27/17 13:42
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:25	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70247-1

Client Sample ID: 0717-12

Date Collected: 07/27/17 13:42
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:36	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 13:52	MMM	TAL SEA
Total/NA	Analysis	300.0		10	252844	08/02/17 17:05	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		20	252911	08/03/17 14:02	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-25

Date Collected: 07/27/17 18:13
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:29	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:40	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 14:05	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252911	08/03/17 14:03	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-13

Date Collected: 07/27/17 19:10
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:32	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:45	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 14:18	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA

Client Sample ID: 0717-13

Lab Sample ID: 580-70247-8

Date Collected: 07/27/17 19:10

Matrix: Water

Date Received: 07/31/17 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252911	08/03/17 14:07	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-26

Lab Sample ID: 580-70247-10

Date Collected: 07/28/17 11:08

Matrix: Water

Date Received: 07/31/17 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			252998	08/04/17 15:10	MRG	TAL SEA
Total/NA	Analysis	8151A		1	253708	08/15/17 10:51	ERB	TAL SEA
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:35	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:49	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 15:22	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		10	252911	08/03/17 14:08	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-18

Lab Sample ID: 580-70247-11

Date Collected: 07/28/17 12:18

Matrix: Water

Date Received: 07/31/17 13:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:39	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:54	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 15:35	MMM	TAL SEA
Total/NA	Analysis	300.0		10	252844	08/02/17 17:18	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70247-1

Client Sample ID: 0717-18

Date Collected: 07/28/17 12:18
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		5	252911	08/03/17 14:09	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 12:40	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Client Sample ID: 0717-17

Date Collected: 07/28/17 13:28
Date Received: 07/31/17 13:45

Lab Sample ID: 580-70247-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252931	08/03/17 12:42	HJM	TAL SEA
Total Recoverable	Prep	3005A			252750	08/02/17 09:03	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252830	08/02/17 17:58	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252844	08/02/17 15:48	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			253479	08/11/17 10:52	EMM	TAL SEA
Total/NA	Analysis	350.1		1	253510	08/11/17 15:04	EMM	TAL SEA
Total/NA	Analysis	353.2		2	252911	08/03/17 14:10	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	253256	08/09/17 15:54	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252753	08/02/17 09:30	EMM	TAL SEA
Total/NA	Prep	SM 5220			252769	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	252807	08/02/17 10:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	252850	08/02/17 20:56	J1Y	TAL SEA

Laboratory References:

SC0053 = OnSite Environmental Inc, 14648 NE 95th Street, Redmond, WA 98052

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70247-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70247-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-70247-1	0717-08	Water	07/27/17 10:43	07/31/17 13:45
580-70247-2	0717-09	Water	07/27/17 12:20	07/31/17 13:45
580-70247-3	0717-12	Water	07/27/17 13:42	07/31/17 13:45
580-70247-4	0717-95	Water	07/27/17 15:00	07/31/17 13:45
580-70247-5	0717-98	Water	07/27/17 16:10	07/31/17 13:45
580-70247-6	0717-96	Water	07/27/17 17:12	07/31/17 13:45
580-70247-7	0717-25	Water	07/27/17 18:13	07/31/17 13:45
580-70247-8	0717-13	Water	07/27/17 19:10	07/31/17 13:45
580-70247-9	0717-99	Water	07/28/17 10:18	07/31/17 13:45
580-70247-10	0717-26	Water	07/28/17 11:08	07/31/17 13:45
580-70247-11	0717-18	Water	07/28/17 12:18	07/31/17 13:45
580-70247-12	0717-17	Water	07/28/17 13:28	07/31/17 13:45
580-70247-13	Trip Blank	Water	07/28/17 00:01	07/31/17 13:45

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 10, 2017

Cathy Gamble
Test America
5755 8th Street East
Tacoma, WA 98424

Re: Analytical Data for Project 58009563
Laboratory Reference No. 1708-032

Dear Cathy:

Enclosed are the analytical results and associated quality control data for samples submitted on August 2, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

Case Narrative

Samples were collected on July 27 and 28, 2017 and received by the laboratory on August 2, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-08**					
Laboratory ID:	08-032-01					
Dichlorodifluoromethane	1.1	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-08**					
Laboratory ID:	08-032-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*90*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-09**					
Laboratory ID:	08-032-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-09**					
Laboratory ID:	08-032-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*90*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-12**					
Laboratory ID:	08-032-03					
Dichlorodifluoromethane	22	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	4.6	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	0.49	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-12**					
Laboratory ID:	08-032-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*77-129*				
Toluene-d8	*90*	*80-127*				
4-Bromofluorobenzene	*87*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-95**					
Laboratory ID:	08-032-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-95**					
Laboratory ID:	08-032-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*77-129*				
Toluene-d8	*93*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-98**					
Laboratory ID:	08-032-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-98**					
Laboratory ID:	08-032-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-96**					
Laboratory ID:	08-032-06					
Dichlorodifluoromethane	0.21	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	0.058	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	0.21	0.20	EPA 8260C	8-4-17	8-4-17	Y
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Laboratory Reference: 1708-032
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-96**					
Laboratory ID:	08-032-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-25**					
Laboratory ID:	08-032-07					
Dichlorodifluoromethane	5.5	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	0.20	0.20	EPA 8260C	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-25**					
Laboratory ID:	08-032-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-13**					
Laboratory ID:	08-032-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-13**					
Laboratory ID:	08-032-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*77-129*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*93*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-99**					
Laboratory ID:	08-032-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Date of Report: August 10, 2017
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Laboratory Reference: 1708-032
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-99**					
Laboratory ID:	08-032-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-26**					
Laboratory ID:	08-032-10					
Dichlorodifluoromethane	5.4	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	1.9	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	0.33	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-26**					
Laboratory ID:	08-032-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*77-129*				
Toluene-d8	*94*	*80-127*				
4-Bromofluorobenzene	*90*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-18**					
Laboratory ID:	08-032-11					
Dichlorodifluoromethane	28	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	0.026	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	3.3	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	0.63	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	0.68	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Samples Submitted: August 2, 2017
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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-18**					
Laboratory ID:	08-032-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*77-129*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*92*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-17**					
Laboratory ID:	08-032-12					
Dichlorodifluoromethane	7.8	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	0.040	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	0.48	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Date of Report: August 10, 2017
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Laboratory Reference: 1708-032
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-17**					
Laboratory ID:	08-032-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*77-129*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*91*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-032-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	08-032-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*77-129*				
Toluene-d8	*95*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0804W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloromethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-4-17	8-4-17	
Bromomethane	ND	0.62	EPA 8260C	8-4-17	8-4-17	
Chloroethane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Acetone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Iodomethane	ND	5.2	EPA 8260C	8-4-17	8-4-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-4-17	8-4-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Butanone	ND	5.0	EPA 8260C	8-4-17	8-4-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chloroform	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Benzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Trichloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Dibromomethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Toluene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-4-17	8-4-17	

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Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0804W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Hexanone	ND	2.0	EPA 8260C	8-4-17	8-4-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-4-17	8-4-17	
o-Xylene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Styrene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromoform	ND	1.0	EPA 8260C	8-4-17	8-4-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Bromobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,4-Trichlorobenzene	ND	0.26	EPA 8260C	8-4-17	8-4-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-4-17	8-4-17	
Naphthalene	ND	1.0	EPA 8260C	8-4-17	8-4-17	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260C	8-4-17	8-4-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2017
Samples Submitted: August 2, 2017
Laboratory Reference: 1708-032
Project: 58009563

VOLATILES EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0804W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**8.33**	**8.81**	10.0	10.0	83	88	63-127	6	17	
Benzene	**8.83**	**9.82**	10.0	10.0	88	98	76-121	11	12	
Trichloroethene	**7.57**	**7.97**	10.0	10.0	76	80	64-120	5	15	
Toluene	**8.67**	**9.61**	10.0	10.0	87	96	82-120	10	13	
Chlorobenzene	**8.14**	**9.21**	10.0	10.0	81	92	80-120	12	14	
Surrogate:										
Dibromofluoromethane					*101*	*100*	*77-129*			
Toluene-d8					*96*	*96*	*80-127*			
4-Bromofluorobenzene					*96*	*97*	*78-125*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C/SIM, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

08-032

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-48595.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 1 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-70247-1
Address: 14648 NE 95th Street,	Due Date Requested: 8/10/2017			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8260_LL (Vinyl Chloride only)/ 8260_LL (Vinyl Chloride only)_ Full List VOCs	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	0717-08	7/27/17	10:43 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
2	0717-09	7/27/17	12:20 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
3	0717-12	7/27/17	13:42 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
4	0717-95	7/27/17	15:00 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
5	0717-98	7/27/17	16:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
6	0717-96	7/27/17	17:12 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
7	0717-25	7/27/17	18:13 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
8	0717-13	7/27/17	19:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
9	0717-99	7/28/17	10:18 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8/2/17 1345	TASEA	[signature]	8/2/17 1345	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/14/2017 (Rev. 1)

08-032

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-48595.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 2 of 2
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-70247-1
Address: 14648 NE 95th Street, ,	Due Date Requested: 8/10/2017			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8260_LL (~~Vinyl Chloride only~~)/ 8260_LL (Vinyl Chloride only) Full list VOCs	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
10	0717-26	7/28/17	11:08 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
11	0717-18	7/28/17	12:18 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
12	0717-17	7/28/17	13:28 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
13	Trip Blank	7/28/17	00:01 Pacific		Water			X	3	Must meet an RL of 0.02 ug/L

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/2/17 1345	Company TA-SEA	Received by:	Date/Time: 8/2/17 1345	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/14/2017 (Rev. 1)

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Loc: 580
70247

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Mr. Sam Graber
Company: SCS Engineers
Address: 2405 140th Avenue NE Suite 107
City: Bellevue
State, Zip: WA, 98005-1877
Phone: 425-289-5455(Tel)
Email: SGraber@scsengineers.com
Project Name: Coupeville Solid Waste Facility Groundwa
Site:

Sampler: Sam Graber
Phone: 612 940 2980
Lab PM: Gamble, Cathy L
E-Mail: cathy.gamble@testamericainc.com
Carrier Tracking No(s):
COC No: 580-25236-8338.1
Page: Page 1 of 7
Job #: 04207033.10
Due Date Requested: Standard
TAT Requested (days):
PO #: Purchase Order not required
WO #:
Project #: 58009563
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D, 300_ORGFM_28D	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1, 353.2, 5220D	SM5310_TOC_B - Local Method	2540C - Local Method	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	N	A	N		
0717-08	7/27/17	1043	G	Water	Y	N	X	X	X	X	X	X	X		9	* acid in 0717-12
0717-09		1220		Water	Y		X	X	X	X	X	X	X		9	HCL vom with "x"
0717-12*		1342		Water	Y		X	X	X	X	X	X	X		9	had yellow colored
0717-95		1500		Water	N								X		3	acid.
0717-98		1610		Water	N								X		3	** Olive VOA bottle
0717-96		1712		Water	N								X		3	From 0717-99
0717-25		1913		Water	Y		X	X	X	X	X	X	X		9	sample.
0717-13		1910		Water	Y		X	X	X	X	X	X	X		9	
0717-99**	7/28/17	1018		Water	N								X		2	
0717-26		1108		Water	Y		X	X	X	X	X	X	X	X	11	
0717-18		1218		Water	Y		X	X	X	X	X	X	X		9	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

Relinquished by: [signature]
Date/Time: 7/31/17 1345
Company
Received by: [signature]
Date/Time: 7/31/17 1345
Company TA-SEA

TB A2 Cooler Cor 1.0 Unc 1.8
Cooler Dsc Lt Blue @Lab 1645
Wet/Packs Packing Bubble
n/a

TB A2 Cooler Cor 0.9 Unc 1.7
Cooler Dsc Lt Blue @Lab 1645
Wet/Packs Packing Bubble
n/a

TB A2 Cooler Cor 0.7 Unc 1.5
Cooler Dsc Lt brown @Lab 1645
Wet/Packs Packing Bubble
n/a

estAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-25236-8338.4
Client Contact: Mr. Sam Graber	Phone: 612 940 2990	E-Mail: cathy.gamble@testamericainc.com		Page: Page 4 of 7
Company: SCS Engineers				Job #: 04207033.10
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877				
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D, 300_ORGFM_28D	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1, 353.2, 5220D	SM5310_TOC_B - Local Method	2540C - Local Method	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	D	S	S	N	A	N		
0717-17	7/28/17	1328	G	Water	Y	N	X	X	X	X	X	X	X		9	
Trip blank	↓	–	–	Water	N	N							X		2	
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		7/31/17 1345			7/31/17 1345	TASEA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

9/14/2017 (Rev. 1)

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-70247-1

Login Number: 70247
List Number: 1
Creator: Gall, Brandon A

List Source: TestAmerica Seattle

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-70142-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
9/13/2017 2:42:12 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 580-70142-1

Laboratory: TestAmerica Seattle

Narrative

Revised Report: Results must be reported to the RL.

Receipt
The samples were received on 7/25/2017 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 5.2º C.

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

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

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

Subcontract Work
Method Volatiles, custom list, low level: This method was subcontracted to OnSite Environmental Inc. The subcontract laboratory certification is different from that of the facility issuing the final report.

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client Sample ID: 0717-06
Date Collected: 07/24/17 11:45
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-1
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		07/27/17 09:12	07/28/17 10:38	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 10:38	1
Magnesium	**36**		1.1		mg/L		07/27/17 09:12	07/28/17 10:38	1
Manganese	ND		0.020		mg/L		07/27/17 09:12	07/28/17 10:38	1
Potassium	**5.6**		3.3		mg/L		07/27/17 09:12	07/28/17 10:38	1
Sodium	**18**		2.0		mg/L		07/27/17 09:12	07/28/17 10:38	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Arsenic	**0.0029**		0.0010		mg/L		07/27/17 09:12	07/28/17 14:45	1
Barium	**0.032**		0.0012		mg/L		07/27/17 09:12	07/28/17 14:45	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Chromium	**0.0042**		0.00040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Copper	**0.0034**		0.0020		mg/L		07/27/17 09:12	07/28/17 14:45	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 14:45	1
Nickel	**0.0052**		0.0030		mg/L		07/27/17 09:12	07/28/17 14:45	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 14:45	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 14:45	1
Vanadium	**0.0053**		0.0040		mg/L		07/27/17 09:12	07/28/17 14:45	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 12:20	1
Chloride	**18**		0.90		mg/L			07/26/17 12:20	1
Sulfate	**67**		1.2		mg/L			07/26/17 12:20	1
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	**5.7**	**F1**	0.75		mg/L			07/26/17 13:56	5
Total Organic Carbon	**2.3**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**540**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	**16**		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Client Sample ID: 0717-07
Date Collected: 07/24/17 13:10
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-2
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**63**		1.1		mg/L		07/27/17 09:12	07/28/17 11:03	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 11:03	1
Magnesium	**37**		1.1		mg/L		07/27/17 09:12	07/28/17 11:03	1
Manganese	ND		0.020		mg/L		07/27/17 09:12	07/28/17 11:03	1
Potassium	**6.3**		3.3		mg/L		07/27/17 09:12	07/28/17 11:03	1
Sodium	**27**		2.0		mg/L		07/27/17 09:12	07/28/17 11:03	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Arsenic	**0.0083**		0.0010		mg/L		07/27/17 09:12	07/28/17 14:49	1
Barium	**0.019**		0.0012		mg/L		07/27/17 09:12	07/28/17 14:49	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Chromium	**0.00054**		0.00040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Copper	ND		0.0020		mg/L		07/27/17 09:12	07/28/17 14:49	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 14:49	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 14:49	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 14:49	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 14:49	1
Vanadium	ND		0.0040		mg/L		07/27/17 09:12	07/28/17 14:49	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 13:04	1
Chloride	**33**		0.90		mg/L			07/26/17 13:04	1
Sulfate	**34**		1.2		mg/L			07/26/17 13:04	1
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/26/17 14:01	1
Total Organic Carbon	**1.9**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**410**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	**15**		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Client Sample ID: 0717-21

Date Collected: 07/24/17 14:45
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-3

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		07/27/17 09:12	07/28/17 11:06	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 11:06	1
Magnesium	**50**		1.1		mg/L		07/27/17 09:12	07/28/17 11:06	1
Manganese	ND		0.020		mg/L		07/27/17 09:12	07/28/17 11:06	1
Potassium	**6.3**		3.3		mg/L		07/27/17 09:12	07/28/17 11:06	1
Sodium	**29**		2.0		mg/L		07/27/17 09:12	07/28/17 11:06	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Arsenic	**0.0028**		0.0010		mg/L		07/27/17 09:12	07/28/17 14:54	1
Barium	**0.032**		0.0012		mg/L		07/27/17 09:12	07/28/17 14:54	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Chromium	**0.010**		0.00040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Copper	ND		0.0020		mg/L		07/27/17 09:12	07/28/17 14:54	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 14:54	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 14:54	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 14:54	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 14:54	1
Vanadium	**0.0054**		0.0040		mg/L		07/27/17 09:12	07/28/17 14:54	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 13:19	1
Chloride	**35**		0.90		mg/L			07/26/17 13:19	1
Sulfate	**42**		1.2		mg/L			07/26/17 13:19	1
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	**6.1**		0.75		mg/L			07/26/17 14:02	5
Total Organic Carbon	**2.3**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**440**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**440**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**650**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	ND		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Client Sample ID: 0717-20
Date Collected: 07/24/17 15:37
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-4
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**73**		1.1		mg/L		07/27/17 09:12	07/28/17 11:10	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 11:10	1
Magnesium	**27**		1.1		mg/L		07/27/17 09:12	07/28/17 11:10	1
Manganese	**0.027**		0.020		mg/L		07/27/17 09:12	07/28/17 11:10	1
Potassium	**6.2**		3.3		mg/L		07/27/17 09:12	07/28/17 11:10	1
Sodium	**21**		2.0		mg/L		07/27/17 09:12	07/28/17 11:10	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Arsenic	**0.0077**		0.0010		mg/L		07/27/17 09:12	07/28/17 14:58	1
Barium	**0.027**		0.0012		mg/L		07/27/17 09:12	07/28/17 14:58	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Chromium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Copper	ND		0.0020		mg/L		07/27/17 09:12	07/28/17 14:58	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 14:58	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 14:58	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 14:58	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 14:58	1
Vanadium	ND		0.0040		mg/L		07/27/17 09:12	07/28/17 14:58	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 13:34	1
Chloride	**34**		0.90		mg/L			07/26/17 13:34	1
Sulfate	**23**		1.2		mg/L			07/26/17 13:34	1
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/26/17 14:03	1
Total Organic Carbon	**1.5**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**400**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	ND		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Client Sample ID: 0717-24
Date Collected: 07/24/17 16:25
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-5
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**38**		1.1		mg/L		07/27/17 09:12	07/28/17 11:13	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 11:13	1
Magnesium	**57**		1.1		mg/L		07/27/17 09:12	07/28/17 11:13	1
Manganese	ND		0.020		mg/L		07/27/17 09:12	07/28/17 11:13	1
Potassium	**11**		3.3		mg/L		07/27/17 09:12	07/28/17 11:13	1
Sodium	**28**		2.0		mg/L		07/27/17 09:12	07/28/17 11:13	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Arsenic	**0.0060**		0.0010		mg/L		07/27/17 09:12	07/28/17 15:02	1
Barium	**0.032**		0.0012		mg/L		07/27/17 09:12	07/28/17 15:02	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Chromium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Copper	**0.0031**		0.0020		mg/L		07/27/17 09:12	07/28/17 15:02	1
Lead	**0.0021**		0.00080		mg/L		07/27/17 09:12	07/28/17 15:02	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 15:02	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 15:02	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 15:02	1
Vanadium	ND		0.0040		mg/L		07/27/17 09:12	07/28/17 15:02	1
Zinc	**0.16**		0.0070		mg/L		07/27/17 09:12	07/28/17 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 13:48	1
Chloride	**40**		0.90		mg/L			07/26/17 13:48	1
Sulfate	**17**		1.2		mg/L			07/26/17 13:48	1
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	**0.38**		0.15		mg/L			07/26/17 14:07	1
Total Organic Carbon	**2.6**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**420**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	ND		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Client Sample ID: 0717-11
Date Collected: 07/24/17 17:40
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-6
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**80**		1.1		mg/L		07/27/17 09:12	07/28/17 11:16	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 11:16	1
Magnesium	**55**		1.1		mg/L		07/27/17 09:12	07/28/17 11:16	1
Manganese	**0.21**		0.020		mg/L		07/27/17 09:12	07/28/17 11:16	1
Potassium	**6.9**		3.3		mg/L		07/27/17 09:12	07/28/17 11:16	1
Sodium	**35**		2.0		mg/L		07/27/17 09:12	07/28/17 11:16	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Arsenic	**0.0057**		0.0010		mg/L		07/27/17 09:12	07/28/17 15:07	1
Barium	**0.031**		0.0012		mg/L		07/27/17 09:12	07/28/17 15:07	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Chromium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Copper	ND		0.0020		mg/L		07/27/17 09:12	07/28/17 15:07	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 15:07	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 15:07	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 15:07	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 15:07	1
Vanadium	ND		0.0040		mg/L		07/27/17 09:12	07/28/17 15:07	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 14:03	1
Chloride	**55**		0.90		mg/L			07/26/17 14:03	1
Sulfate	**28**		1.2		mg/L			07/26/17 14:03	1
Ammonia	**0.21**		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/26/17 14:08	1
Total Organic Carbon	**3.1**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**540**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	**11**		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Client Sample ID: 0717-10
Date Collected: 07/24/17 18:35
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-7
Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		07/27/17 09:12	07/28/17 11:20	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 11:20	1
Magnesium	**55**		1.1		mg/L		07/27/17 09:12	07/28/17 11:20	1
Manganese	**0.16**		0.020		mg/L		07/27/17 09:12	07/28/17 11:20	1
Potassium	**7.6**		3.3		mg/L		07/27/17 09:12	07/28/17 11:20	1
Sodium	**35**		2.0		mg/L		07/27/17 09:12	07/28/17 11:20	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Arsenic	**0.0081**		0.0010		mg/L		07/27/17 09:12	07/28/17 15:11	1
Barium	**0.042**		0.0012		mg/L		07/27/17 09:12	07/28/17 15:11	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Chromium	**0.00058**		0.00040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Copper	ND		0.0020		mg/L		07/27/17 09:12	07/28/17 15:11	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 15:11	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 15:11	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 15:11	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 15:11	1
Vanadium	ND		0.0040		mg/L		07/27/17 09:12	07/28/17 15:11	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 14:18	1
Chloride	**68**		0.90		mg/L			07/26/17 14:18	1
Sulfate	**29**		1.2		mg/L			07/26/17 14:18	1
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1
Nitrate Nitrite as N	ND		0.15		mg/L			07/26/17 14:09	1
Total Organic Carbon	**3.1**		1.0		mg/L			07/26/17 18:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			07/28/17 13:41	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			07/28/17 13:41	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			07/28/17 13:41	1
Total Dissolved Solids	**530**		10		mg/L			07/27/17 14:24	1
Chemical Oxygen Demand	**11**		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-252266/18-A
Matrix: Water
Analysis Batch: 252437

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		07/27/17 09:12	07/28/17 10:29	1
Iron	ND		0.30		mg/L		07/27/17 09:12	07/28/17 10:29	1
Magnesium	ND		1.1		mg/L		07/27/17 09:12	07/28/17 10:29	1
Manganese	ND		0.020		mg/L		07/27/17 09:12	07/28/17 10:29	1
Potassium	ND		3.3		mg/L		07/27/17 09:12	07/28/17 10:29	1
Sodium	ND		2.0		mg/L		07/27/17 09:12	07/28/17 10:29	1

Lab Sample ID: LCS 580-252266/19-A
Matrix: Water
Analysis Batch: 252437

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.3		mg/L		102	80 - 120
Iron	22.0	22.2		mg/L		101	80 - 120
Magnesium	20.0	20.4		mg/L		102	80 - 120
Manganese	1.00	1.03		mg/L		103	80 - 120
Potassium	20.0	20.3		mg/L		101	80 - 120
Sodium	20.0	20.3		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-252266/20-A
Matrix: Water
Analysis Batch: 252437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.5		mg/L		102	80 - 120	1	20
Iron	22.0	22.3		mg/L		101	80 - 120	0	20
Magnesium	20.0	20.4		mg/L		102	80 - 120	0	20
Manganese	1.00	1.04		mg/L		104	80 - 120	1	20
Potassium	20.0	20.5		mg/L		102	80 - 120	1	20
Sodium	20.0	20.2		mg/L		101	80 - 120	0	20

Lab Sample ID: 580-70142-1 MS
Matrix: Water
Analysis Batch: 252437

Client Sample ID: 0717-06
Prep Type: Dissolved
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	110		20.0	130	4	mg/L		108	75 - 125
Iron	ND		22.0	22.2		mg/L		101	75 - 125
Magnesium	36		20.0	57.2		mg/L		107	75 - 125
Manganese	ND		1.00	1.03		mg/L		103	75 - 125
Potassium	5.6		20.0	26.6		mg/L		105	75 - 125
Sodium	18		20.0	38.5		mg/L		104	75 - 125

Lab Sample ID: 580-70142-1 MSD
Matrix: Water
Analysis Batch: 252437

Client Sample ID: 0717-06
Prep Type: Dissolved
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	110		20.0	126	4	mg/L		89	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-70142-1 MSD
Matrix: Water
Analysis Batch: 252437

Client Sample ID: 0717-06
Prep Type: Dissolved
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		22.0	21.4		mg/L		97	75 - 125	3	20
Magnesium	36		20.0	55.1		mg/L		97	75 - 125	4	20
Manganese	ND		1.00	1.01		mg/L		101	75 - 125	3	20
Potassium	5.6		20.0	25.9		mg/L		101	75 - 125	3	20
Sodium	18		20.0	37.3		mg/L		97	75 - 125	3	20

Lab Sample ID: 580-70142-1 DU
Matrix: Water
Analysis Batch: 252437

Client Sample ID: 0717-06
Prep Type: Dissolved
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	110		108		mg/L		0.2	20
Iron	ND		ND		mg/L		NC	20
Magnesium	36		36.3		mg/L		1	20
Manganese	ND		ND		mg/L		NC	20
Potassium	5.6		5.53		mg/L		1	20
Sodium	18		17.9		mg/L		0.4	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-252266/18-A
Matrix: Water
Analysis Batch: 252509

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Arsenic	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 13:51	1
Barium	ND		0.0012		mg/L		07/27/17 09:12	07/28/17 13:51	1
Beryllium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Cadmium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Chromium	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Cobalt	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Copper	ND		0.0020		mg/L		07/27/17 09:12	07/28/17 13:51	1
Lead	ND		0.00080		mg/L		07/27/17 09:12	07/28/17 13:51	1
Nickel	ND		0.0030		mg/L		07/27/17 09:12	07/28/17 13:51	1
Selenium	ND		0.0080		mg/L		07/27/17 09:12	07/28/17 13:51	1
Silver	ND		0.00040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Thallium	ND		0.0010		mg/L		07/27/17 09:12	07/28/17 13:51	1
Vanadium	ND		0.0040		mg/L		07/27/17 09:12	07/28/17 13:51	1
Zinc	ND		0.0070		mg/L		07/27/17 09:12	07/28/17 13:51	1

Lab Sample ID: LCS 580-252266/19-A
Matrix: Water
Analysis Batch: 252509

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.94		mg/L		98	80 - 120
Arsenic	4.00	3.95		mg/L		99	80 - 120
Barium	4.00	3.86		mg/L		97	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-252266/19-A
Matrix: Water
Analysis Batch: 252509

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.100	0.103		mg/L		103	80 - 120
Cadmium	0.100	0.104		mg/L		104	80 - 120
Chromium	0.400	0.399		mg/L		100	80 - 120
Cobalt	1.00	0.939		mg/L		94	80 - 120
Copper	0.500	0.483		mg/L		97	80 - 120
Lead	1.00	0.976		mg/L		98	80 - 120
Nickel	1.00	0.975		mg/L		97	80 - 120
Selenium	4.00	3.83		mg/L		96	80 - 120
Silver	0.600	0.611		mg/L		102	80 - 120
Thallium	4.00	3.81		mg/L		95	80 - 120
Vanadium	1.00	0.975		mg/L		98	80 - 120
Zinc	4.00	3.91		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-252266/20-A
Matrix: Water
Analysis Batch: 252509

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.91		mg/L		97	80 - 120	1	20
Arsenic	4.00	3.94		mg/L		98	80 - 120	0	20
Barium	4.00	3.86		mg/L		97	80 - 120	0	20
Beryllium	0.100	0.106		mg/L		106	80 - 120	3	20
Cadmium	0.100	0.102		mg/L		102	80 - 120	2	20
Chromium	0.400	0.387		mg/L		97	80 - 120	3	20
Cobalt	1.00	0.925		mg/L		93	80 - 120	1	20
Copper	0.500	0.480		mg/L		96	80 - 120	1	20
Lead	1.00	0.983		mg/L		98	80 - 120	1	20
Nickel	1.00	0.969		mg/L		97	80 - 120	1	20
Selenium	4.00	3.81		mg/L		95	80 - 120	1	20
Silver	0.600	0.606		mg/L		101	80 - 120	1	20
Thallium	4.00	3.80		mg/L		95	80 - 120	0	20
Vanadium	1.00	0.959		mg/L		96	80 - 120	2	20
Zinc	4.00	3.91		mg/L		98	80 - 120	0	20

Lab Sample ID: 580-70142-1 MS
Matrix: Water
Analysis Batch: 252509

Client Sample ID: 0717-06
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.00		mg/L		100	80 - 120
Arsenic	0.0028		4.00	3.97		mg/L		99	80 - 120
Barium	0.031		4.00	3.92		mg/L		97	80 - 120
Beryllium	ND		0.100	0.104		mg/L		104	80 - 120
Cadmium	ND		0.100	0.104		mg/L		104	80 - 120
Chromium	0.0041		0.400	0.406		mg/L		100	80 - 120
Cobalt	ND		1.00	0.946		mg/L		95	80 - 120
Copper	0.0032		0.500	0.483		mg/L		96	80 - 120
Lead	ND		1.00	1.02		mg/L		102	80 - 120
Nickel	0.0048		1.00	0.987		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-70142-1 MS
Matrix: Water
Analysis Batch: 252509

Client Sample ID: 0717-06
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		4.00	3.84		mg/L		96	80 - 120
Silver	ND		0.600	0.603		mg/L		100	80 - 120
Thallium	ND		4.00	4.00		mg/L		100	80 - 120
Vanadium	0.0052		1.00	0.984		mg/L		98	80 - 120
Zinc	ND		4.00	3.92		mg/L		98	80 - 120

Lab Sample ID: 580-70142-1 MSD
Matrix: Water
Analysis Batch: 252509

Client Sample ID: 0717-06
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.01		mg/L		100	80 - 120	0	20
Arsenic	0.0028		4.00	3.98		mg/L		99	80 - 120	0	20
Barium	0.031		4.00	3.91		mg/L		97	80 - 120	0	20
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120	1	20
Cadmium	ND		0.100	0.101		mg/L		101	80 - 120	3	20
Chromium	0.0041		0.400	0.407		mg/L		101	80 - 120	0	20
Cobalt	ND		1.00	0.959		mg/L		96	80 - 120	1	20
Copper	0.0032		0.500	0.488		mg/L		97	80 - 120	1	20
Lead	ND		1.00	1.01		mg/L		101	80 - 120	1	20
Nickel	0.0048		1.00	0.983		mg/L		98	80 - 120	0	20
Selenium	ND		4.00	3.90		mg/L		98	80 - 120	1	20
Silver	ND		0.600	0.601		mg/L		100	80 - 120	0	20
Thallium	ND		4.00	3.93		mg/L		98	80 - 120	2	20
Vanadium	0.0052		1.00	0.975		mg/L		97	80 - 120	1	20
Zinc	ND		4.00	3.97		mg/L		99	80 - 120	1	20

Lab Sample ID: 580-70142-1 DU
Matrix: Water
Analysis Batch: 252509

Client Sample ID: 0717-06
Prep Type: Total Recoverable
Prep Batch: 252266

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0028		0.00278		mg/L		1	20
Barium	0.031		0.0295		mg/L		5	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.0041		0.00410		mg/L		0.4	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0032		0.00318		mg/L		0.5	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0048		0.00485		mg/L		0.4	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	0.0052		0.00497		mg/L		5	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-252222/3
Matrix: Water
Analysis Batch: 252222

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			07/26/17 11:36	1
Chloride	ND		0.90		mg/L			07/26/17 11:36	1
Sulfate	ND		1.2		mg/L			07/26/17 11:36	1

Lab Sample ID: LCS 580-252222/4
Matrix: Water
Analysis Batch: 252222

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.86		mg/L		97	90 - 110
Chloride	50.0	48.8		mg/L		98	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: LCSD 580-252222/5
Matrix: Water
Analysis Batch: 252222

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.87		mg/L		97	90 - 110	0	15
Chloride	50.0	48.8		mg/L		98	90 - 110	0	15
Sulfate	50.0	48.8		mg/L		98	90 - 110	0	15

Lab Sample ID: 580-70142-1 MS
Matrix: Water
Analysis Batch: 252222

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	5.09		mg/L		102	90 - 110
Chloride	18		50.0	70.3		mg/L		105	90 - 110
Sulfate	67		50.0	115		mg/L		97	90 - 110

Lab Sample ID: 580-70142-1 MSD
Matrix: Water
Analysis Batch: 252222

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.13		mg/L		103	90 - 110	1	15
Chloride	18		50.0	70.5		mg/L		105	90 - 110	0	15
Sulfate	67		50.0	116		mg/L		98	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-252649/1-A
Matrix: Water
Analysis Batch: 252686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		08/01/17 11:21	08/01/17 14:56	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-252649/2-A
Matrix: Water
Analysis Batch: 252686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	2.06		mg/L		103	90 - 110		

Lab Sample ID: 580-70142-1 MS
Matrix: Water
Analysis Batch: 252686

Client Sample ID: 0717-06
Prep Type: Total/NA
Prep Batch: 252649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND		2.00	2.02		mg/L		93	90 - 110		

Lab Sample ID: 580-70142-1 MSD
Matrix: Water
Analysis Batch: 252686

Client Sample ID: 0717-06
Prep Type: Total/NA
Prep Batch: 252649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND		2.00	1.95		mg/L		90	90 - 110	4	20

Lab Sample ID: 580-70142-1 DU
Matrix: Water
Analysis Batch: 252686

Client Sample ID: 0717-06
Prep Type: Total/NA
Prep Batch: 252649

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-252204/12
Matrix: Water
Analysis Batch: 252204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			07/26/17 13:53	1

Lab Sample ID: LCS 580-252204/13
Matrix: Water
Analysis Batch: 252204

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	0.967		mg/L		97	90 - 110		

Lab Sample ID: LCSD 580-252204/14
Matrix: Water
Analysis Batch: 252204

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.968		mg/L		97	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-70142-1 MS
Matrix: Water
Analysis Batch: 252204

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	5.7	F1	2.50	6.69	F1	mg/L		41	90 - 110

Lab Sample ID: 580-70142-1 MSD
Matrix: Water
Analysis Batch: 252204

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	5.7	F1	2.50	6.85	F1	mg/L		47	90 - 110	2	20

Lab Sample ID: 580-70142-1 DU
Matrix: Water
Analysis Batch: 252204

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	5.7	F1	5.63		mg/L		0.5	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-252401/2
Matrix: Water
Analysis Batch: 252401

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	104		mg/L		104	85 - 115

Lab Sample ID: 580-70142-1 DU
Matrix: Water
Analysis Batch: 252401

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	330		324		mg/L		2	17
Bicarbonate Alkalinity as CaCO3	330		324		mg/L		2	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-252317/1
Matrix: Water
Analysis Batch: 252317

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			07/27/17 14:24	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-252317/2
Matrix: Water
Analysis Batch: 252317

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1060		mg/L		106	80 - 120

Lab Sample ID: 580-70142-1 DU
Matrix: Water
Analysis Batch: 252317

Client Sample ID: 0717-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	540		532		mg/L		2	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-252203/3-A
Matrix: Water
Analysis Batch: 252205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252203

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		07/26/17 13:00	07/26/17 13:00	1

Lab Sample ID: LCS 580-252203/4-A
Matrix: Water
Analysis Batch: 252205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	77.2		mg/L		103	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-252277/21
Matrix: Water
Analysis Batch: 252277

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/26/17 18:49	1

Lab Sample ID: MB 580-252277/3
Matrix: Water
Analysis Batch: 252277

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			07/26/17 18:49	1

Lab Sample ID: LCS 580-252277/22
Matrix: Water
Analysis Batch: 252277

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.5		mg/L		105	85 - 115

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-252277/4
Matrix: Water
Analysis Batch: 252277

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.4		mg/L		104	85 - 115

Client Sample ID: 0717-06

Date Collected: 07/24/17 11:45
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 10:38	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 14:45	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252222	07/26/17 12:20	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		5	252204	07/26/17 13:56	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Client Sample ID: 0717-07

Date Collected: 07/24/17 13:10
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 11:03	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 14:49	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252222	07/26/17 13:04	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252204	07/26/17 14:01	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Client Sample ID: 0717-21

Date Collected: 07/24/17 14:45
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 11:06	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 14:54	FCW	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Client Sample ID: 0717-21
Date Collected: 07/24/17 14:45
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	252222	07/26/17 13:19	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		5	252204	07/26/17 14:02	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Client Sample ID: 0717-20
Date Collected: 07/24/17 15:37
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 11:10	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 14:58	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252222	07/26/17 13:34	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252204	07/26/17 14:03	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Client Sample ID: 0717-24
Date Collected: 07/24/17 16:25
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 11:13	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 15:02	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252222	07/26/17 13:48	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252204	07/26/17 14:07	MMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Client Sample ID: 0717-24
Date Collected: 07/24/17 16:25
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Client Sample ID: 0717-11
Date Collected: 07/24/17 17:40
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 11:16	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 15:07	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252222	07/26/17 14:03	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252204	07/26/17 14:08	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Client Sample ID: 0717-10
Date Collected: 07/24/17 18:35
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Dissolved	Analysis	6010C		1	252437	07/28/17 11:20	HJM	TAL SEA
Total Recoverable	Prep	3005A			252266	07/27/17 09:12	ADB	TAL SEA
Total Recoverable	Analysis	6020A		1	252509	07/28/17 15:11	FCW	TAL SEA
Total/NA	Analysis	300.0		1	252222	07/26/17 14:18	J1Y	TAL SEA
Total/NA	Prep	Distill/Ammonia			252649	08/01/17 11:21	EMM	TAL SEA
Total/NA	Analysis	350.1		1	252686	08/01/17 14:56	EMM	TAL SEA
Total/NA	Analysis	353.2		1	252204	07/26/17 14:09	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	252401	07/28/17 13:41	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	252317	07/27/17 14:24	EMM	TAL SEA
Total/NA	Prep	SM 5220			252203	07/26/17 13:00	Z1T	TAL SEA
Total/NA	Analysis	SM 5220D		1	252205	07/26/17 13:00	Z1T	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Client Sample ID: 0717-10
Date Collected: 07/24/17 18:35
Date Received: 07/25/17 16:30

Lab Sample ID: 580-70142-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310B		1	252277	07/26/17 18:49	Z1T	TAL SEA

Laboratory References:

SC0053 = OnSite Environmental Inc, 14648 NE 95th Street, Redmond, WA 98052

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-70142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-70142-1	0717-06	Water	07/24/17 11:45	07/25/17 16:30
580-70142-2	0717-07	Water	07/24/17 13:10	07/25/17 16:30
580-70142-3	0717-21	Water	07/24/17 14:45	07/25/17 16:30
580-70142-4	0717-20	Water	07/24/17 15:37	07/25/17 16:30
580-70142-5	0717-24	Water	07/24/17 16:25	07/25/17 16:30
580-70142-6	0717-11	Water	07/24/17 17:40	07/25/17 16:30
580-70142-7	0717-10	Water	07/24/17 18:35	07/25/17 16:30
580-70142-8	Trip Blank	Water	07/24/17 00:00	07/25/17 16:30

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 9, 2017

Cathy Gamble
Test America
5755 8th Street East
Tacoma, WA 98424

Re: Analytical Data for Project 58009563
Laboratory Reference No. 1707-262

Dear Cathy:

Enclosed are the analytical results and associated quality control data for samples submitted on July 26, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

Case Narrative

Samples were collected on July 24, 2017 and received by the laboratory on July 26, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-06**					
Laboratory ID:	07-262-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-06**					
Laboratory ID:	07-262-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*77-129*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-07**					
Laboratory ID:	07-262-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-07**					
Laboratory ID:	07-262-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*77-129*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-21**					
Laboratory ID:	07-262-03					
Dichlorodifluoromethane	3.4	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	0.81	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-21**					
Laboratory ID:	07-262-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-20**					
Laboratory ID:	07-262-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-20**					
Laboratory ID:	07-262-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*106*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-24**					
Laboratory ID:	07-262-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-24**					
Laboratory ID:	07-262-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*77-129*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-11**					
Laboratory ID:	07-262-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-11**					
Laboratory ID:	07-262-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*77-129*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-10**					
Laboratory ID:	07-262-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**0717-10**					
Laboratory ID:	07-262-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	07-262-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	07-262-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*110*	*77-129*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
Page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0802W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloromethane	ND	1.3	EPA 8260C	8-2-17	8-2-17	
Vinyl Chloride	ND	0.020	EPA 8260C/SIM	8-2-17	8-2-17	
Bromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Acetone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Iodomethane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Carbon Disulfide	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methylene Chloride	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Vinyl Acetate	ND	1.0	EPA 8260C	8-2-17	8-2-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Butanone	ND	5.0	EPA 8260C	8-2-17	8-2-17	
Bromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chloroform	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Benzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Trichloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Dibromomethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromodichloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Toluene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-2-17	8-2-17	

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Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
METHOD BLANK QUALITY CONTROL
Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0802W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Tetrachloroethene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Hexanone	ND	2.0	EPA 8260C	8-2-17	8-2-17	
Dibromochloromethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Chlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Ethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
m,p-Xylene	ND	0.40	EPA 8260C	8-2-17	8-2-17	
o-Xylene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Styrene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromoform	ND	1.0	EPA 8260C	8-2-17	8-2-17	
Isopropylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Bromobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Propylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
n-Butylbenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Naphthalene	ND	1.0	EPA 8260C	8-2-17	8-2-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-2-17	8-2-17	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*77-129*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 9, 2017
Samples Submitted: July 26, 2017
Laboratory Reference: 1707-262
Project: 58009563

VOLATILES EPA 8260C/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0802W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.89**	**8.98**	10.0	10.0	99	90	63-127	10	17	
Benzene	**10.6**	**9.67**	10.0	10.0	106	97	76-121	9	12	
Trichloroethene	**9.20**	**7.93**	10.0	10.0	92	79	64-120	15	15	
Toluene	**10.5**	**9.36**	10.0	10.0	105	94	82-120	11	13	
Chlorobenzene	**10.1**	**8.92**	10.0	10.0	101	89	80-120	12	14	
Surrogate:										
Dibromofluoromethane					*109*	*108*	*77-129*			
Toluene-d8					*98*	*100*	*80-127*			
4-Bromofluorobenzene					*101*	*102*	*78-125*			

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

07-262

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-48404.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cathy.gamble@testamericainc.com	State of Origin: Washington	Page: Page 1 of 1
Company: OnSite Environmental Inc		Accreditations Required (See note): State Program - Washington		Job #: 580-70142-1
Address: 14648 NE 95th Street,	Due Date Requested: 8/4/2017			
City: Redmond	TAT Requested (days):			
State, Zip: WA, 98052				
Phone:	PO #:			
Email:	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8260_LL (Vinyl Chloride only))/ 8260_LL (Vinyl Chloride only)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
1	0717-06	7/24/17	11:45 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
2	0717-07	7/24/17	13:10 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
3	0717-21	7/24/17	14:45 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
4	0717-20	7/24/17	15:37 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
5	0717-24	7/24/17	16:25 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
6	0717-11	7/24/17	17:40 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
7	0717-10	7/24/17	18:35 Pacific		Water			X	1	Must meet an RL of 0.02 ug/L
8	TRIP BLANK	7/24/17	-		water			X	1	"

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	7/26/17 1230 1345	TA-SEA	[signature]	7/26/17 1345	OSE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

9/13/2017 (Rev. 1)

Loc: 580
70142

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-25236-8338.6
Client Contact: Mr. Sam Graber	Phone: (612)940-2980	E-Mail: cathy.gamble@testamericainc.com		Page: Page 6 of 7
Company: SCS Engineers				Job #: 042170cc3.16
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877				
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0, 28D, 300_ORGFM_28D	6020A_LL - (MOD) Template for building analyte list	6010C - (MOD) Template for building analyte list	350.1, 353.2, 5220D	SM5310_TOC_B - Local Method	2540C - Local Method	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	D	D	S	S	N	A	N	X	
0717-06	7/24/17	1145	G	Water	Y	N	X	X	X	X	X	X	X		9	
0717-07		1310		Water												
0717-21		1445		Water												
0717-20		1537		Water												
0717-24		1625		Water												
0717-11		1740		Water												
0717-10		1835		Water												
Trip blank		—	—	Water	N	N							X		3	
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 7/25/17	Company	Received by:	Date/Time: 7/25/17 1630	Company TASEH
Relinquished by:		Company			
Relinquished by:		Company			

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

580-70142 Chain of Custody

TB ___ Cooler 1.4 Cor 3.2 Unc 3.3
Cooler Dsc Lg Blue @Lab 1630
Wet/Packs Packing Bubble
w/o

TB ___ Cooler 1.4 Cor 5.2 Unc 5.3
Cooler Dsc Lg Blue @Lab 1630
Wet/Packs Packing Bubble
w/o

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-70142-1

Login Number: 70142
List Number: 1
Creator: Ponce-McDermott, Monica

List Source: TestAmerica Seattle

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

DATA VALIDATION REPORT – ISLAND COUNTY CSWF 4Q 2017

Project Details

Project No.	04207033.10	**Site Name**	Island County Coupeville SWF
Data Validator	Sam Graber	**Data Level**	Level II
Date	1/4/18	**DV Tier**	Tier I
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised September 2007)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-72358-1	Samples arrived in good condition. pH in nitric polys in sample 1017-22 greater than 2. Lab preserved to appropriate pH and proceeded with analysis.	Test America
580-72413-1	Samples arrived in good condition.	Test America
580-72457-1	Samples arrived in good condition. The response factor for the CCV in batch 580-260470 was outside control limits for 2-Butanone. Therefore any detection is considered estimated.	Test America
17-30625	Samples arrived in good condition.	Edge Analytical

Analytical Summary

Sample Group	Analyses						
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC	Herbicides
580-72358-1	X	X	X	X	X	X	-
580-72413-1	X	X	X	X	X	X	X
580-72457-1	X	X	X	X	X	X	-
17-30625	-	-	X	-	-	-	-

X = Analysis performed on at least one sample in sample group.

- = Analysis not performed on any sample in sample group.

Laboratory Quality Assurance Samples

Lab QA Samples	Results	Comments
Method Blank	Acceptable	See case narrative (580-72358-1, 580-72413-1, 580-72457-1, 17-30625)
LCS/LCSD	Acceptable	See case narrative (580-72358-1, 580-72413-1, 580-72457-1, 17-30625)
Duplicates	Acceptable	See case narrative (580-72358-1, 580-72413-1, 580-72457-1, 17-30625)
MS/MSD	Acceptable	See case narrative (580-72358-1, 580-72413-1, 580-72457-1, 17-30625)

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates		See below.	See detailed results below.
Trip Blank	580-72358-1, 580-72457-1	Methylene Chloride.	Detected in trip blank.
Trip Blank	580-72413-1	Acetone.	Detected in trip blank.

Detailed Field Replicate Evaluation

Duplicate Evaluation							
Analyte	**Units**	**C1S (1017-19)**	**C1S DUP (1017-31)**	**RPD (%)**	**N3D (1017-20)**	**N3D DUP (1017-32)**	**RPD (%)**
1,1,1-Trichloroethane	ug/L	0.48	0.5	4.08	0.2 U	0.2 U	0.00
1,1-Dichloroethylene	ug/L	0.1 U	0.1	0.00	0.1 U	0.1 U	0.00
Alkalinity	mg/L	360	370	2.74	240	240	0.00
Alkalinity as Bicarbonate	mg/L	360	370	2.74	240	240	0.00
Arsenic	mg/L	0.0011	0.001	9.52	0.008	0.0076	5.13
Barium	mg/L	0.033	0.033	0.00	0.027	0.025	7.69
Calcium	mg/L	120	120	0.00	78	74	5.26
Chloride	mg/L	3.2	3.2	0.00	38	38	0.00
Chromium	mg/L	0.0086	0.0086	0.00	0.0004 U	0.0004 U	0.00
cis-1,2-Dichloroethylene	ug/L	0.28	0.29	3.51	0.2 U	0.2 U	0.00
Copper	mg/L	0.002 U	0.002 U	0.00	0.002	0.002 U	0.00
Magnesium	mg/L	47	48	2.11	29	27	7.14
Manganese	mg/L	0.02 U	0.02 U	0.00	0.043	0.033	26.32
Nickel	mg/L	0.0057	0.0058	1.74	0.003 U	0.003 U	0.00
Nitrate/Nitrite, Total	mg/L	3.1	3.1	0.00	0.4 U	0.4 U	0.00
Potassium	mg/L	5.3	5.4	1.87	6.8	6.5	4.51
Sodium	mg/L	23	24	4.26	24	23	4.26
Sulfate	mg/L	150	150	0.00	25	25	0.00
Total Dissolved Solids	mg/L	620	640	3.17	390	390	0.00
Total Organic Carbon	mg/L	5.9	5.8	1.71	1.1	1.1	0.00
Trichloroethylene	ug/L	0.23	0.21	9.09	0.2 U	0.2 U	0.00
Trichlorofluoromethane	ug/L	5	4.9	2.02	0.5 U	0.5 U	0.00

U = Reporting limit used in place of a non-detection for the given parameter to allow for calculation.

Lab Qualifier Definitions

Lab Qualifiers	Description	Lab Group
B	Compound was found in the blank and sample.	580-72413-1
E	Result exceeded calibration range.	
F1	MS and/or MSD Recovery is outside acceptance limits.	580-72358-1, 580-72413-1, 580-72457-1
F2	MS/MSD RPS exceeds control limits.	
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
X	Surrogate is outside control limits	580-72358-1
4	MS, MSD: the analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	580-72413-1, 580-72457-1
^	ICV, CCV, ICB, CCB, ISA, CRI, CRA, DLCK, or MRL standard: Instrument related QC is outside acceptance limits.	580-72358-1
*	LCS or LCSD is outside control limits.	580-72358-1, 580-72413-1

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-72358-1
Client Project/Site: Coupeville Solid Waste Facility Groundwa

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
11/7/2017 4:47:50 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 580-72358-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The samples were received on 10/24/2017 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 4.7º C, 5.8º C, 6.0º C and 6.1º C.

Receipt Exceptions

The reference method requires samples to be preserved to a pH of 2 or less. Both nitric polys of the following sample were received with insufficient preservation at a pH of 5: 1017-22 (580-72358-6). The sample was preserved to the appropriate pH in the laboratory using nitric acid from lot 0000162027 at 1620 on 10/24/17.

GC/MS VOA

Method(s) 8260C: The surrogate recovery for the method blank associated with analytical batch 580-260113 was outside the upper control limits. All associated sample surrogate fell within acceptance criteria; therefore, the data have been reported.

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-260113 was outside criteria for the following analyte(s): Chloroethane and/or 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-260113 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 1017-20 (580-72358-1), 1017-22 (580-72358-6), 1017-04 (580-72358-10), 1017-10 (580-72358-12), 1017-11 (580-72358-13) and (CCVIS 580-260113/3).

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-260113 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-260113 recovered outside acceptance criteria, low biased, for trans-1,4-Dichloro-2-butene, Chloromethane and Bromomethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-260389 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample are impacted: 1017-20 (580-72358-1), 1017-32 (580-72358-2), 1017-21 (580-72358-3), 1017-16 (580-72358-4), 1017-15 (580-72358-5), 1017-22 (580-72358-6), 1017-23 (580-72358-7), 1017-06 (580-72358-8), 1017-07 (580-72358-9), 1017-04 (580-72358-10), 1017-03 (580-72358-11), 1017-10 (580-72358-12), 1017-11 (580-72358-13), Trip Blank (580-72358-14) and (CCVIS 580-260389/3).

Method(s) 8260C: The following samples were re-analyzed due to quality control deficiencies in the initial analysis: 1017-20 (580-72358-1), 1017-32 (580-72358-2), 1017-21 (580-72358-3), 1017-16 (580-72358-4), 1017-15 (580-72358-5), 1017-22 (580-72358-6), 1017-23 (580-72358-7), 1017-06 (580-72358-8), 1017-07 (580-72358-9), 1017-04 (580-72358-10), 1017-03 (580-72358-11), 1017-10 (580-72358-12), 1017-11 (580-72358-13) and Trip Blank (580-72358-14).

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

Metals

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

General Chemistry

Method(s) 300.0, 9056A: The laboratory control sample (LCS) for analytical batch 580-259885 recovered outside control limits for the following analytes: Fluoride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 300.0 The standard mis-injected during the ICAL. The initial calibration curve still had enough points on the curve to b inside acceptance criteria. Qualified data have been reported.

Job ID: 580-72358-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-20
Date Collected: 10/23/17 10:34
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 07:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 07:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 07:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 07:02	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 07:02	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 07:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 07:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 07:02	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 07:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 07:02	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 07:02	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 07:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 07:02	1
2-Butanone	ND		15		ug/L			10/28/17 07:02	1
2-Hexanone	ND		2.0		ug/L			10/28/17 07:02	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 07:02	1
Acetone	ND	*	2.0		ug/L			10/28/17 07:02	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 07:02	1
Benzene	ND		0.20		ug/L			10/28/17 07:02	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 07:02	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 07:02	1
Bromoform	ND		0.50		ug/L			10/28/17 07:02	1
Bromomethane	ND		1.0		ug/L			10/28/17 07:02	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 07:02	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 07:02	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 07:02	1
Chloroethane	ND		0.50		ug/L			10/28/17 07:02	1
Chloroform	ND		0.20		ug/L			10/28/17 07:02	1
Chloromethane	ND		0.30		ug/L			10/28/17 07:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 07:02	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 07:02	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 07:02	1
Dibromomethane	ND		0.20		ug/L			10/28/17 07:02	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 07:02	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 07:02	1
Methyl iodide	ND		0.50		ug/L			10/28/17 07:02	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 07:02	1
o-Xylene	ND		0.50		ug/L			10/28/17 07:02	1
Styrene	ND		0.50		ug/L			10/28/17 07:02	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 07:02	1
Toluene	ND		0.20		ug/L			10/28/17 07:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 07:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 07:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 07:02	1
Trichloroethene	ND		0.20		ug/L			10/28/17 07:02	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 07:02	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 07:02	1

Client Sample ID: 1017-20
Date Collected: 10/23/17 10:34
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/28/17 07:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*81 - 120*		*10/28/17 07:02*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 07:02*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/28/17 07:02*	*1*
Trifluorotoluene (Surr)	*114*		*74 - 118*		*10/28/17 07:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		1.0		ug/L			10/31/17 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*10/31/17 14:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/31/17 14:45*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*10/31/17 14:45*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*10/31/17 14:45*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*10/31/17 14:45*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**78**	**F1**	1.1		mg/L		10/26/17 09:14	10/26/17 16:44	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 16:44	1
Magnesium	**29**		1.1		mg/L		10/26/17 09:14	10/26/17 16:44	1
Manganese	**0.043**		0.020		mg/L		10/26/17 09:14	10/26/17 16:44	1
Potassium	**6.8**		3.3		mg/L		10/26/17 09:14	10/26/17 16:44	1
Sodium	**24**		2.0		mg/L		10/26/17 09:14	10/26/17 16:44	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Arsenic	**0.0080**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:08	1
Barium	**0.027**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:08	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Copper	**0.0020**		0.0020		mg/L		10/26/17 09:14	10/26/17 15:08	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:08	1
Nickel	ND		0.0030		mg/L		10/26/17 09:14	10/26/17 15:08	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:08	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:08	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:14	10/26/17 15:08	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	^ *	0.20		mg/L			10/25/17 10:31	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 10:31	1
Chloride	**38**		0.90		mg/L			10/25/17 10:31	1
Sulfate	**25**		1.2		mg/L			10/25/17 10:31	1
Ammonia	ND	F1	0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-20
Date Collected: 10/23/17 10:34
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.1**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**390**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-32
Date Collected: 10/23/17 10:45
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 07:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 07:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 07:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 07:29	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 07:29	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 07:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 07:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 07:29	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 07:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 07:29	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 07:29	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 07:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 07:29	1
2-Butanone	ND		15		ug/L			10/28/17 07:29	1
2-Hexanone	ND		2.0		ug/L			10/28/17 07:29	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 07:29	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 07:29	1
Benzene	ND		0.20		ug/L			10/28/17 07:29	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 07:29	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 07:29	1
Bromoform	ND		0.50		ug/L			10/28/17 07:29	1
Bromomethane	ND		1.0		ug/L			10/28/17 07:29	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 07:29	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 07:29	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 07:29	1
Chloroethane	ND		0.50		ug/L			10/28/17 07:29	1
Chloroform	ND		0.20		ug/L			10/28/17 07:29	1
Chloromethane	ND		0.30		ug/L			10/28/17 07:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 07:29	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 07:29	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 07:29	1
Dibromomethane	ND		0.20		ug/L			10/28/17 07:29	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 07:29	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 07:29	1
Methyl iodide	ND		0.50		ug/L			10/28/17 07:29	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 07:29	1
o-Xylene	ND		0.50		ug/L			10/28/17 07:29	1
Styrene	ND		0.50		ug/L			10/28/17 07:29	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 07:29	1
Toluene	ND		0.20		ug/L			10/28/17 07:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 07:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 07:29	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 07:29	1
Trichloroethene	ND		0.20		ug/L			10/28/17 07:29	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 07:29	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/28/17 07:29*	*1*

Client Sample ID: 1017-32
Date Collected: 10/23/17 10:45
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/28/17 07:29*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 07:29*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 07:29*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*10/28/17 07:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 15:12	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*10/31/17 15:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/31/17 15:12*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/31/17 15:12*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*10/31/17 15:12*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*10/31/17 15:12*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		1.1		mg/L		10/26/17 09:14	10/26/17 17:16	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:16	1
Magnesium	**27**		1.1		mg/L		10/26/17 09:14	10/26/17 17:16	1
Manganese	**0.033**		0.020		mg/L		10/26/17 09:14	10/26/17 17:16	1
Potassium	**6.5**		3.3		mg/L		10/26/17 09:14	10/26/17 17:16	1
Sodium	**23**		2.0		mg/L		10/26/17 09:14	10/26/17 17:16	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Arsenic	**0.0076**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:36	1
Barium	**0.025**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:36	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Copper	ND		0.0020		mg/L		10/26/17 09:14	10/26/17 15:36	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:36	1
Nickel	ND		0.0030		mg/L		10/26/17 09:14	10/26/17 15:36	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:36	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:36	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:14	10/26/17 15:36	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1 ^ *	0.20		mg/L			10/25/17 10:43	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 10:43	1
Chloride	**38**		0.90		mg/L			10/25/17 10:43	1
Sulfate	**25**		1.2		mg/L			10/25/17 10:43	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-32
Date Collected: 10/23/17 10:45
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**1.1**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**240**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**240**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**390**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-21
Date Collected: 10/23/17 10:31
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 07:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 07:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 07:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 07:55	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 07:55	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 07:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 07:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 07:55	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 07:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 07:55	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 07:55	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 07:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 07:55	1
2-Butanone	ND		15		ug/L			10/28/17 07:55	1
2-Hexanone	ND		2.0		ug/L			10/28/17 07:55	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 07:55	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 07:55	1
Benzene	ND		0.20		ug/L			10/28/17 07:55	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 07:55	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 07:55	1
Bromoform	ND		0.50		ug/L			10/28/17 07:55	1
Bromomethane	ND		1.0		ug/L			10/28/17 07:55	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 07:55	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 07:55	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 07:55	1
Chloroethane	ND		0.50		ug/L			10/28/17 07:55	1
Chloroform	ND		0.20		ug/L			10/28/17 07:55	1
Chloromethane	ND		0.30		ug/L			10/28/17 07:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 07:55	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 07:55	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 07:55	1
Dibromomethane	ND		0.20		ug/L			10/28/17 07:55	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 07:55	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 07:55	1
Methyl iodide	ND		0.50		ug/L			10/28/17 07:55	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 07:55	1
o-Xylene	ND		0.50		ug/L			10/28/17 07:55	1
Styrene	ND		0.50		ug/L			10/28/17 07:55	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 07:55	1
Toluene	ND		0.20		ug/L			10/28/17 07:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 07:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 07:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 07:55	1
Trichloroethene	ND		0.20		ug/L			10/28/17 07:55	1
Trichlorofluoromethane	**0.97**		0.50		ug/L			10/28/17 07:55	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/28/17 07:55*	*1*

Client Sample ID: 1017-21
Date Collected: 10/23/17 10:31
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-3
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*81 - 120*		*10/28/17 07:55*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 07:55*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 07:55*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/28/17 07:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 15:38	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/31/17 15:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/31/17 15:38*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*10/31/17 15:38*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*10/31/17 15:38*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*10/31/17 15:38*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		10/26/17 09:14	10/26/17 17:19	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:19	1
Magnesium	**52**		1.1		mg/L		10/26/17 09:14	10/26/17 17:19	1
Manganese	ND		0.020		mg/L		10/26/17 09:14	10/26/17 17:19	1
Potassium	**6.7**		3.3		mg/L		10/26/17 09:14	10/26/17 17:19	1
Sodium	**31**		2.0		mg/L		10/26/17 09:14	10/26/17 17:19	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Arsenic	**0.0024**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:39	1
Barium	**0.032**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:39	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Chromium	**0.011**		0.00040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Copper	**0.0020**		0.0020		mg/L		10/26/17 09:14	10/26/17 15:39	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:39	1
Nickel	ND		0.0030		mg/L		10/26/17 09:14	10/26/17 15:39	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:39	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:39	1
Vanadium	**0.0059**		0.0040		mg/L		10/26/17 09:14	10/26/17 15:39	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	^ *	0.20		mg/L			10/25/17 10:19	1
Nitrate Nitrite as N	**5.7**		0.40		mg/L			10/25/17 10:19	1
Chloride	**38**		0.90		mg/L			10/25/17 10:19	1
Sulfate	**45**		1.2		mg/L			10/25/17 10:19	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-21
Date Collected: 10/23/17 10:31
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**1.5**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**450**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**450**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**640**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-16
Date Collected: 10/23/17 11:55
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 08:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 08:22	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 08:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 08:22	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 08:22	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 08:22	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 08:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 08:22	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 08:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 08:22	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 08:22	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 08:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 08:22	1
2-Butanone	ND		15		ug/L			10/28/17 08:22	1
2-Hexanone	ND		2.0		ug/L			10/28/17 08:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 08:22	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 08:22	1
Benzene	ND		0.20		ug/L			10/28/17 08:22	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 08:22	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 08:22	1
Bromoform	ND		0.50		ug/L			10/28/17 08:22	1
Bromomethane	ND		1.0		ug/L			10/28/17 08:22	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 08:22	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 08:22	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 08:22	1
Chloroethane	ND		0.50		ug/L			10/28/17 08:22	1
Chloroform	ND		0.20		ug/L			10/28/17 08:22	1
Chloromethane	ND		0.30		ug/L			10/28/17 08:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 08:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 08:22	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 08:22	1
Dibromomethane	ND		0.20		ug/L			10/28/17 08:22	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 08:22	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 08:22	1
Methyl iodide	ND		0.50		ug/L			10/28/17 08:22	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 08:22	1
o-Xylene	ND		0.50		ug/L			10/28/17 08:22	1
Styrene	ND		0.50		ug/L			10/28/17 08:22	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 08:22	1
Toluene	ND		0.20		ug/L			10/28/17 08:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 08:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 08:22	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 08:22	1
Trichloroethene	ND		0.20		ug/L			10/28/17 08:22	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 08:22	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/28/17 08:22*	*1*

Client Sample ID: 1017-16
Date Collected: 10/23/17 11:55
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/28/17 08:22*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/28/17 08:22*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 08:22*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/28/17 08:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 16:05	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/31/17 16:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/31/17 16:05*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/31/17 16:05*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*10/31/17 16:05*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*10/31/17 16:05*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**36**		1.1		mg/L		10/26/17 09:14	10/26/17 17:23	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:23	1
Magnesium	**32**		1.1		mg/L		10/26/17 09:14	10/26/17 17:23	1
Manganese	ND		0.020		mg/L		10/26/17 09:14	10/26/17 17:23	1
Potassium	ND		3.3		mg/L		10/26/17 09:14	10/26/17 17:23	1
Sodium	**12**		2.0		mg/L		10/26/17 09:14	10/26/17 17:23	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Arsenic	**0.0018**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:42	1
Barium	**0.012**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:42	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Chromium	**0.0029**		0.00040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Copper	**0.0023**		0.0020		mg/L		10/26/17 09:14	10/26/17 15:42	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:42	1
Nickel	**0.0059**		0.0030		mg/L		10/26/17 09:14	10/26/17 15:42	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:42	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:42	1
Vanadium	**0.0042**		0.0040		mg/L		10/26/17 09:14	10/26/17 15:42	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	^ *	0.20		mg/L			10/25/17 11:18	1
Nitrate Nitrite as N	**2.6**		0.40		mg/L			10/25/17 11:18	1
Chloride	**3.6**		0.90		mg/L			10/25/17 11:18	1
Sulfate	**10**		1.2		mg/L			10/25/17 11:18	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-16
Date Collected: 10/23/17 11:55
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**2.4**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**200**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**200**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**270**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-15
Date Collected: 10/23/17 12:04
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 08:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 08:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 08:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 08:48	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 08:48	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 08:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 08:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 08:48	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 08:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 08:48	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 08:48	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 08:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 08:48	1
2-Butanone	ND		15		ug/L			10/28/17 08:48	1
2-Hexanone	ND		2.0		ug/L			10/28/17 08:48	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 08:48	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 08:48	1
Benzene	ND		0.20		ug/L			10/28/17 08:48	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 08:48	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 08:48	1
Bromoform	ND		0.50		ug/L			10/28/17 08:48	1
Bromomethane	ND		1.0		ug/L			10/28/17 08:48	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 08:48	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 08:48	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 08:48	1
Chloroethane	ND		0.50		ug/L			10/28/17 08:48	1
Chloroform	ND		0.20		ug/L			10/28/17 08:48	1
Chloromethane	ND		0.30		ug/L			10/28/17 08:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 08:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 08:48	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 08:48	1
Dibromomethane	ND		0.20		ug/L			10/28/17 08:48	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 08:48	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 08:48	1
Methyl iodide	ND		0.50		ug/L			10/28/17 08:48	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 08:48	1
o-Xylene	ND		0.50		ug/L			10/28/17 08:48	1
Styrene	ND		0.50		ug/L			10/28/17 08:48	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 08:48	1
Toluene	ND		0.20		ug/L			10/28/17 08:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 08:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 08:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 08:48	1
Trichloroethene	ND		0.20		ug/L			10/28/17 08:48	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 08:48	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*46 - 150*		*10/28/17 08:48*	*1*

Client Sample ID: 1017-15
Date Collected: 10/23/17 12:04
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/28/17 08:48*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/28/17 08:48*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/28/17 08:48*	*1*
Trifluorotoluene (Surr)	*114*		*74 - 118*		*10/28/17 08:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 16:31	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*10/31/17 16:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*10/31/17 16:31*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*10/31/17 16:31*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*10/31/17 16:31*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*10/31/17 16:31*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		10/26/17 09:14	10/26/17 17:26	1
Iron	**0.34**		0.30		mg/L		10/26/17 09:14	10/26/17 17:26	1
Magnesium	**100**		1.1		mg/L		10/26/17 09:14	10/26/17 17:26	1
Manganese	**0.30**		0.020		mg/L		10/26/17 09:14	10/26/17 17:26	1
Potassium	**10**		3.3		mg/L		10/26/17 09:14	10/26/17 17:26	1
Sodium	**50**		2.0		mg/L		10/26/17 09:14	10/26/17 17:26	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Arsenic	**0.0050**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:45	1
Barium	**0.10**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:45	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Copper	ND		0.0020		mg/L		10/26/17 09:14	10/26/17 15:45	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:45	1
Nickel	**0.0094**		0.0030		mg/L		10/26/17 09:14	10/26/17 15:45	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:45	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:45	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:14	10/26/17 15:45	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	^ *	0.20		mg/L			10/25/17 11:29	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 11:29	1
Chloride	**120**		4.5		mg/L			10/25/17 14:37	5
Sulfate	**150**		6.0		mg/L			10/25/17 14:37	5

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-15
Date Collected: 10/23/17 12:04
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-5
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**4.1**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**500**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**500**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**920**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-22
Date Collected: 10/23/17 13:16
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 09:15	1
1,1,1-Trichloroethane	**0.31**		0.20		ug/L			10/28/17 09:15	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 09:15	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 09:15	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 09:15	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 09:15	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 09:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 09:15	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 09:15	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 09:15	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 09:15	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 09:15	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 09:15	1
2-Butanone	ND		15		ug/L			10/28/17 09:15	1
2-Hexanone	ND		2.0		ug/L			10/28/17 09:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 09:15	1
Acetone	ND	*	2.0		ug/L			10/28/17 09:15	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 09:15	1
Benzene	ND		0.20		ug/L			10/28/17 09:15	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 09:15	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 09:15	1
Bromoform	ND		0.50		ug/L			10/28/17 09:15	1
Bromomethane	ND		1.0		ug/L			10/28/17 09:15	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 09:15	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 09:15	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 09:15	1
Chloroethane	ND		0.50		ug/L			10/28/17 09:15	1
Chloroform	ND		0.20		ug/L			10/28/17 09:15	1
Chloromethane	ND		0.30		ug/L			10/28/17 09:15	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 09:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 09:15	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 09:15	1
Dibromomethane	ND		0.20		ug/L			10/28/17 09:15	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 09:15	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 09:15	1
Methyl iodide	ND		0.50		ug/L			10/28/17 09:15	1
Methylene Chloride	**0.59**		0.50		ug/L			10/28/17 09:15	1
o-Xylene	ND		0.50		ug/L			10/28/17 09:15	1
Styrene	ND		0.50		ug/L			10/28/17 09:15	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 09:15	1
Toluene	ND		0.20		ug/L			10/28/17 09:15	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 09:15	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 09:15	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 09:15	1
Trichloroethene	ND		0.20		ug/L			10/28/17 09:15	1
Trichlorofluoromethane	**1.8**		0.50		ug/L			10/28/17 09:15	1
Vinyl chloride	**18**		0.020		ug/L			10/28/17 09:15	1

Client Sample ID: 1017-22
Date Collected: 10/23/17 13:16
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*46 - 150*		*10/28/17 09:15*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/28/17 09:15*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 09:15*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 09:15*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*10/28/17 09:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		1.0		ug/L			10/31/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*10/31/17 16:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/31/17 16:58*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/31/17 16:58*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*10/31/17 16:58*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*10/31/17 16:58*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**220**		1.1		mg/L		10/26/17 09:14	10/26/17 17:29	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:29	1
Magnesium	**110**		1.1		mg/L		10/26/17 09:14	10/26/17 17:29	1
Manganese	**0.067**		0.020		mg/L		10/26/17 09:14	10/26/17 17:29	1
Potassium	**9.9**		3.3		mg/L		10/26/17 09:14	10/26/17 17:29	1
Sodium	**42**		2.0		mg/L		10/26/17 09:14	10/26/17 17:29	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Arsenic	**0.0018**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:48	1
Barium	**0.042**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:48	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Copper	**0.0025**		0.0020		mg/L		10/26/17 09:14	10/26/17 15:48	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:48	1
Nickel	**0.0072**		0.0030		mg/L		10/26/17 09:14	10/26/17 15:48	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:48	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:48	1
Vanadium	**0.0066**		0.0040		mg/L		10/26/17 09:14	10/26/17 15:48	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	* ^	0.20		mg/L			10/25/17 12:16	1
Nitrate Nitrite as N	**3.8**		0.40		mg/L			10/25/17 12:16	1
Chloride	**28**		0.90		mg/L			10/25/17 12:16	1
Sulfate	**73**		1.2		mg/L			10/25/17 12:16	1
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-22
Date Collected: 10/23/17 13:16
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-6
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.2**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**830**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**830**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**1000**		20		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-23
Date Collected: 10/23/17 13:07
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 09:41	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 09:41	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 09:41	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 09:41	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 09:41	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 09:41	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 09:41	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 09:41	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 09:41	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 09:41	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 09:41	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 09:41	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 09:41	1
2-Butanone	ND		15		ug/L			10/28/17 09:41	1
2-Hexanone	ND		2.0		ug/L			10/28/17 09:41	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 09:41	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 09:41	1
Benzene	ND		0.20		ug/L			10/28/17 09:41	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 09:41	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 09:41	1
Bromoform	ND		0.50		ug/L			10/28/17 09:41	1
Bromomethane	ND		1.0		ug/L			10/28/17 09:41	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 09:41	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 09:41	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 09:41	1
Chloroethane	ND		0.50		ug/L			10/28/17 09:41	1
Chloroform	ND		0.20		ug/L			10/28/17 09:41	1
Chloromethane	ND		0.30		ug/L			10/28/17 09:41	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 09:41	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 09:41	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 09:41	1
Dibromomethane	ND		0.20		ug/L			10/28/17 09:41	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 09:41	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 09:41	1
Methyl iodide	ND		0.50		ug/L			10/28/17 09:41	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 09:41	1
o-Xylene	ND		0.50		ug/L			10/28/17 09:41	1
Styrene	ND		0.50		ug/L			10/28/17 09:41	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 09:41	1
Toluene	ND		0.20		ug/L			10/28/17 09:41	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 09:41	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 09:41	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 09:41	1
Trichloroethene	ND		0.20		ug/L			10/28/17 09:41	1
Trichlorofluoromethane	**1.9**		0.50		ug/L			10/28/17 09:41	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*46 - 150*		*10/28/17 09:41*	*1*

Client Sample ID: 1017-23
Date Collected: 10/23/17 13:07
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/28/17 09:41*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 09:41*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/28/17 09:41*	*1*
Trifluorotoluene (Surr)	*109*		*74 - 118*		*10/28/17 09:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.0**		2.0		ug/L			10/31/17 17:24	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/31/17 17:24*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/31/17 17:24*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*10/31/17 17:24*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*10/31/17 17:24*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*10/31/17 17:24*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		10/26/17 09:14	10/26/17 17:33	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:33	1
Magnesium	**75**		1.1		mg/L		10/26/17 09:14	10/26/17 17:33	1
Manganese	**0.47**		0.020		mg/L		10/26/17 09:14	10/26/17 17:33	1
Potassium	**8.5**		3.3		mg/L		10/26/17 09:14	10/26/17 17:33	1
Sodium	**36**		2.0		mg/L		10/26/17 09:14	10/26/17 17:33	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Arsenic	**0.0011**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:52	1
Barium	**0.051**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:52	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Cobalt	**0.00092**		0.00040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Copper	**0.0022**		0.0020		mg/L		10/26/17 09:14	10/26/17 15:52	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:52	1
Nickel	**0.0048**		0.0030		mg/L		10/26/17 09:14	10/26/17 15:52	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:52	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:52	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:14	10/26/17 15:52	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	^ *	0.20		mg/L			10/25/17 11:41	1
Nitrate Nitrite as N	**7.7**		0.40		mg/L			10/25/17 11:41	1
Chloride	**22**		0.90		mg/L			10/25/17 11:41	1
Sulfate	**68**		1.2		mg/L			10/25/17 11:41	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-23
Date Collected: 10/23/17 13:07
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**1.9**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**600**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**600**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**810**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-06
Date Collected: 10/23/17 14:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 10:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 10:07	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 10:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 10:07	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 10:07	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 10:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 10:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 10:07	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 10:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 10:07	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 10:07	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 10:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 10:07	1
2-Butanone	ND		15		ug/L			10/28/17 10:07	1
2-Hexanone	ND		2.0		ug/L			10/28/17 10:07	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 10:07	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 10:07	1
Benzene	ND		0.20		ug/L			10/28/17 10:07	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 10:07	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 10:07	1
Bromoform	ND		0.50		ug/L			10/28/17 10:07	1
Bromomethane	ND		1.0		ug/L			10/28/17 10:07	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 10:07	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 10:07	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 10:07	1
Chloroethane	ND		0.50		ug/L			10/28/17 10:07	1
Chloroform	ND		0.20		ug/L			10/28/17 10:07	1
Chloromethane	ND		0.30		ug/L			10/28/17 10:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 10:07	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 10:07	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 10:07	1
Dibromomethane	ND		0.20		ug/L			10/28/17 10:07	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 10:07	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 10:07	1
Methyl iodide	ND		0.50		ug/L			10/28/17 10:07	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 10:07	1
o-Xylene	ND		0.50		ug/L			10/28/17 10:07	1
Styrene	ND		0.50		ug/L			10/28/17 10:07	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 10:07	1
Toluene	ND		0.20		ug/L			10/28/17 10:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 10:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 10:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 10:07	1
Trichloroethene	ND		0.20		ug/L			10/28/17 10:07	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 10:07	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/28/17 10:07*	*1*

Client Sample ID: 1017-06
Date Collected: 10/23/17 14:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/28/17 10:07*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 10:07*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/28/17 10:07*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*10/28/17 10:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 17:51	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/31/17 17:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/31/17 17:51*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*10/31/17 17:51*	*1*
Toluene-d8 (Surr)	*100*		*75 - 125*		*10/31/17 17:51*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*10/31/17 17:51*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		10/26/17 09:14	10/26/17 17:36	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:36	1
Magnesium	**38**		1.1		mg/L		10/26/17 09:14	10/26/17 17:36	1
Manganese	ND		0.020		mg/L		10/26/17 09:14	10/26/17 17:36	1
Potassium	**6.0**		3.3		mg/L		10/26/17 09:14	10/26/17 17:36	1
Sodium	**19**		2.0		mg/L		10/26/17 09:14	10/26/17 17:36	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Arsenic	**0.0023**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:55	1
Barium	**0.029**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:55	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Chromium	**0.0040**		0.00040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Copper	**0.0048**		0.0020		mg/L		10/26/17 09:14	10/26/17 15:55	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:55	1
Nickel	**0.0048**		0.0030		mg/L		10/26/17 09:14	10/26/17 15:55	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:55	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:55	1
Vanadium	**0.0051**		0.0040		mg/L		10/26/17 09:14	10/26/17 15:55	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	* ^	0.20		mg/L			10/25/17 12:28	1
Nitrate Nitrite as N	**5.5**		0.40		mg/L			10/25/17 12:28	1
Chloride	**19**		0.90		mg/L			10/25/17 12:28	1
Sulfate	**71**		1.2		mg/L			10/25/17 12:28	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-06
Date Collected: 10/23/17 14:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-8
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**1.5**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**530**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-07
Date Collected: 10/23/17 14:33
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 10:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 10:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 10:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 10:34	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 10:34	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 10:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 10:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 10:34	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 10:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 10:34	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 10:34	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 10:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 10:34	1
2-Butanone	ND		15		ug/L			10/28/17 10:34	1
2-Hexanone	ND		2.0		ug/L			10/28/17 10:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 10:34	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 10:34	1
Benzene	ND		0.20		ug/L			10/28/17 10:34	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 10:34	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 10:34	1
Bromoform	ND		0.50		ug/L			10/28/17 10:34	1
Bromomethane	ND		1.0		ug/L			10/28/17 10:34	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 10:34	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 10:34	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 10:34	1
Chloroethane	ND		0.50		ug/L			10/28/17 10:34	1
Chloroform	ND		0.20		ug/L			10/28/17 10:34	1
Chloromethane	ND		0.30		ug/L			10/28/17 10:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 10:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 10:34	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 10:34	1
Dibromomethane	ND		0.20		ug/L			10/28/17 10:34	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 10:34	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 10:34	1
Methyl iodide	ND		0.50		ug/L			10/28/17 10:34	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 10:34	1
o-Xylene	ND		0.50		ug/L			10/28/17 10:34	1
Styrene	ND		0.50		ug/L			10/28/17 10:34	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 10:34	1
Toluene	ND		0.20		ug/L			10/28/17 10:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 10:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 10:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 10:34	1
Trichloroethene	ND		0.20		ug/L			10/28/17 10:34	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 10:34	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/28/17 10:34*	*1*

Client Sample ID: 1017-07
Date Collected: 10/23/17 14:33
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*81 - 120*		*10/28/17 10:34*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 10:34*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 10:34*	*1*
Trifluorotoluene (Surr)	*117*		*74 - 118*		*10/28/17 10:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 18:17	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*46 - 150*		*10/31/17 18:17*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/31/17 18:17*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*10/31/17 18:17*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*10/31/17 18:17*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*10/31/17 18:17*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**63**		1.1		mg/L		10/26/17 09:14	10/26/17 17:39	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 17:39	1
Magnesium	**38**		1.1		mg/L		10/26/17 09:14	10/26/17 17:39	1
Manganese	ND		0.020		mg/L		10/26/17 09:14	10/26/17 17:39	1
Potassium	**6.4**		3.3		mg/L		10/26/17 09:14	10/26/17 17:39	1
Sodium	**27**		2.0		mg/L		10/26/17 09:14	10/26/17 17:39	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Arsenic	**0.0071**		0.0010		mg/L		10/26/17 09:14	10/26/17 15:58	1
Barium	**0.017**		0.0012		mg/L		10/26/17 09:14	10/26/17 15:58	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Copper	ND		0.0020		mg/L		10/26/17 09:14	10/26/17 15:58	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 15:58	1
Nickel	ND		0.0030		mg/L		10/26/17 09:14	10/26/17 15:58	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 15:58	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 15:58	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:14	10/26/17 15:58	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1 * ^	0.20		mg/L			10/25/17 12:40	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 12:40	1
Chloride	**38**		0.90		mg/L			10/25/17 12:40	1
Sulfate	**38**		1.2		mg/L			10/25/17 12:40	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-07
Date Collected: 10/23/17 14:33
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-9
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**1.3**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**250**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**390**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-04
Date Collected: 10/23/17 15:48
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 11:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 11:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 11:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 11:01	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 11:01	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 11:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 11:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 11:01	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 11:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 11:01	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 11:01	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 11:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 11:01	1
2-Butanone	ND		15		ug/L			10/28/17 11:01	1
2-Hexanone	ND		2.0		ug/L			10/28/17 11:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 11:01	1
Acetone	ND	*	2.0		ug/L			10/28/17 11:01	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 11:01	1
Benzene	ND		0.20		ug/L			10/28/17 11:01	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 11:01	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 11:01	1
Bromoform	ND		0.50		ug/L			10/28/17 11:01	1
Bromomethane	ND		1.0		ug/L			10/28/17 11:01	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 11:01	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 11:01	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 11:01	1
Chloroethane	ND		0.50		ug/L			10/28/17 11:01	1
Chloroform	ND		0.20		ug/L			10/28/17 11:01	1
Chloromethane	ND		0.30		ug/L			10/28/17 11:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 11:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 11:01	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 11:01	1
Dibromomethane	ND		0.20		ug/L			10/28/17 11:01	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 11:01	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 11:01	1
Methyl iodide	ND		0.50		ug/L			10/28/17 11:01	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 11:01	1
o-Xylene	ND		0.50		ug/L			10/28/17 11:01	1
Styrene	ND		0.50		ug/L			10/28/17 11:01	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 11:01	1
Toluene	ND		0.20		ug/L			10/28/17 11:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 11:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 11:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 11:01	1
Trichloroethene	ND		0.20		ug/L			10/28/17 11:01	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 11:01	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 11:01	1

Client Sample ID: 1017-04
Date Collected: 10/23/17 15:48
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/28/17 11:01*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/28/17 11:01*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*10/28/17 11:01*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*10/28/17 11:01*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*10/28/17 11:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		1.0		ug/L			10/31/17 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/31/17 18:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/31/17 18:44*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/31/17 18:44*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*10/31/17 18:44*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*10/31/17 18:44*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**40**		1.1		mg/L		10/26/17 09:43	10/26/17 18:02	1
Iron	ND		0.30		mg/L		10/26/17 09:43	10/26/17 18:02	1
Magnesium	**28**		1.1		mg/L		10/26/17 09:43	10/26/17 18:02	1
Manganese	**0.072**		0.020		mg/L		10/26/17 09:43	10/26/17 18:02	1
Potassium	**11**		3.3		mg/L		10/26/17 09:43	10/26/17 18:02	1
Sodium	**35**		2.0		mg/L		10/26/17 09:43	10/26/17 18:02	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Arsenic	**0.014**		0.0010		mg/L		10/26/17 09:43	10/26/17 16:22	1
Barium	**0.032**		0.0012		mg/L		10/26/17 09:43	10/26/17 16:22	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Chromium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Copper	ND		0.0020		mg/L		10/26/17 09:43	10/26/17 16:22	1
Lead	ND		0.00080		mg/L		10/26/17 09:43	10/26/17 16:22	1
Nickel	ND		0.0030		mg/L		10/26/17 09:43	10/26/17 16:22	1
Selenium	ND		0.0080		mg/L		10/26/17 09:43	10/26/17 16:22	1
Silver	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Thallium	ND		0.0010		mg/L		10/26/17 09:43	10/26/17 16:22	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:43	10/26/17 16:22	1
Zinc	ND		0.0070		mg/L		10/26/17 09:43	10/26/17 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	* ^	0.20		mg/L			10/25/17 13:15	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 13:15	1
Chloride	**32**		0.90		mg/L			10/25/17 13:15	1
Sulfate	**13**		1.2		mg/L			10/25/17 13:15	1
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-04
Date Collected: 10/23/17 15:48
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3.5**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**220**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**220**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**340**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	**13**		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-03
Date Collected: 10/23/17 15:58
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 11:27	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 11:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 11:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 11:27	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 11:27	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 11:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 11:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 11:27	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 11:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 11:27	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 11:27	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 11:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 11:27	1
2-Butanone	ND		15		ug/L			10/28/17 11:27	1
2-Hexanone	ND		2.0		ug/L			10/28/17 11:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 11:27	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 11:27	1
Benzene	ND		0.20		ug/L			10/28/17 11:27	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 11:27	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 11:27	1
Bromoform	ND		0.50		ug/L			10/28/17 11:27	1
Bromomethane	ND		1.0		ug/L			10/28/17 11:27	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 11:27	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 11:27	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 11:27	1
Chloroethane	ND		0.50		ug/L			10/28/17 11:27	1
Chloroform	ND		0.20		ug/L			10/28/17 11:27	1
Chloromethane	ND		0.30		ug/L			10/28/17 11:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 11:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 11:27	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 11:27	1
Dibromomethane	ND		0.20		ug/L			10/28/17 11:27	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 11:27	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 11:27	1
Methyl iodide	ND		0.50		ug/L			10/28/17 11:27	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 11:27	1
o-Xylene	ND		0.50		ug/L			10/28/17 11:27	1
Styrene	ND		0.50		ug/L			10/28/17 11:27	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 11:27	1
Toluene	ND		0.20		ug/L			10/28/17 11:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 11:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 11:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 11:27	1
Trichloroethene	ND		0.20		ug/L			10/28/17 11:27	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 11:27	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/28/17 11:27*	*1*

Client Sample ID: 1017-03
Date Collected: 10/23/17 15:58
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-11
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/28/17 11:27*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 11:27*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 11:27*	*1*
Trifluorotoluene (Surr)	*113*		*74 - 118*		*10/28/17 11:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 19:10	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/31/17 19:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/31/17 19:10*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*10/31/17 19:10*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*10/31/17 19:10*	*1*
Trifluorotoluene (Surr)	*99*		*74 - 118*		*10/31/17 19:10*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		1.1		mg/L		10/26/17 09:43	10/26/17 18:47	1
Iron	ND		0.30		mg/L		10/26/17 09:43	10/26/17 18:47	1
Magnesium	**56**		1.1		mg/L		10/26/17 09:43	10/26/17 18:47	1
Manganese	ND		0.020		mg/L		10/26/17 09:43	10/26/17 18:47	1
Potassium	**6.3**		3.3		mg/L		10/26/17 09:43	10/26/17 18:47	1
Sodium	**30**		2.0		mg/L		10/26/17 09:43	10/26/17 18:47	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Arsenic	**0.0024**		0.0010		mg/L		10/26/17 09:43	10/26/17 16:50	1
Barium	**0.042**		0.0012		mg/L		10/26/17 09:43	10/26/17 16:50	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Chromium	**0.0056**		0.00040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Copper	ND		0.0020		mg/L		10/26/17 09:43	10/26/17 16:50	1
Lead	ND		0.00080		mg/L		10/26/17 09:43	10/26/17 16:50	1
Nickel	ND		0.0030		mg/L		10/26/17 09:43	10/26/17 16:50	1
Selenium	ND		0.0080		mg/L		10/26/17 09:43	10/26/17 16:50	1
Silver	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Thallium	ND		0.0010		mg/L		10/26/17 09:43	10/26/17 16:50	1
Vanadium	**0.0059**		0.0040		mg/L		10/26/17 09:43	10/26/17 16:50	1
Zinc	ND		0.0070		mg/L		10/26/17 09:43	10/26/17 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	* ^	0.20		mg/L			10/25/17 13:26	1
Nitrate Nitrite as N	**1.4**		0.40		mg/L			10/25/17 13:26	1
Chloride	**46**		0.90		mg/L			10/25/17 13:26	1
Sulfate	**45**		1.2		mg/L			10/25/17 13:26	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-03
Date Collected: 10/23/17 15:58
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1
Total Organic Carbon	**1.3**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**520**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**520**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**710**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: 1017-10
Date Collected: 10/23/17 17:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 11:54	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 11:54	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 11:54	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 11:54	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 11:54	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 11:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 11:54	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 11:54	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 11:54	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 11:54	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 11:54	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 11:54	1
2-Butanone	ND		15		ug/L			10/28/17 11:54	1
2-Hexanone	ND		2.0		ug/L			10/28/17 11:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 11:54	1
Acetone	ND	*	2.0		ug/L			10/28/17 11:54	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 11:54	1
Benzene	ND		0.20		ug/L			10/28/17 11:54	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 11:54	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 11:54	1
Bromoform	ND		0.50		ug/L			10/28/17 11:54	1
Bromomethane	ND		1.0		ug/L			10/28/17 11:54	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 11:54	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 11:54	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 11:54	1
Chloroethane	ND		0.50		ug/L			10/28/17 11:54	1
Chloroform	ND		0.20		ug/L			10/28/17 11:54	1
Chloromethane	ND		0.30		ug/L			10/28/17 11:54	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 11:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 11:54	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 11:54	1
Dibromomethane	ND		0.20		ug/L			10/28/17 11:54	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 11:54	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 11:54	1
Methyl iodide	ND		0.50		ug/L			10/28/17 11:54	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 11:54	1
o-Xylene	ND		0.50		ug/L			10/28/17 11:54	1
Styrene	ND		0.50		ug/L			10/28/17 11:54	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 11:54	1
Toluene	ND		0.20		ug/L			10/28/17 11:54	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 11:54	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 11:54	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 11:54	1
Trichloroethene	ND		0.20		ug/L			10/28/17 11:54	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 11:54	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 11:54	1

Client Sample ID: 1017-10
Date Collected: 10/23/17 17:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*10/28/17 11:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*10/28/17 11:54*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*10/28/17 11:54*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 11:54*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/28/17 11:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		1.0		ug/L			10/31/17 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/31/17 19:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/31/17 19:37*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/31/17 19:37*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*10/31/17 19:37*	*1*
Trifluorotoluene (Surr)	*103*		*74 - 118*		*10/31/17 19:37*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**78**		1.1		mg/L		10/26/17 09:43	10/26/17 19:00	1
Iron	ND		0.30		mg/L		10/26/17 09:43	10/26/17 19:00	1
Magnesium	**54**		1.1		mg/L		10/26/17 09:43	10/26/17 19:00	1
Manganese	**0.16**		0.020		mg/L		10/26/17 09:43	10/26/17 19:00	1
Potassium	**7.4**		3.3		mg/L		10/26/17 09:43	10/26/17 19:00	1
Sodium	**36**		2.0		mg/L		10/26/17 09:43	10/26/17 19:00	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Arsenic	**0.0077**		0.0010		mg/L		10/26/17 09:43	10/26/17 16:53	1
Barium	**0.040**		0.0012		mg/L		10/26/17 09:43	10/26/17 16:53	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Chromium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Copper	**0.0072**		0.0020		mg/L		10/26/17 09:43	10/26/17 16:53	1
Lead	ND		0.00080		mg/L		10/26/17 09:43	10/26/17 16:53	1
Nickel	ND		0.0030		mg/L		10/26/17 09:43	10/26/17 16:53	1
Selenium	ND		0.0080		mg/L		10/26/17 09:43	10/26/17 16:53	1
Silver	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Thallium	ND		0.0010		mg/L		10/26/17 09:43	10/26/17 16:53	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:43	10/26/17 16:53	1
Zinc	ND		0.0070		mg/L		10/26/17 09:43	10/26/17 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	* ^	0.20		mg/L			10/25/17 13:38	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 13:38	1
Chloride	**74**		0.90		mg/L			10/25/17 13:38	1
Sulfate	**32**		1.2		mg/L			10/25/17 13:38	1
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-10
Date Collected: 10/23/17 17:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-12
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.6**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**340**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**540**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-11
Date Collected: 10/23/17 17:30
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 12:20	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 12:20	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 12:20	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 12:20	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 12:20	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 12:20	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 12:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 12:20	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 12:20	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 12:20	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 12:20	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 12:20	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 12:20	1
2-Butanone	ND		15		ug/L			10/28/17 12:20	1
2-Hexanone	ND		2.0		ug/L			10/28/17 12:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 12:20	1
Acetone	ND	*	2.0		ug/L			10/28/17 12:20	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 12:20	1
Benzene	ND		0.20		ug/L			10/28/17 12:20	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 12:20	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 12:20	1
Bromoform	ND		0.50		ug/L			10/28/17 12:20	1
Bromomethane	ND		1.0		ug/L			10/28/17 12:20	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 12:20	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 12:20	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 12:20	1
Chloroethane	ND		0.50		ug/L			10/28/17 12:20	1
Chloroform	ND		0.20		ug/L			10/28/17 12:20	1
Chloromethane	ND		0.30		ug/L			10/28/17 12:20	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 12:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 12:20	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 12:20	1
Dibromomethane	ND		0.20		ug/L			10/28/17 12:20	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 12:20	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 12:20	1
Methyl iodide	ND		0.50		ug/L			10/28/17 12:20	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 12:20	1
o-Xylene	ND		0.50		ug/L			10/28/17 12:20	1
Styrene	ND		0.50		ug/L			10/28/17 12:20	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 12:20	1
Toluene	ND		0.20		ug/L			10/28/17 12:20	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 12:20	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 12:20	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 12:20	1
Trichloroethene	ND		0.20		ug/L			10/28/17 12:20	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 12:20	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 12:20	1

Client Sample ID: 1017-11
Date Collected: 10/23/17 17:30
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*10/28/17 12:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/28/17 12:20*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/28/17 12:20*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/28/17 12:20*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/28/17 12:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		1.0		ug/L			10/31/17 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*10/31/17 20:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/31/17 20:03*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/31/17 20:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*10/31/17 20:03*	*1*
Trifluorotoluene (Surr)	*100*		*74 - 118*		*10/31/17 20:03*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**79**		1.1		mg/L		10/26/17 09:43	10/26/17 19:03	1
Iron	ND		0.30		mg/L		10/26/17 09:43	10/26/17 19:03	1
Magnesium	**51**		1.1		mg/L		10/26/17 09:43	10/26/17 19:03	1
Manganese	**0.20**		0.020		mg/L		10/26/17 09:43	10/26/17 19:03	1
Potassium	**6.4**		3.3		mg/L		10/26/17 09:43	10/26/17 19:03	1
Sodium	**34**		2.0		mg/L		10/26/17 09:43	10/26/17 19:03	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Arsenic	**0.0055**		0.0010		mg/L		10/26/17 09:43	10/26/17 16:56	1
Barium	**0.030**		0.0012		mg/L		10/26/17 09:43	10/26/17 16:56	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Chromium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Copper	ND		0.0020		mg/L		10/26/17 09:43	10/26/17 16:56	1
Lead	ND		0.00080		mg/L		10/26/17 09:43	10/26/17 16:56	1
Nickel	ND		0.0030		mg/L		10/26/17 09:43	10/26/17 16:56	1
Selenium	ND		0.0080		mg/L		10/26/17 09:43	10/26/17 16:56	1
Silver	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Thallium	ND		0.0010		mg/L		10/26/17 09:43	10/26/17 16:56	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:43	10/26/17 16:56	1
Zinc	ND		0.0070		mg/L		10/26/17 09:43	10/26/17 16:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	* ^	0.20		mg/L			10/25/17 13:50	1
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 13:50	1
Chloride	**61**		0.90		mg/L			10/25/17 13:50	1
Sulfate	**31**		1.2		mg/L			10/25/17 13:50	1
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-11
Date Collected: 10/23/17 17:30
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2.4**		1.0		mg/L			10/27/17 17:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**530**		10		mg/L			10/25/17 15:04	1
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Client Sample ID: Trip Blank
Date Collected: 10/23/17 00:01
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 04:23	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 04:23	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 04:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 04:23	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 04:23	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 04:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 04:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 04:23	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 04:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 04:23	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 04:23	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 04:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 04:23	1
2-Butanone	ND		15		ug/L			10/28/17 04:23	1
2-Hexanone	ND		2.0		ug/L			10/28/17 04:23	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 04:23	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 04:23	1
Benzene	ND		0.20		ug/L			10/28/17 04:23	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 04:23	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 04:23	1
Bromoform	ND		0.50		ug/L			10/28/17 04:23	1
Bromomethane	ND		1.0		ug/L			10/28/17 04:23	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 04:23	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 04:23	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 04:23	1
Chloroethane	ND		0.50		ug/L			10/28/17 04:23	1
Chloroform	ND		0.20		ug/L			10/28/17 04:23	1
Chloromethane	ND		0.30		ug/L			10/28/17 04:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 04:23	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 04:23	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 04:23	1
Dibromomethane	ND		0.20		ug/L			10/28/17 04:23	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 04:23	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 04:23	1
Methyl iodide	ND		0.50		ug/L			10/28/17 04:23	1
Methylene Chloride	**0.81**		0.50		ug/L			10/28/17 04:23	1
o-Xylene	ND		0.50		ug/L			10/28/17 04:23	1
Styrene	ND		0.50		ug/L			10/28/17 04:23	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 04:23	1
Toluene	ND		0.20		ug/L			10/28/17 04:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 04:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 04:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 04:23	1
Trichloroethene	ND		0.20		ug/L			10/28/17 04:23	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 04:23	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/28/17 04:23*	*1*

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: Trip Blank
Date Collected: 10/23/17 00:01
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-14
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/28/17 04:23*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/28/17 04:23*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/28/17 04:23*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*10/28/17 04:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 13:25	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*		*10/31/17 13:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/31/17 13:25*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*10/31/17 13:25*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*10/31/17 13:25*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*10/31/17 13:25*	*1*

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

Lab Sample ID: MB 580-260113/5
Matrix: Water
Analysis Batch: 260113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 02:37	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/28/17 02:37	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/28/17 02:37	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/28/17 02:37	1
1,1-Dichloroethane	ND		0.20		ug/L			10/28/17 02:37	1
1,1-Dichloroethene	ND		0.10		ug/L			10/28/17 02:37	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/28/17 02:37	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/28/17 02:37	1
1,2-Dibromoethane	ND		0.10		ug/L			10/28/17 02:37	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/28/17 02:37	1
1,2-Dichloroethane	ND		0.20		ug/L			10/28/17 02:37	1
1,2-Dichloropropane	ND		0.20		ug/L			10/28/17 02:37	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/28/17 02:37	1
2-Butanone	ND		15		ug/L			10/28/17 02:37	1
2-Hexanone	ND		2.0		ug/L			10/28/17 02:37	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/28/17 02:37	1
Acetone	ND		2.0		ug/L			10/28/17 02:37	1
Acrylonitrile	ND		5.0		ug/L			10/28/17 02:37	1
Benzene	ND		0.20		ug/L			10/28/17 02:37	1
Bromochloromethane	ND		0.20		ug/L			10/28/17 02:37	1
Bromodichloromethane	ND		0.20		ug/L			10/28/17 02:37	1
Bromoform	ND		0.50		ug/L			10/28/17 02:37	1
Bromomethane	ND		1.0		ug/L			10/28/17 02:37	1
Carbon disulfide	ND		0.20		ug/L			10/28/17 02:37	1
Carbon tetrachloride	ND		0.20		ug/L			10/28/17 02:37	1
Chlorobenzene	ND		0.20		ug/L			10/28/17 02:37	1
Chloroethane	ND		0.50		ug/L			10/28/17 02:37	1
Chloroform	ND		0.20		ug/L			10/28/17 02:37	1
Chloromethane	ND		0.30		ug/L			10/28/17 02:37	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 02:37	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/28/17 02:37	1
Dibromochloromethane	ND		0.20		ug/L			10/28/17 02:37	1
Dibromomethane	ND		0.20		ug/L			10/28/17 02:37	1
Ethylbenzene	ND		0.20		ug/L			10/28/17 02:37	1
m,p-Xylene	ND		0.50		ug/L			10/28/17 02:37	1
Methyl iodide	ND		0.50		ug/L			10/28/17 02:37	1
Methylene Chloride	ND		0.50		ug/L			10/28/17 02:37	1
o-Xylene	ND		0.50		ug/L			10/28/17 02:37	1
Styrene	ND		0.50		ug/L			10/28/17 02:37	1
Tetrachloroethene	ND		0.50		ug/L			10/28/17 02:37	1
Toluene	ND		0.20		ug/L			10/28/17 02:37	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/28/17 02:37	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/28/17 02:37	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/28/17 02:37	1
Trichloroethene	ND		0.20		ug/L			10/28/17 02:37	1
Trichlorofluoromethane	ND		0.50		ug/L			10/28/17 02:37	1
Vinyl acetate	ND		1.0		ug/L			10/28/17 02:37	1
Vinyl chloride	ND		0.020		ug/L			10/28/17 02:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		46 - 150		10/28/17 02:37	1
4-Bromofluorobenzene (Surr)	95		81 - 120		10/28/17 02:37	1
Dibromofluoromethane (Surr)	100		42 - 132		10/28/17 02:37	1
Toluene-d8 (Surr)	109		75 - 125		10/28/17 02:37	1
Trifluorotoluene (Surr)	123	X	74 - 118		10/28/17 02:37	1

Lab Sample ID: LCS 580-260113/6
Matrix: Water
Analysis Batch: 260113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.10		ug/L		102	68 - 139
1,1,1-Trichloroethane	5.00	4.71		ug/L		94	56 - 150
1,1,2,2-Tetrachloroethane	5.00	3.96		ug/L		79	60 - 134
1,1,2-Trichloroethane	5.00	5.29		ug/L		106	62 - 137
1,1-Dichloroethane	5.00	4.90		ug/L		98	68 - 135
1,1-Dichloroethene	5.00	4.56		ug/L		91	64 - 125
1,2,3-Trichloropropane	5.00	5.42		ug/L		108	45 - 150
1,2-Dibromo-3-Chloropropane	5.00	5.10		ug/L		102	34 - 150
1,2-Dibromoethane	5.00	5.16		ug/L		103	56 - 146
1,2-Dichlorobenzene	5.00	5.19		ug/L		104	73 - 120
1,2-Dichloroethane	5.00	5.19		ug/L		104	63 - 150
1,2-Dichloropropane	5.00	4.79		ug/L		96	72 - 120
1,4-Dichlorobenzene	5.00	5.20		ug/L		104	77 - 120
2-Butanone	25.0	26.5		ug/L		106	30 - 150
2-Hexanone	25.0	28.4		ug/L		113	25 - 150
4-Methyl-2-pentanone	25.0	27.1		ug/L		108	36 - 150
Acetone	25.0	35.9	*	ug/L		144	20 - 138
Acrylonitrile	50.0	49.1		ug/L		98	55 - 134
Benzene	5.00	4.78		ug/L		96	73 - 120
Bromochloromethane	5.00	4.53		ug/L		91	71 - 131
Bromodichloromethane	5.00	4.79		ug/L		96	62 - 150
Bromoform	5.00	4.40		ug/L		88	51 - 137
Bromomethane	5.00	3.98		ug/L		80	61 - 135
Carbon disulfide	5.00	4.52		ug/L		90	65 - 128
Carbon tetrachloride	5.00	4.76		ug/L		95	54 - 150
Chlorobenzene	5.00	5.02		ug/L		100	74 - 114
Chloroethane	5.00	4.73		ug/L		95	58 - 130
Chloroform	5.00	4.77		ug/L		95	71 - 130
Chloromethane	5.00	3.99		ug/L		80	40 - 150
cis-1,2-Dichloroethene	5.00	4.52		ug/L		90	73 - 130
cis-1,3-Dichloropropene	5.00	5.10		ug/L		102	54 - 150
Dibromochloromethane	5.00	5.15		ug/L		103	46 - 150
Dibromomethane	5.00	4.39		ug/L		88	65 - 137
Ethylbenzene	5.00	5.19		ug/L		104	74 - 125
m,p-Xylene	5.00	5.02		ug/L		100	73 - 130
Methyl iodide	5.00	4.52		ug/L		90	47 - 145
Methylene Chloride	5.00	4.68		ug/L		94	58 - 134
o-Xylene	5.00	5.18		ug/L		104	80 - 139
Styrene	5.00	4.79		ug/L		96	68 - 136
Tetrachloroethene	5.00	5.08		ug/L		102	67 - 123
Toluene	5.00	5.29		ug/L		106	70 - 126
trans-1,2-Dichloroethene	5.00	4.44		ug/L		89	69 - 124
trans-1,3-Dichloropropene	5.00	4.85		ug/L		97	40 - 150

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

Lab Sample ID: LCS 580-260113/6
Matrix: Water
Analysis Batch: 260113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	3.55		ug/L		71	20 - 150
Trichloroethene	5.00	5.23		ug/L		105	72 - 123
Trichlorofluoromethane	5.00	4.64		ug/L		93	60 - 150
Vinyl chloride	5.00	4.50		ug/L		90	59 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
Toluene-d8 (Surr)	*107*		*75 - 125*
Trifluorotoluene (Surr)	*114*		*74 - 118*

Lab Sample ID: LCSD 580-260113/7
Matrix: Water
Analysis Batch: 260113

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.39		ug/L		108	68 - 139	5	20
1,1,1-Trichloroethane	5.00	5.04		ug/L		101	56 - 150	7	29
1,1,2,2-Tetrachloroethane	5.00	4.35		ug/L		87	60 - 134	10	25
1,1,2-Trichloroethane	5.00	5.56		ug/L		111	62 - 137	5	30
1,1-Dichloroethane	5.00	5.22		ug/L		104	68 - 135	6	27
1,1-Dichloroethene	5.00	4.88		ug/L		98	64 - 125	7	28
1,2,3-Trichloropropane	5.00	5.56		ug/L		111	45 - 150	3	20
1,2-Dibromo-3-Chloropropane	5.00	4.97		ug/L		99	34 - 150	2	20
1,2-Dibromoethane	5.00	5.17		ug/L		103	56 - 146	0	20
1,2-Dichlorobenzene	5.00	5.41		ug/L		108	73 - 120	4	14
1,2-Dichloroethane	5.00	5.29		ug/L		106	63 - 150	2	29
1,2-Dichloropropane	5.00	4.95		ug/L		99	72 - 120	3	20
1,4-Dichlorobenzene	5.00	5.39		ug/L		108	77 - 120	4	11
2-Butanone	25.0	26.7		ug/L		107	30 - 150	1	35
2-Hexanone	25.0	26.9		ug/L		107	25 - 150	5	28
4-Methyl-2-pentanone	25.0	27.1		ug/L		108	36 - 150	0	34
Acetone	25.0	35.7	*	ug/L		143	20 - 138	1	35
Acrylonitrile	50.0	51.1		ug/L		102	55 - 134	4	35
Benzene	5.00	5.02		ug/L		100	73 - 120	5	20
Bromochloromethane	5.00	4.81		ug/L		96	71 - 131	6	20
Bromodichloromethane	5.00	4.99		ug/L		100	62 - 150	4	20
Bromoform	5.00	4.58		ug/L		92	51 - 137	4	20
Bromomethane	5.00	4.38		ug/L		88	61 - 135	10	31
Carbon disulfide	5.00	4.90		ug/L		98	65 - 128	8	32
Carbon tetrachloride	5.00	5.03		ug/L		101	54 - 150	5	30
Chlorobenzene	5.00	5.30		ug/L		106	74 - 114	6	12
Chloroethane	5.00	4.94		ug/L		99	58 - 130	4	35
Chloroform	5.00	5.18		ug/L		104	71 - 130	8	20
Chloromethane	5.00	4.43		ug/L		89	40 - 150	11	31
cis-1,2-Dichloroethene	5.00	4.84		ug/L		97	73 - 130	7	20
cis-1,3-Dichloropropene	5.00	5.16		ug/L		103	54 - 150	1	28

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

Lab Sample ID: LCSD 580-260113/7
Matrix: Water
Analysis Batch: 260113

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane			5.00	5.30		ug/L		106	46 - 150	3	20
Dibromomethane			5.00	4.66		ug/L		93	65 - 137	6	20
Ethylbenzene			5.00	5.39		ug/L		108	74 - 125	4	20
m,p-Xylene			5.00	5.29		ug/L		106	73 - 130	5	20
Methyl iodide			5.00	4.87		ug/L		97	47 - 145	8	35
Methylene Chloride			5.00	4.91		ug/L		98	58 - 134	5	29
o-Xylene			5.00	5.49		ug/L		110	80 - 139	6	20
Styrene			5.00	5.02		ug/L		100	68 - 136	5	20
Tetrachloroethene			5.00	5.17		ug/L		103	67 - 123	2	20
Toluene			5.00	5.53		ug/L		111	70 - 126	5	20
trans-1,2-Dichloroethene			5.00	4.83		ug/L		97	69 - 124	8	27
trans-1,3-Dichloropropene			5.00	5.00		ug/L		100	40 - 150	3	30
trans-1,4-Dichloro-2-butene			5.00	3.82		ug/L		76	20 - 150	7	20
Trichloroethene			5.00	5.32		ug/L		106	72 - 123	2	20
Trichlorofluoromethane			5.00	4.95		ug/L		99	60 - 150	6	31
Vinyl chloride			5.00	4.73		ug/L		95	59 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
Dibromofluoromethane (Surr)	*101*		*42 - 132*
Toluene-d8 (Surr)	*104*		*75 - 125*
Trifluorotoluene (Surr)	*112*		*74 - 118*

Lab Sample ID: MB 580-260389/5
Matrix: Water
Analysis Batch: 260389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.0		ug/L			10/31/17 12:06	1
Vinyl acetate	ND		1.0		ug/L			10/31/17 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*10/31/17 12:06*	*1*
4-Bromofluorobenzene (Surr)	*97*		*81 - 120*		*10/31/17 12:06*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*10/31/17 12:06*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*10/31/17 12:06*	*1*
Trifluorotoluene (Surr)	*106*		*74 - 118*		*10/31/17 12:06*	*1*

Lab Sample ID: LCS 580-260389/6
Matrix: Water
Analysis Batch: 260389

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone			25.0	26.2		ug/L		105	20 - 138
Vinyl acetate			12.5	13.8		ug/L		111	30 - 150

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

Lab Sample ID: LCS 580-260389/6
Matrix: Water
Analysis Batch: 260389

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
Toluene-d8 (Surr)	*98*		*75 - 125*
Trifluorotoluene (Surr)	*103*		*74 - 118*

Lab Sample ID: LCSD 580-260389/7
Matrix: Water
Analysis Batch: 260389

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			25.0	28.1		ug/L		112	20 - 138	7	35
Vinyl acetate			12.5	15.5		ug/L		124	30 - 150	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*46 - 150*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*
Dibromofluoromethane (Surr)	*99*		*42 - 132*
Toluene-d8 (Surr)	*99*		*75 - 125*
Trifluorotoluene (Surr)	*103*		*74 - 118*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-259881/22-A
Matrix: Water
Analysis Batch: 259991

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		10/26/17 09:14	10/26/17 16:35	1
Iron	ND		0.30		mg/L		10/26/17 09:14	10/26/17 16:35	1
Magnesium	ND		1.1		mg/L		10/26/17 09:14	10/26/17 16:35	1
Manganese	ND		0.020		mg/L		10/26/17 09:14	10/26/17 16:35	1
Potassium	ND		3.3		mg/L		10/26/17 09:14	10/26/17 16:35	1
Sodium	ND		2.0		mg/L		10/26/17 09:14	10/26/17 16:35	1

Lab Sample ID: LCS 580-259881/23-A
Matrix: Water
Analysis Batch: 259991

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Calcium			20.0	21.3		mg/L		107	80 - 120		
Iron			22.0	20.9		mg/L		95	80 - 120		
Magnesium			20.0	21.2		mg/L		106	80 - 120		
Manganese			1.00	1.07		mg/L		107	80 - 120		
Potassium			20.0	20.4		mg/L		102	80 - 120		
Sodium			20.0	21.9		mg/L		110	80 - 120		

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-259881/24-A
Matrix: Water
Analysis Batch: 259991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	20.9		mg/L		105	80 - 120	2	20
Iron			22.0	20.5		mg/L		93	80 - 120	2	20
Magnesium			20.0	20.9		mg/L		104	80 - 120	2	20
Manganese			1.00	1.06		mg/L		106	80 - 120	1	20
Potassium			20.0	19.9		mg/L		99	80 - 120	2	20
Sodium			20.0	21.4		mg/L		107	80 - 120	2	20

Lab Sample ID: MB 580-259887/22-A
Matrix: Water
Analysis Batch: 259991

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		10/26/17 09:43	10/26/17 17:53	1
Iron	ND		0.30		mg/L		10/26/17 09:43	10/26/17 17:53	1
Magnesium	ND		1.1		mg/L		10/26/17 09:43	10/26/17 17:53	1
Manganese	ND		0.020		mg/L		10/26/17 09:43	10/26/17 17:53	1
Potassium	ND		3.3		mg/L		10/26/17 09:43	10/26/17 17:53	1
Sodium	ND		2.0		mg/L		10/26/17 09:43	10/26/17 17:53	1

Lab Sample ID: LCS 580-259887/23-A
Matrix: Water
Analysis Batch: 259991

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	20.4		mg/L		102	80 - 120
Iron			22.0	19.7		mg/L		89	80 - 120
Magnesium			20.0	20.4		mg/L		102	80 - 120
Manganese			1.00	1.03		mg/L		103	80 - 120
Potassium			20.0	19.4		mg/L		97	80 - 120
Sodium			20.0	20.7		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-259887/24-A
Matrix: Water
Analysis Batch: 259991

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium			20.0	20.8		mg/L		104	80 - 120	2	20
Iron			22.0	20.0		mg/L		91	80 - 120	1	20
Magnesium			20.0	20.6		mg/L		103	80 - 120	1	20
Manganese			1.00	1.04		mg/L		104	80 - 120	1	20
Potassium			20.0	19.6		mg/L		98	80 - 120	1	20
Sodium			20.0	21.0		mg/L		105	80 - 120	2	20

Lab Sample ID: 580-72358-1 MS
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-20
Prep Type: Dissolved
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	78	F1	20.0	95.0		mg/L		86	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-72358-1 MS
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-20
Prep Type: Dissolved
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		22.0	21.4		mg/L		97	75 - 125
Magnesium	29		20.0	47.9		mg/L		95	75 - 125
Manganese	0.043		1.00	1.08		mg/L		104	75 - 125
Potassium	6.8		20.0	26.4		mg/L		98	75 - 125
Sodium	24		20.0	44.0		mg/L		100	75 - 125

Lab Sample ID: 580-72358-1 MSD
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-20
Prep Type: Dissolved
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	78	F1	20.0	91.5	F1	mg/L		68	75 - 125	4	20
Iron	ND		22.0	21.0		mg/L		95	75 - 125	2	20
Magnesium	29		20.0	46.7		mg/L		88	75 - 125	3	20
Manganese	0.043		1.00	1.07		mg/L		102	75 - 125	1	20
Potassium	6.8		20.0	25.9		mg/L		96	75 - 125	2	20
Sodium	24		20.0	42.7		mg/L		94	75 - 125	3	20

Lab Sample ID: 580-72358-1 DU
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-20
Prep Type: Dissolved
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	78	F1	72.6		mg/L		7	20
Iron	ND		ND		mg/L		NC	20
Magnesium	29		27.0		mg/L		7	20
Manganese	0.043		0.0410		mg/L		4	20
Potassium	6.8		6.28		mg/L		7	20
Sodium	24		22.3		mg/L		7	20

Lab Sample ID: 580-72358-10 MS
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-04
Prep Type: Dissolved
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	40		20.0	58.1		mg/L		91	75 - 125
Iron	ND		22.0	20.3		mg/L		91	75 - 125
Magnesium	28		20.0	46.5		mg/L		92	75 - 125
Manganese	0.072		1.00	1.07		mg/L		100	75 - 125
Potassium	11		20.0	29.3		mg/L		91	75 - 125
Sodium	35		20.0	53.1		mg/L		92	75 - 125

Lab Sample ID: 580-72358-10 MSD
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-04
Prep Type: Dissolved
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	40		20.0	58.9		mg/L		95	75 - 125	1	20
Iron	ND		22.0	20.8		mg/L		94	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-72358-10 MSD
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-04
Prep Type: Dissolved
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Magnesium	28		20.0	47.0		mg/L		94	75 - 125	1	20
Manganese	0.072		1.00	1.08		mg/L		101	75 - 125	1	20
Potassium	11		20.0	29.7		mg/L		94	75 - 125	2	20
Sodium	35		20.0	53.6		mg/L		95	75 - 125	1	20

Lab Sample ID: 580-72358-10 DU
Matrix: Water
Analysis Batch: 259991

Client Sample ID: 1017-04
Prep Type: Dissolved
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	40		39.7		mg/L		0.7	20
Iron	ND		ND		mg/L		NC	20
Magnesium	28		27.8		mg/L		1	20
Manganese	0.072		0.0719		mg/L		0.7	20
Potassium	11		11.0		mg/L		0.6	20
Sodium	35		34.5		mg/L		0.7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-259881/22-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Arsenic	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 14:59	1
Barium	ND		0.0012		mg/L		10/26/17 09:14	10/26/17 14:59	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Chromium	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Copper	ND		0.0020		mg/L		10/26/17 09:14	10/26/17 14:59	1
Lead	ND		0.00080		mg/L		10/26/17 09:14	10/26/17 14:59	1
Nickel	ND		0.0030		mg/L		10/26/17 09:14	10/26/17 14:59	1
Selenium	ND		0.0080		mg/L		10/26/17 09:14	10/26/17 14:59	1
Silver	ND		0.00040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Thallium	ND		0.0010		mg/L		10/26/17 09:14	10/26/17 14:59	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:14	10/26/17 14:59	1
Zinc	ND		0.0070		mg/L		10/26/17 09:14	10/26/17 14:59	1

Lab Sample ID: LCS 580-259881/23-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.89		mg/L		96	80 - 120
Arsenic	4.00	3.91		mg/L		98	80 - 120
Barium	4.00	3.83		mg/L		96	80 - 120
Beryllium	0.100	0.0989		mg/L		99	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-259881/23-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.100	0.102		mg/L		102	80 - 120
Chromium	0.400	0.392		mg/L		98	80 - 120
Cobalt	1.00	0.984		mg/L		98	80 - 120
Copper	0.500	0.508		mg/L		102	80 - 120
Lead	1.00	0.953		mg/L		95	80 - 120
Nickel	1.00	0.988		mg/L		99	80 - 120
Selenium	4.00	3.87		mg/L		97	80 - 120
Silver	0.600	0.593		mg/L		99	80 - 120
Thallium	4.00	3.63		mg/L		91	80 - 120
Vanadium	1.00	0.975		mg/L		97	80 - 120
Zinc	4.00	3.84		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-259881/24-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.75		mg/L		92	80 - 120	5	20
Arsenic	4.00	3.83		mg/L		96	80 - 120	2	20
Barium	4.00	3.76		mg/L		94	80 - 120	2	20
Beryllium	0.100	0.0952		mg/L		95	80 - 120	4	20
Cadmium	0.100	0.0930		mg/L		93	80 - 120	9	20
Chromium	0.400	0.386		mg/L		97	80 - 120	2	20
Cobalt	1.00	0.956		mg/L		96	80 - 120	3	20
Copper	0.500	0.503		mg/L		101	80 - 120	1	20
Lead	1.00	0.941		mg/L		94	80 - 120	1	20
Nickel	1.00	0.959		mg/L		96	80 - 120	3	20
Selenium	4.00	3.90		mg/L		98	80 - 120	1	20
Silver	0.600	0.575		mg/L		96	80 - 120	3	20
Thallium	4.00	3.55		mg/L		89	80 - 120	2	20
Vanadium	1.00	0.959		mg/L		96	80 - 120	2	20
Zinc	4.00	3.77		mg/L		94	80 - 120	2	20

Lab Sample ID: 580-72358-1 MS
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-20
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.84		mg/L		95	80 - 120
Arsenic	0.0080		4.00	3.93		mg/L		98	80 - 120
Barium	0.027		4.00	3.79		mg/L		94	80 - 120
Beryllium	ND		0.100	0.0986		mg/L		99	80 - 120
Cadmium	ND		0.100	0.0968		mg/L		97	80 - 120
Chromium	ND		0.400	0.402		mg/L		100	80 - 120
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120
Copper	0.0020		0.500	0.519		mg/L		103	80 - 120
Lead	ND		1.00	0.968		mg/L		97	80 - 120
Nickel	ND		1.00	0.988		mg/L		99	80 - 120
Selenium	ND		4.00	3.91		mg/L		98	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-72358-1 MS
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-20
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		0.600	0.579		mg/L		96	80 - 120
Thallium	ND		4.00	3.74		mg/L		93	80 - 120
Vanadium	ND		1.00	0.990		mg/L		99	80 - 120
Zinc	ND		4.00	3.91		mg/L		98	80 - 120

Lab Sample ID: 580-72358-1 MSD
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-20
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.95		mg/L		98	80 - 120	4	20
Arsenic	0.0080		4.00	4.03		mg/L		100	80 - 120	2	20
Barium	0.027		4.00	4.01		mg/L		100	80 - 120	5	20
Beryllium	ND		0.100	0.0984		mg/L		98	80 - 120	0	20
Cadmium	ND		0.100	0.102		mg/L		102	80 - 120	5	20
Chromium	ND		0.400	0.409		mg/L		102	80 - 120	2	20
Cobalt	ND		1.00	1.03		mg/L		103	80 - 120	2	20
Copper	0.0020		0.500	0.529		mg/L		105	80 - 120	2	20
Lead	ND		1.00	0.989		mg/L		99	80 - 120	2	20
Nickel	ND		1.00	1.00		mg/L		100	80 - 120	1	20
Selenium	ND		4.00	4.03		mg/L		101	80 - 120	3	20
Silver	ND		0.600	0.594		mg/L		99	80 - 120	3	20
Thallium	ND		4.00	3.78		mg/L		94	80 - 120	1	20
Vanadium	ND		1.00	1.01		mg/L		101	80 - 120	2	20
Zinc	ND		4.00	3.95		mg/L		99	80 - 120	1	20

Lab Sample ID: 580-72358-1 DU
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-20
Prep Type: Total Recoverable
Prep Batch: 259881

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0080		0.00739		mg/L		8	20
Barium	0.027		0.0255		mg/L		6	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.0020		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-259887/22-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Arsenic	ND		0.0010		mg/L		10/26/17 09:43	10/26/17 16:13	1
Barium	ND		0.0012		mg/L		10/26/17 09:43	10/26/17 16:13	1
Beryllium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Cadmium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Chromium	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Cobalt	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Copper	ND		0.0020		mg/L		10/26/17 09:43	10/26/17 16:13	1
Lead	ND		0.00080		mg/L		10/26/17 09:43	10/26/17 16:13	1
Nickel	ND		0.0030		mg/L		10/26/17 09:43	10/26/17 16:13	1
Selenium	ND		0.0080		mg/L		10/26/17 09:43	10/26/17 16:13	1
Silver	ND		0.00040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Thallium	ND		0.0010		mg/L		10/26/17 09:43	10/26/17 16:13	1
Vanadium	ND		0.0040		mg/L		10/26/17 09:43	10/26/17 16:13	1
Zinc	ND		0.0070		mg/L		10/26/17 09:43	10/26/17 16:13	1

Lab Sample ID: LCS 580-259887/23-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.87		mg/L		96	80 - 120
Arsenic	4.00	3.94		mg/L		98	80 - 120
Barium	4.00	3.86		mg/L		97	80 - 120
Beryllium	0.100	0.0959		mg/L		96	80 - 120
Cadmium	0.100	0.0974		mg/L		97	80 - 120
Chromium	0.400	0.396		mg/L		99	80 - 120
Cobalt	1.00	0.990		mg/L		99	80 - 120
Copper	0.500	0.527		mg/L		105	80 - 120
Lead	1.00	0.949		mg/L		95	80 - 120
Nickel	1.00	0.998		mg/L		100	80 - 120
Selenium	4.00	3.91		mg/L		98	80 - 120
Silver	0.600	0.590		mg/L		98	80 - 120
Thallium	4.00	3.58		mg/L		90	80 - 120
Vanadium	1.00	0.988		mg/L		99	80 - 120
Zinc	4.00	3.87		mg/L		97	80 - 120

Lab Sample ID: LCSD 580-259887/24-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.85		mg/L		95	80 - 120	1	20
Arsenic	4.00	3.95		mg/L		99	80 - 120	0	20
Barium	4.00	3.80		mg/L		95	80 - 120	2	20
Beryllium	0.100	0.0921		mg/L		92	80 - 120	4	20
Cadmium	0.100	0.0954		mg/L		95	80 - 120	2	20
Chromium	0.400	0.393		mg/L		98	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-259887/24-A
Matrix: Water
Analysis Batch: 259990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			1.00	0.992		mg/L		99	80 - 120	0	20
Copper			0.500	0.526		mg/L		105	80 - 120	0	20
Lead			1.00	0.965		mg/L		97	80 - 120	2	20
Nickel			1.00	1.01		mg/L		101	80 - 120	1	20
Selenium			4.00	3.91		mg/L		98	80 - 120	0	20
Silver			0.600	0.585		mg/L		97	80 - 120	1	20
Thallium			4.00	3.68		mg/L		92	80 - 120	3	20
Vanadium			1.00	0.985		mg/L		99	80 - 120	0	20
Zinc			4.00	3.90		mg/L		97	80 - 120	1	20

Lab Sample ID: 580-72358-10 MS
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-04
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.90		mg/L		97	80 - 120
Arsenic	0.014		4.00	3.91		mg/L		97	80 - 120
Barium	0.032		4.00	3.83		mg/L		95	80 - 120
Beryllium	ND		0.100	0.0956		mg/L		96	80 - 120
Cadmium	ND		0.100	0.0989		mg/L		99	80 - 120
Chromium	ND		0.400	0.392		mg/L		98	80 - 120
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120
Copper	ND		0.500	0.516		mg/L		103	80 - 120
Lead	ND		1.00	0.966		mg/L		97	80 - 120
Nickel	ND		1.00	0.985		mg/L		98	80 - 120
Selenium	ND		4.00	3.90		mg/L		98	80 - 120
Silver	ND		0.600	0.586		mg/L		98	80 - 120
Thallium	ND		4.00	3.73		mg/L		93	80 - 120
Vanadium	ND		1.00	0.977		mg/L		98	80 - 120
Zinc	ND		4.00	3.89		mg/L		97	80 - 120

Lab Sample ID: 580-72358-10 MSD
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-04
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.85		mg/L		95	80 - 120	2	20
Arsenic	0.014		4.00	3.93		mg/L		98	80 - 120	0	20
Barium	0.032		4.00	3.84		mg/L		95	80 - 120	0	20
Beryllium	ND		0.100	0.100		mg/L		100	80 - 120	5	20
Cadmium	ND		0.100	0.103		mg/L		103	80 - 120	4	20
Chromium	ND		0.400	0.396		mg/L		99	80 - 120	1	20
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120	0	20
Copper	ND		0.500	0.514		mg/L		103	80 - 120	0	20
Lead	ND		1.00	0.957		mg/L		96	80 - 120	1	20
Nickel	ND		1.00	0.992		mg/L		99	80 - 120	1	20
Selenium	ND		4.00	3.91		mg/L		98	80 - 120	0	20
Silver	ND		0.600	0.580		mg/L		97	80 - 120	1	20
Thallium	ND		4.00	3.68		mg/L		92	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-72358-10 MSD
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-04
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	ND		1.00	0.983		mg/L		98	80 - 120	1	20
Zinc	ND		4.00	3.90		mg/L		97	80 - 120	0	20

Lab Sample ID: 580-72358-10 DU
Matrix: Water
Analysis Batch: 259990

Client Sample ID: 1017-04
Prep Type: Total Recoverable
Prep Batch: 259887

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.014		0.0140		mg/L		3	20
Barium	0.032		0.0302		mg/L		5	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-259882/3
Matrix: Water
Analysis Batch: 259882

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.40		mg/L			10/25/17 09:56	1

Lab Sample ID: LCS 580-259882/4
Matrix: Water
Analysis Batch: 259882

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: 580-72358-2 MS
Matrix: Water
Analysis Batch: 259882

Client Sample ID: 1017-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		10.0	10.4		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-72358-2 MSD
Matrix: Water
Analysis Batch: 259882

Client Sample ID: 1017-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		10.0	10.4		mg/L		104	90 - 110	0	15

Lab Sample ID: 580-72358-9 MS
Matrix: Water
Analysis Batch: 259882

Client Sample ID: 1017-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND		10.0	10.9		mg/L		109	90 - 110

Lab Sample ID: 580-72358-9 MSD
Matrix: Water
Analysis Batch: 259882

Client Sample ID: 1017-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND		10.0	10.9		mg/L		109	90 - 110	0	15

Lab Sample ID: MB 580-259885/3
Matrix: Water
Analysis Batch: 259885

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	^	0.20		mg/L			10/25/17 09:56	1
Chloride	ND		0.90		mg/L			10/25/17 09:56	1
Sulfate	ND		1.2		mg/L			10/25/17 09:56	1

Lab Sample ID: LCS 580-259885/4
Matrix: Water
Analysis Batch: 259885

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.78	^ *	mg/L		116	90 - 110
Chloride	50.0	53.4		mg/L		107	90 - 110
Sulfate	50.0	52.2		mg/L		104	90 - 110

Lab Sample ID: 580-72358-2 MS
Matrix: Water
Analysis Batch: 259885

Client Sample ID: 1017-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND	F1 ^ *	5.00	5.81	^ F1	mg/L		115	90 - 110
Chloride	38		50.0	89.2		mg/L		103	90 - 110
Sulfate	25		50.0	77.7		mg/L		106	90 - 110

Lab Sample ID: 580-72358-2 MSD
Matrix: Water
Analysis Batch: 259885

Client Sample ID: 1017-32
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1 ^ *	5.00	5.81	^ F1	mg/L		115	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-72358-2 MSD — **Client Sample ID: 1017-32**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	38		50.0	89.3		mg/L		104	90 - 110	0	15
Sulfate	25		50.0	77.7		mg/L		106	90 - 110	0	15

Lab Sample ID: 580-72358-9 MS — **Client Sample ID: 1017-07**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND	F1 * ^	5.00	6.13	^ F1	mg/L		120	90 - 110
Chloride	38		50.0	92.0		mg/L		107	90 - 110
Sulfate	38		50.0	92.4		mg/L		109	90 - 110

Lab Sample ID: 580-72358-9 MSD — **Client Sample ID: 1017-07**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 259885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1 * ^	5.00	6.15	^ F1	mg/L		121	90 - 110	0	15
Chloride	38		50.0	92.2		mg/L		108	90 - 110	0	15
Sulfate	38		50.0	92.5		mg/L		110	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-260699/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260717 — **Prep Batch: 260699**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/03/17 15:00	11/04/17 16:54	1

Lab Sample ID: LCS 580-260699/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260717 — **Prep Batch: 260699**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.91		mg/L		96	90 - 110

Lab Sample ID: 580-72358-1 MS — **Client Sample ID: 1017-20**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260717 — **Prep Batch: 260699**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND	F1	2.00	1.95	F1	mg/L		89	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 580-72358-1 MSD
Matrix: Water
Analysis Batch: 260717

Client Sample ID: 1017-20
Prep Type: Total/NA
Prep Batch: 260699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F1	2.00	1.94	F1	mg/L		89	90 - 110	1	20

Lab Sample ID: 580-72358-1 DU
Matrix: Water
Analysis Batch: 260717

Client Sample ID: 1017-20
Prep Type: Total/NA
Prep Batch: 260699

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND	F1	ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-260167/2
Matrix: Water
Analysis Batch: 260167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	93.7		mg/L		94	85 - 115

Lab Sample ID: 580-72358-1 DU
Matrix: Water
Analysis Batch: 260167

Client Sample ID: 1017-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	240		256		mg/L		8	17
Bicarbonate Alkalinity as CaCO3	240		256		mg/L		8	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-259822/1
Matrix: Water
Analysis Batch: 259822

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			10/25/17 15:04	1

Lab Sample ID: LCS 580-259822/2
Matrix: Water
Analysis Batch: 259822

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	944		mg/L		94	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 580-72358-1 DU
Matrix: Water
Analysis Batch: 259822

Client Sample ID: 1017-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	390			391		mg/L				2	20

Lab Sample ID: 580-72358-13 DU
Matrix: Water
Analysis Batch: 259822

Client Sample ID: 1017-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	530			520		mg/L				1	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-260076/3-A
Matrix: Water
Analysis Batch: 260077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260076

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		10/27/17 11:00	10/27/17 11:00	1

Lab Sample ID: LCS 580-260076/4-A
Matrix: Water
Analysis Batch: 260077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260076

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	77.2		mg/L		103	80 - 120		

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-260208/22
Matrix: Water
Analysis Batch: 260208

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			10/27/17 17:35	1

Lab Sample ID: MB 580-260208/3
Matrix: Water
Analysis Batch: 260208

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			10/27/17 17:35	1

Lab Sample ID: LCS 580-260208/23
Matrix: Water
Analysis Batch: 260208

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			10.0	9.70		mg/L		97	85 - 115		

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-260208/4
Matrix: Water
Analysis Batch: 260208

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.91		mg/L		99	85 - 115

Lab Sample ID: 580-72358-6 MS
Matrix: Water
Analysis Batch: 260208

Client Sample ID: 1017-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.2		10.0	13.3		mg/L		100	85 - 115

Lab Sample ID: 580-72358-6 MSD
Matrix: Water
Analysis Batch: 260208

Client Sample ID: 1017-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	3.2		10.0	13.4		mg/L		102	85 - 115	1	20

Lab Sample ID: 580-72358-6 DU
Matrix: Water
Analysis Batch: 260208

Client Sample ID: 1017-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	3.2		3.22		mg/L		0.2	20

Client Sample ID: 1017-20

Date Collected: 10/23/17 10:34
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 07:02	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 14:45	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 16:44	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:08	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 10:31	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 10:31	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-32

Date Collected: 10/23/17 10:45
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 07:29	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 15:12	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:16	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:36	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 10:43	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 10:43	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-21

Date Collected: 10/23/17 10:31
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 07:55	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 15:38	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:19	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:39	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 10:19	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 10:19	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-16

Date Collected: 10/23/17 11:55
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 08:22	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 16:05	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:23	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:42	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 11:18	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 11:18	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-15

Date Collected: 10/23/17 12:04
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 08:48	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 16:31	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:26	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:45	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 11:29	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 11:29	MMM	TAL SEA
Total/NA	Analysis	300.0		5	259885	10/25/17 14:37	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-22

Date Collected: 10/23/17 13:16
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 09:15	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 16:58	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:29	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:48	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 12:16	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 12:16	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-23

Date Collected: 10/23/17 13:07
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 09:41	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 17:24	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:33	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 11:41	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 11:41	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-06

Date Collected: 10/23/17 14:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 10:07	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 17:51	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:36	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:55	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 12:28	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 12:28	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-07

Date Collected: 10/23/17 14:33
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 10:34	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 18:17	P1P	TAL SEA
Dissolved	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 17:39	SPP	TAL SEA
Total Recoverable	Prep	3005A			259881	10/26/17 09:14	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 15:58	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 12:40	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 12:40	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-04

Date Collected: 10/23/17 15:48
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 11:01	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 18:44	P1P	TAL SEA
Dissolved	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 18:02	SPP	TAL SEA
Total Recoverable	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 16:22	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 13:15	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 13:15	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-03

Date Collected: 10/23/17 15:58
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 11:27	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 19:10	P1P	TAL SEA
Dissolved	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 18:47	SPP	TAL SEA
Total Recoverable	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 16:50	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 13:26	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 13:26	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: 1017-10

Date Collected: 10/23/17 17:27
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 11:54	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 19:37	P1P	TAL SEA
Dissolved	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 19:00	SPP	TAL SEA
Total Recoverable	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 16:53	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 13:38	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 13:38	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Client Sample ID: 1017-11

Date Collected: 10/23/17 17:30
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 12:20	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 20:03	P1P	TAL SEA
Dissolved	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	259991	10/26/17 19:03	SPP	TAL SEA
Total Recoverable	Prep	3005A			259887	10/26/17 09:43	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	259990	10/26/17 16:56	FCW	TAL SEA
Total/NA	Analysis	300.0		1	259882	10/25/17 13:50	MMM	TAL SEA
Total/NA	Analysis	300.0		1	259885	10/25/17 13:50	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260699	11/03/17 15:00	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260717	11/04/17 16:54	EMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	259822	10/25/17 15:04	MP	TAL SEA
Total/NA	Prep	SM 5220			260076	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260077	10/27/17 11:00	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260208	10/27/17 17:35	J1Y	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 10/23/17 00:01
Date Received: 10/24/17 14:45

Lab Sample ID: 580-72358-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260113	10/28/17 04:23	D1R	TAL SEA
Total/NA	Analysis	8260C	RA	1	260389	10/31/17 13:25	P1P	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility Groundwa

TestAmerica Job ID: 580-72358-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-72358-1	1017-20	Water	10/23/17 10:34	10/24/17 14:45
580-72358-2	1017-32	Water	10/23/17 10:45	10/24/17 14:45
580-72358-3	1017-21	Water	10/23/17 10:31	10/24/17 14:45
580-72358-4	1017-16	Water	10/23/17 11:55	10/24/17 14:45
580-72358-5	1017-15	Water	10/23/17 12:04	10/24/17 14:45
580-72358-6	1017-22	Water	10/23/17 13:16	10/24/17 14:45
580-72358-7	1017-23	Water	10/23/17 13:07	10/24/17 14:45
580-72358-8	1017-06	Water	10/23/17 14:27	10/24/17 14:45
580-72358-9	1017-07	Water	10/23/17 14:33	10/24/17 14:45
580-72358-10	1017-04	Water	10/23/17 15:48	10/24/17 14:45
580-72358-11	1017-03	Water	10/23/17 15:58	10/24/17 14:45
580-72358-12	1017-10	Water	10/23/17 17:27	10/24/17 14:45
580-72358-13	1017-11	Water	10/23/17 17:30	10/24/17 14:45
580-72358-14	Trip Blank	Water	10/23/17 00:01	10/24/17 14:45

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

72358

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam G. + Alex D.	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-26267-8656.1
Client Contact: Mr. Sam Graber	Phone: 612 940 2890	E-Mail: cathy.gamble@testamericainc.com		Page: Page 1 of 7
Company: SCS Engineers				Job #: 04207033.10
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877				
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0, 28D	6020A_LL - Total Metals	6010C - Diss Metals	350.1, 353.2, 5220D	SM5310_TOC_B - TOC	2540C - TDS	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X	N	D	D	S	S	N	A	N	X	
-1	1017 - 20	10/23/17	1034	6	Water	Y	N	X	X	X	X	X	X	X		9	
	1017 - 32		1045		Water												
-3	1017 - 21		1031		Water												
	1017 - 16		1155		Water												
-5	1017 - 15		1204		Water												
	1017 - 22		1316		Water												
-7	1017 - 23		1307		Water												
	1017 - 06		1427		Water												
-9	1017 - 07		1433		Water												
	1017 - 04		1548		Water												
-11	1017 - 03		1558		Water												

580-72358 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/24/17 900	SCS		10/24/17 1445	TA-SEA
Relinqui					

Therm. ID A2 Cor 6.0 Unc 6.7 Cooler Dsc Lg Blue @Lab — Wet/Packs Packing Bubble Custody Seal: Yes ___ No X

Therm. ID A2 Cor 6.1 Unc 6.8 Cooler Dsc Lg Blue @Lab — Wet/Packs Packing Bubble Custody Seal: Yes ___ No X

Therm. ID A2 Cor 4.7 Unc 5.4 Cooler Dsc Lg Red @Lab — Wet/Packs Packing Bubble Custody Seal: Yes ___ No X

Therm. ID A2 Cor 5.8 Unc 6.5 Cooler Dsc Lg Blue @Lab — Wet/Packs Packing Bubble Custody Seal: Yes ___ No X

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

72358

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam G. + A.O.	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-26267-8656.7
Client Contact: Mr. Sam Graber	Phone: 612 940 2980	E-Mail: cathy.gamble@testamericainc.com		Page: Page 7 of 7
Company: SCS Engineers				Job #: 04207033.10
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877				
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D	6020A_LL - Total Metals	6010C - Diss Metals	350.1, 353.2, 5220D	SM5310_TOC_B - TOC	2540C - TDS	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	N	A	N		
1017-10	10/23/17	1727	G	Water	Y	N	X	X	X	X	X	X	X		9	
-13 1017-11	↓	1730	G	Water	Y	N	X	X	X	X	X	X	X		9	
Trip blank		-	-	Water	N	N							X		9	
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	10/24/17 900	SCS		10/24/17 1445	TA-SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-72358-1

Login Number: 72358
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-72413-1
Client Project/Site: Coupeville Solid Waste Facility GW

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
11/9/2017 1:23:24 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Job ID: 580-72413-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 10/26/2017 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.0º C, 3.8º C, 4.8º C, 5.0º C and 5.9º C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 580-260221 recovered outside control limits for the following analytes: Vinyl Acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-260221 recovered above the upper control limit for vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 1017-02 (580-72413-1), 1017-100 (580-72413-2), 1017-97 (580-72413-3), 1017-99 (580-72413-4), 1017-14 (580-72413-5), 1017-24 (580-72413-6), 1017-01 (580-72413-7), 1017-26 (580-72413-8), 1017-30 (580-72413-9), 1017-29 (580-72413-10), 1017-08 (580-72413-11), 1017-09 (580-72413-12), 1017-12 (580-72413-13), 1017-95 (580-72413-14), 1017-98 (580-72413-15), 1017-96 (580-72413-16), 1017-28 (580-72413-17), 1017-27 (580-72413-18), Trip Blank (580-72413-19) and (CCVIS 580-260221/3).

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

GC/MS Semi VOA
Method(s) 8151A: The continuing calibration verification (CCV) associated with batch 580-260693 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following samples are impacted: 1017-26 (580-72413-8), (CCVIS 580-260693/3), (LCS 580-260233/2-A), (LCSD 580-260233/3-A) and (MB 580-260233/1-A).

Method(s) 8151A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-260233 and analytical batch 580-260693 recovered outside control limits for 4-Nitrophenol. It should be noted that both LCS and LCSD had passing recovery for the affected target.

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

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

General Chemistry
Method(s) SM 2540C: The method blank for 260025 contained TDS above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-02
Date Collected: 10/24/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 18:49	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 18:49	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 18:49	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 18:49	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 18:49	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 18:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 18:49	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 18:49	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 18:49	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 18:49	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 18:49	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 18:49	1
2-Butanone	ND		15		ug/L			10/29/17 18:49	1
2-Hexanone	ND		2.0		ug/L			10/29/17 18:49	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 18:49	1
Acetone	ND		2.0		ug/L			10/29/17 18:49	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 18:49	1
Benzene	ND		0.20		ug/L			10/29/17 18:49	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 18:49	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 18:49	1
Bromoform	ND		0.50		ug/L			10/29/17 18:49	1
Bromomethane	ND		1.0		ug/L			10/29/17 18:49	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 18:49	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 18:49	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 18:49	1
Chloroethane	ND		0.50		ug/L			10/29/17 18:49	1
Chloroform	ND		0.20		ug/L			10/29/17 18:49	1
Chloromethane	ND		0.30		ug/L			10/29/17 18:49	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 18:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 18:49	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 18:49	1
Dibromomethane	ND		0.20		ug/L			10/29/17 18:49	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 18:49	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 18:49	1
Methyl iodide	ND		0.50		ug/L			10/29/17 18:49	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 18:49	1
o-Xylene	ND		0.50		ug/L			10/29/17 18:49	1
Styrene	ND		0.50		ug/L			10/29/17 18:49	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 18:49	1
Toluene	ND		0.20		ug/L			10/29/17 18:49	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 18:49	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 18:49	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 18:49	1
Trichloroethene	ND		0.20		ug/L			10/29/17 18:49	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 18:49	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 18:49	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 18:49	1

Client Sample ID: 1017-02
Date Collected: 10/24/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*10/29/17 18:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/29/17 18:49*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*10/29/17 18:49*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*10/29/17 18:49*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*10/29/17 18:49*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**68**		1.1		mg/L		10/27/17 11:26	10/27/17 17:45	1
Iron	ND		0.30		mg/L		10/27/17 11:26	10/27/17 17:45	1
Magnesium	**41**		1.1		mg/L		10/27/17 11:26	10/27/17 17:45	1
Manganese	**0.26**		0.020		mg/L		10/27/17 11:26	10/27/17 17:45	1
Potassium	**6.4**		3.3		mg/L		10/27/17 11:26	10/27/17 17:45	1
Sodium	**25**		2.0		mg/L		10/27/17 11:26	10/27/17 17:45	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Arsenic	**0.0061**		0.0010		mg/L		10/27/17 11:26	10/29/17 12:52	1
Barium	**0.026**		0.0012		mg/L		10/27/17 11:26	10/29/17 12:52	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Chromium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Copper	ND		0.0020		mg/L		10/27/17 11:26	10/29/17 12:52	1
Lead	ND		0.00080		mg/L		10/27/17 11:26	10/29/17 12:52	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 12:52	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 12:52	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 12:52	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 12:52	1
Zinc	ND		0.0070		mg/L		10/27/17 11:26	10/29/17 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 13:35	1
Chloride	**34**		0.90		mg/L			10/28/17 13:35	1
Sulfate	**16**		1.2		mg/L			10/28/17 13:35	1
Ammonia	ND	F1	0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND		0.15		mg/L			10/28/17 14:06	1
Total Organic Carbon	**1.5**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**330**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**440**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: 1017-100
Date Collected: 10/24/17 10:27
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 19:15	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 19:15	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 19:15	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 19:15	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 19:15	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 19:15	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 19:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 19:15	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 19:15	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 19:15	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 19:15	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 19:15	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 19:15	1
2-Butanone	ND		15		ug/L			10/29/17 19:15	1
2-Hexanone	ND		2.0		ug/L			10/29/17 19:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 19:15	1
Acetone	**2.6**		2.0		ug/L			10/29/17 19:15	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 19:15	1
Benzene	ND		0.20		ug/L			10/29/17 19:15	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 19:15	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 19:15	1
Bromoform	ND		0.50		ug/L			10/29/17 19:15	1
Bromomethane	ND		1.0		ug/L			10/29/17 19:15	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 19:15	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 19:15	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 19:15	1
Chloroethane	ND		0.50		ug/L			10/29/17 19:15	1
Chloroform	ND		0.20		ug/L			10/29/17 19:15	1
Chloromethane	ND		0.30		ug/L			10/29/17 19:15	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 19:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 19:15	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 19:15	1
Dibromomethane	ND		0.20		ug/L			10/29/17 19:15	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 19:15	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 19:15	1
Methyl iodide	ND		0.50		ug/L			10/29/17 19:15	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 19:15	1
o-Xylene	ND		0.50		ug/L			10/29/17 19:15	1
Styrene	ND		0.50		ug/L			10/29/17 19:15	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 19:15	1
Toluene	ND		0.20		ug/L			10/29/17 19:15	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 19:15	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 19:15	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 19:15	1
Trichloroethene	ND		0.20		ug/L			10/29/17 19:15	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 19:15	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 19:15	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 19:15	1

Client Sample ID: 1017-100
Date Collected: 10/24/17 10:27
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		46 - 150		10/29/17 19:15	1
4-Bromofluorobenzene (Surr)	98		81 - 120		10/29/17 19:15	1
Dibromofluoromethane (Surr)	100		42 - 132		10/29/17 19:15	1
Toluene-d8 (Surr)	106		75 - 125		10/29/17 19:15	1
Trifluorotoluene (Surr)	111		74 - 118		10/29/17 19:15	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-97
Date Collected: 10/24/17 11:12
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 19:42	1
1,1,1-Trichloroethane	**0.82**		0.20		ug/L			10/29/17 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 19:42	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 19:42	1
1,1-Dichloroethane	**2.7**		0.20		ug/L			10/29/17 19:42	1
1,1-Dichloroethene	**2.5**		0.10		ug/L			10/29/17 19:42	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 19:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 19:42	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 19:42	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 19:42	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 19:42	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 19:42	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 19:42	1
2-Butanone	ND		15		ug/L			10/29/17 19:42	1
2-Hexanone	ND		2.0		ug/L			10/29/17 19:42	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 19:42	1
Acetone	ND		2.0		ug/L			10/29/17 19:42	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 19:42	1
Benzene	ND		0.20		ug/L			10/29/17 19:42	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 19:42	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 19:42	1
Bromoform	ND		0.50		ug/L			10/29/17 19:42	1
Bromomethane	ND		1.0		ug/L			10/29/17 19:42	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 19:42	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 19:42	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 19:42	1
Chloroethane	ND		0.50		ug/L			10/29/17 19:42	1
Chloroform	ND		0.20		ug/L			10/29/17 19:42	1
Chloromethane	ND		0.30		ug/L			10/29/17 19:42	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 19:42	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 19:42	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 19:42	1
Dibromomethane	ND		0.20		ug/L			10/29/17 19:42	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 19:42	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 19:42	1
Methyl iodide	ND		0.50		ug/L			10/29/17 19:42	1
Methylene Chloride	**0.71**		0.50		ug/L			10/29/17 19:42	1
o-Xylene	ND		0.50		ug/L			10/29/17 19:42	1
Styrene	ND		0.50		ug/L			10/29/17 19:42	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 19:42	1
Toluene	ND		0.20		ug/L			10/29/17 19:42	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 19:42	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 19:42	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 19:42	1
Trichloroethene	ND		0.20		ug/L			10/29/17 19:42	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 19:42	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 19:42	1
Vinyl chloride	**5.0**		0.020		ug/L			10/29/17 19:42	1

Client Sample ID: 1017-97
Date Collected: 10/24/17 11:12
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		46 - 150		10/29/17 19:42	1
4-Bromofluorobenzene (Surr)	98		81 - 120		10/29/17 19:42	1
Dibromofluoromethane (Surr)	101		42 - 132		10/29/17 19:42	1
Toluene-d8 (Surr)	107		75 - 125		10/29/17 19:42	1
Trifluorotoluene (Surr)	112		74 - 118		10/29/17 19:42	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-99
Date Collected: 10/24/17 12:14
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 20:08	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 20:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 20:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 20:08	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 20:08	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 20:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 20:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 20:08	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 20:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 20:08	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 20:08	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 20:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 20:08	1
2-Butanone	ND		15		ug/L			10/29/17 20:08	1
2-Hexanone	ND		2.0		ug/L			10/29/17 20:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 20:08	1
Acetone	ND		2.0		ug/L			10/29/17 20:08	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 20:08	1
Benzene	ND		0.20		ug/L			10/29/17 20:08	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 20:08	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 20:08	1
Bromoform	ND		0.50		ug/L			10/29/17 20:08	1
Bromomethane	ND		1.0		ug/L			10/29/17 20:08	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 20:08	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 20:08	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 20:08	1
Chloroethane	ND		0.50		ug/L			10/29/17 20:08	1
Chloroform	ND		0.20		ug/L			10/29/17 20:08	1
Chloromethane	ND		0.30		ug/L			10/29/17 20:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 20:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 20:08	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 20:08	1
Dibromomethane	ND		0.20		ug/L			10/29/17 20:08	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 20:08	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 20:08	1
Methyl iodide	ND		0.50		ug/L			10/29/17 20:08	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 20:08	1
o-Xylene	ND		0.50		ug/L			10/29/17 20:08	1
Styrene	ND		0.50		ug/L			10/29/17 20:08	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 20:08	1
Toluene	ND		0.20		ug/L			10/29/17 20:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 20:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 20:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 20:08	1
Trichloroethene	ND		0.20		ug/L			10/29/17 20:08	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 20:08	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 20:08	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 20:08	1

Client Sample ID: 1017-99
Date Collected: 10/24/17 12:14
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		46 - 150		10/29/17 20:08	1
4-Bromofluorobenzene (Surr)	98		81 - 120		10/29/17 20:08	1
Dibromofluoromethane (Surr)	102		42 - 132		10/29/17 20:08	1
Toluene-d8 (Surr)	104		75 - 125		10/29/17 20:08	1
Trifluorotoluene (Surr)	113		74 - 118		10/29/17 20:08	1

Client Sample ID: 1017-14
Date Collected: 10/24/17 13:05
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 20:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 20:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 20:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 20:34	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 20:34	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 20:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 20:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 20:34	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 20:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 20:34	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 20:34	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 20:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 20:34	1
2-Butanone	ND		15		ug/L			10/29/17 20:34	1
2-Hexanone	ND		2.0		ug/L			10/29/17 20:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 20:34	1
Acetone	ND		2.0		ug/L			10/29/17 20:34	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 20:34	1
Benzene	ND		0.20		ug/L			10/29/17 20:34	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 20:34	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 20:34	1
Bromoform	ND		0.50		ug/L			10/29/17 20:34	1
Bromomethane	ND		1.0		ug/L			10/29/17 20:34	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 20:34	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 20:34	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 20:34	1
Chloroethane	ND		0.50		ug/L			10/29/17 20:34	1
Chloroform	ND		0.20		ug/L			10/29/17 20:34	1
Chloromethane	ND		0.30		ug/L			10/29/17 20:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 20:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 20:34	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 20:34	1
Dibromomethane	ND		0.20		ug/L			10/29/17 20:34	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 20:34	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 20:34	1
Methyl iodide	ND		0.50		ug/L			10/29/17 20:34	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 20:34	1
o-Xylene	ND		0.50		ug/L			10/29/17 20:34	1
Styrene	ND		0.50		ug/L			10/29/17 20:34	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 20:34	1
Toluene	ND		0.20		ug/L			10/29/17 20:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 20:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 20:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 20:34	1
Trichloroethene	ND		0.20		ug/L			10/29/17 20:34	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 20:34	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 20:34	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 20:34	1

Client Sample ID: 1017-14
Date Collected: 10/24/17 13:05
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*10/29/17 20:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/29/17 20:34*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*10/29/17 20:34*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/29/17 20:34*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*10/29/17 20:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**58**		1.1		mg/L		10/27/17 11:26	10/27/17 18:17	1
Iron	ND		0.30		mg/L		10/27/17 11:26	10/27/17 18:17	1
Magnesium	**72**		1.1		mg/L		10/27/17 11:26	10/27/17 18:17	1
Manganese	**0.16**		0.020		mg/L		10/27/17 11:26	10/27/17 18:17	1
Potassium	**10**		3.3		mg/L		10/27/17 11:26	10/27/17 18:17	1
Sodium	**45**		2.0		mg/L		10/27/17 11:26	10/27/17 18:17	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Arsenic	**0.0075**		0.0010		mg/L		10/27/17 11:26	10/29/17 12:49	1
Barium	**0.056**		0.0012		mg/L		10/27/17 11:26	10/29/17 12:49	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Chromium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Copper	ND		0.0020		mg/L		10/27/17 11:26	10/29/17 12:49	1
Lead	ND		0.00080		mg/L		10/27/17 11:26	10/29/17 12:49	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 12:49	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 12:49	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 12:49	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 12:49	1
Zinc	ND		0.0070		mg/L		10/27/17 11:26	10/29/17 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 14:11	1
Chloride	**67**		0.90		mg/L			10/28/17 14:11	1
Sulfate	**36**		1.2		mg/L			10/28/17 14:11	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND	F1	0.15		mg/L			10/28/17 13:34	1
Total Organic Carbon	**2.5**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**580**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: 1017-24
Date Collected: 10/24/17 13:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 21:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 21:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 21:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 21:01	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 21:01	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 21:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 21:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 21:01	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 21:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 21:01	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 21:01	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 21:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 21:01	1
2-Butanone	ND		15		ug/L			10/29/17 21:01	1
2-Hexanone	ND		2.0		ug/L			10/29/17 21:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 21:01	1
Acetone	ND		2.0		ug/L			10/29/17 21:01	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 21:01	1
Benzene	ND		0.20		ug/L			10/29/17 21:01	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 21:01	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 21:01	1
Bromoform	ND		0.50		ug/L			10/29/17 21:01	1
Bromomethane	ND		1.0		ug/L			10/29/17 21:01	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 21:01	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 21:01	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 21:01	1
Chloroethane	ND		0.50		ug/L			10/29/17 21:01	1
Chloroform	ND		0.20		ug/L			10/29/17 21:01	1
Chloromethane	ND		0.30		ug/L			10/29/17 21:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 21:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 21:01	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 21:01	1
Dibromomethane	ND		0.20		ug/L			10/29/17 21:01	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 21:01	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 21:01	1
Methyl iodide	ND		0.50		ug/L			10/29/17 21:01	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 21:01	1
o-Xylene	ND		0.50		ug/L			10/29/17 21:01	1
Styrene	ND		0.50		ug/L			10/29/17 21:01	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 21:01	1
Toluene	ND		0.20		ug/L			10/29/17 21:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 21:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 21:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 21:01	1
Trichloroethene	ND		0.20		ug/L			10/29/17 21:01	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 21:01	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 21:01	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 21:01	1

Client Sample ID: 1017-24
Date Collected: 10/24/17 13:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/29/17 21:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*10/29/17 21:01*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/29/17 21:01*	*1*
Toluene-d8 (Surr)	*108*		*75 - 125*		*10/29/17 21:01*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*10/29/17 21:01*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**38**		1.1		mg/L		10/27/17 11:26	10/27/17 18:21	1
Iron	**0.76**		0.30		mg/L		10/27/17 11:26	10/27/17 18:21	1
Magnesium	**58**		1.1		mg/L		10/27/17 11:26	10/27/17 18:21	1
Manganese	**0.092**		0.020		mg/L		10/27/17 11:26	10/27/17 18:21	1
Potassium	**11**		3.3		mg/L		10/27/17 11:26	10/27/17 18:21	1
Sodium	**31**		2.0		mg/L		10/27/17 11:26	10/27/17 18:21	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Arsenic	**0.0054**		0.0010		mg/L		10/27/17 11:26	10/29/17 13:22	1
Barium	**0.031**		0.0012		mg/L		10/27/17 11:26	10/29/17 13:22	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Chromium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Copper	**0.0024**		0.0020		mg/L		10/27/17 11:26	10/29/17 13:22	1
Lead	**0.0016**		0.00080		mg/L		10/27/17 11:26	10/29/17 13:22	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 13:22	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 13:22	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 13:22	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 13:22	1
Zinc	**0.20**		0.0070		mg/L		10/27/17 11:26	10/29/17 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 14:22	1
Chloride	**44**		0.90		mg/L			10/28/17 14:22	1
Sulfate	**17**		1.2		mg/L			10/28/17 14:22	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**0.33**		0.15		mg/L			10/28/17 13:39	1
Total Organic Carbon	**2.1**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			10/28/17 15:44	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			10/28/17 15:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:44	1
Total Dissolved Solids	**440**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-01
Date Collected: 10/24/17 14:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 21:28	1
1,1,1-Trichloroethane	**0.25**		0.20		ug/L			10/29/17 21:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 21:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 21:28	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 21:28	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 21:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 21:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 21:28	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 21:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 21:28	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 21:28	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 21:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 21:28	1
2-Butanone	ND		15		ug/L			10/29/17 21:28	1
2-Hexanone	ND		2.0		ug/L			10/29/17 21:28	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 21:28	1
Acetone	ND		2.0		ug/L			10/29/17 21:28	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 21:28	1
Benzene	ND		0.20		ug/L			10/29/17 21:28	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 21:28	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 21:28	1
Bromoform	ND		0.50		ug/L			10/29/17 21:28	1
Bromomethane	ND		1.0		ug/L			10/29/17 21:28	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 21:28	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 21:28	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 21:28	1
Chloroethane	ND		0.50		ug/L			10/29/17 21:28	1
Chloroform	ND		0.20		ug/L			10/29/17 21:28	1
Chloromethane	ND		0.30		ug/L			10/29/17 21:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 21:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 21:28	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 21:28	1
Dibromomethane	ND		0.20		ug/L			10/29/17 21:28	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 21:28	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 21:28	1
Methyl iodide	ND		0.50		ug/L			10/29/17 21:28	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 21:28	1
o-Xylene	ND		0.50		ug/L			10/29/17 21:28	1
Styrene	ND		0.50		ug/L			10/29/17 21:28	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 21:28	1
Toluene	ND		0.20		ug/L			10/29/17 21:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 21:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 21:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 21:28	1
Trichloroethene	ND		0.20		ug/L			10/29/17 21:28	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 21:28	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 21:28	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 21:28	1

Client Sample ID: 1017-01
Date Collected: 10/24/17 14:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/29/17 21:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/29/17 21:28*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/29/17 21:28*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/29/17 21:28*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*10/29/17 21:28*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**63**		1.1		mg/L		10/27/17 11:26	10/27/17 18:24	1
Iron	**0.46**		0.30		mg/L		10/27/17 11:26	10/27/17 18:24	1
Magnesium	**43**		1.1		mg/L		10/27/17 11:26	10/27/17 18:24	1
Manganese	**0.15**		0.020		mg/L		10/27/17 11:26	10/27/17 18:24	1
Potassium	**7.0**		3.3		mg/L		10/27/17 11:26	10/27/17 18:24	1
Sodium	**26**		2.0		mg/L		10/27/17 11:26	10/27/17 18:24	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Arsenic	**0.0056**		0.0010		mg/L		10/27/17 11:26	10/29/17 13:25	1
Barium	**0.022**		0.0012		mg/L		10/27/17 11:26	10/29/17 13:25	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Chromium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Copper	ND		0.0020		mg/L		10/27/17 11:26	10/29/17 13:25	1
Lead	ND		0.00080		mg/L		10/27/17 11:26	10/29/17 13:25	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 13:25	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 13:25	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 13:25	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 13:25	1
Zinc	**0.14**		0.0070		mg/L		10/27/17 11:26	10/29/17 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 14:34	1
Chloride	**22**		0.90		mg/L			10/28/17 14:34	1
Sulfate	**21**		1.2		mg/L			10/28/17 14:34	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND		0.15		mg/L			10/28/17 13:40	1
Total Organic Carbon	**1.4**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		5.0		mg/L			10/28/17 15:45	1
Bicarbonate Alkalinity as CaCO3	**310**		5.0		mg/L			10/28/17 15:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:45	1
Total Dissolved Solids	**430**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: 1017-26
Date Collected: 10/24/17 15:28
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 21:54	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 21:54	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 21:54	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 21:54	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 21:54	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 21:54	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 21:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 21:54	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 21:54	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 21:54	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 21:54	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 21:54	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 21:54	1
2-Butanone	ND		15		ug/L			10/29/17 21:54	1
2-Hexanone	ND		2.0		ug/L			10/29/17 21:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 21:54	1
Acetone	ND		2.0		ug/L			10/29/17 21:54	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 21:54	1
Benzene	ND		0.20		ug/L			10/29/17 21:54	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 21:54	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 21:54	1
Bromoform	ND		0.50		ug/L			10/29/17 21:54	1
Bromomethane	ND		1.0		ug/L			10/29/17 21:54	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 21:54	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 21:54	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 21:54	1
Chloroethane	ND		0.50		ug/L			10/29/17 21:54	1
Chloroform	ND		0.20		ug/L			10/29/17 21:54	1
Chloromethane	ND		0.30		ug/L			10/29/17 21:54	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 21:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 21:54	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 21:54	1
Dibromomethane	ND		0.20		ug/L			10/29/17 21:54	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 21:54	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 21:54	1
Methyl iodide	ND		0.50		ug/L			10/29/17 21:54	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 21:54	1
o-Xylene	ND		0.50		ug/L			10/29/17 21:54	1
Styrene	ND		0.50		ug/L			10/29/17 21:54	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 21:54	1
Toluene	ND		0.20		ug/L			10/29/17 21:54	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 21:54	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 21:54	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 21:54	1
Trichloroethene	ND		0.20		ug/L			10/29/17 21:54	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 21:54	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 21:54	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 21:54	1

Client Sample ID: 1017-26

Date Collected: 10/24/17 15:28
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/29/17 21:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*10/29/17 21:54*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/29/17 21:54*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*10/29/17 21:54*	*1*
Trifluorotoluene (Surr)	*112*		*74 - 118*		*10/29/17 21:54*	*1*

Method: 8151A - Herbicides (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
2,4-D	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
2,4-DB	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
4-Nitrophenol	ND	*	0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
Dalapon	ND		0.41		ug/L		10/30/17 11:21	11/03/17 21:22	1
Dicamba	**0.98**		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
Dichlorprop	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
Dinoseb	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
MCPA	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
Mecoprop	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
Pentachlorophenol	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1
Silvex (2,4,5-TP)	ND		0.26		ug/L		10/30/17 11:21	11/03/17 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*93*		*51 - 150*	*10/30/17 11:21*	*11/03/17 21:22*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		10/27/17 11:26	10/27/17 18:27	1
Iron	ND		0.30		mg/L		10/27/17 11:26	10/27/17 18:27	1
Magnesium	**48**		1.1		mg/L		10/27/17 11:26	10/27/17 18:27	1
Manganese	ND		0.020		mg/L		10/27/17 11:26	10/27/17 18:27	1
Potassium	**6.4**		3.3		mg/L		10/27/17 11:26	10/27/17 18:27	1
Sodium	**28**		2.0		mg/L		10/27/17 11:26	10/27/17 18:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Arsenic	**0.0014**		0.0010		mg/L		10/27/17 11:26	10/29/17 13:28	1
Barium	**0.032**		0.0012		mg/L		10/27/17 11:26	10/29/17 13:28	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Chromium	**0.012**		0.00040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Copper	ND		0.0020		mg/L		10/27/17 11:26	10/29/17 13:28	1
Lead	ND		0.00080		mg/L		10/27/17 11:26	10/29/17 13:28	1
Nickel	**0.0035**		0.0030		mg/L		10/27/17 11:26	10/29/17 13:28	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 13:28	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 13:28	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 13:28	1
Zinc	ND		0.0070		mg/L		10/27/17 11:26	10/29/17 13:28	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-26
Date Collected: 10/24/17 15:28
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 15:09	1
Chloride	**93**		0.90		mg/L			10/28/17 15:09	1
Sulfate	**40**		1.2		mg/L			10/28/17 15:09	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**12**		3.0		mg/L			10/28/17 13:41	20
Total Organic Carbon	**1.6**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		5.0		mg/L			10/28/17 15:45	1
Bicarbonate Alkalinity as CaCO3	**350**		5.0		mg/L			10/28/17 15:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:45	1
Total Dissolved Solids	**690**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-30
Date Collected: 10/24/17 16:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 22:20	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 22:20	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 22:20	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 22:20	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 22:20	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 22:20	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 22:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 22:20	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 22:20	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 22:20	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 22:20	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 22:20	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 22:20	1
2-Butanone	ND		15		ug/L			10/29/17 22:20	1
2-Hexanone	ND		2.0		ug/L			10/29/17 22:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 22:20	1
Acetone	ND		2.0		ug/L			10/29/17 22:20	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 22:20	1
Benzene	ND		0.20		ug/L			10/29/17 22:20	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 22:20	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 22:20	1
Bromoform	ND		0.50		ug/L			10/29/17 22:20	1
Bromomethane	ND		1.0		ug/L			10/29/17 22:20	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 22:20	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 22:20	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 22:20	1
Chloroethane	ND		0.50		ug/L			10/29/17 22:20	1
Chloroform	ND		0.20		ug/L			10/29/17 22:20	1
Chloromethane	ND		0.30		ug/L			10/29/17 22:20	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 22:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 22:20	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 22:20	1
Dibromomethane	ND		0.20		ug/L			10/29/17 22:20	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 22:20	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 22:20	1
Methyl iodide	ND		0.50		ug/L			10/29/17 22:20	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 22:20	1
o-Xylene	ND		0.50		ug/L			10/29/17 22:20	1
Styrene	ND		0.50		ug/L			10/29/17 22:20	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 22:20	1
Toluene	ND		0.20		ug/L			10/29/17 22:20	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 22:20	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 22:20	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 22:20	1
Trichloroethene	ND		0.20		ug/L			10/29/17 22:20	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 22:20	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 22:20	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 22:20	1

Client Sample ID: 1017-30
Date Collected: 10/24/17 16:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/29/17 22:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/29/17 22:20*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/29/17 22:20*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/29/17 22:20*	*1*
Trifluorotoluene (Surr)	*113*		*74 - 118*		*10/29/17 22:20*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**81**		1.1		mg/L		10/27/17 11:26	10/27/17 18:31	1
Iron	ND		0.30		mg/L		10/27/17 11:26	10/27/17 18:31	1
Magnesium	**46**		1.1		mg/L		10/27/17 11:26	10/27/17 18:31	1
Manganese	ND		0.020		mg/L		10/27/17 11:26	10/27/17 18:31	1
Potassium	**5.7**		3.3		mg/L		10/27/17 11:26	10/27/17 18:31	1
Sodium	**32**		2.0		mg/L		10/27/17 11:26	10/27/17 18:31	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Arsenic	**0.0030**		0.0010		mg/L		10/27/17 11:26	10/29/17 13:31	1
Barium	**0.021**		0.0012		mg/L		10/27/17 11:26	10/29/17 13:31	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Chromium	**0.0011**		0.00040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Copper	**0.062**		0.0020		mg/L		10/27/17 11:26	10/29/17 13:31	1
Lead	**0.00090**		0.00080		mg/L		10/27/17 11:26	10/29/17 13:31	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 13:31	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 13:31	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 13:31	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 13:31	1
Zinc	**0.12**		0.0070		mg/L		10/27/17 11:26	10/29/17 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 15:21	1
Chloride	**56**		0.90		mg/L			10/28/17 15:21	1
Sulfate	**44**		1.2		mg/L			10/28/17 15:21	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**1.4**		0.15		mg/L			10/28/17 13:45	1
Total Organic Carbon	**2.0**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**320**		5.0		mg/L			10/28/17 15:45	1
Bicarbonate Alkalinity as CaCO3	**320**		5.0		mg/L			10/28/17 15:45	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:45	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 15:45	1
Total Dissolved Solids	**540**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-29
Date Collected: 10/24/17 17:33
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 22:47	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 22:47	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 22:47	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 22:47	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 22:47	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 22:47	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 22:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 22:47	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 22:47	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 22:47	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 22:47	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 22:47	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 22:47	1
2-Butanone	ND		15		ug/L			10/29/17 22:47	1
2-Hexanone	ND		2.0		ug/L			10/29/17 22:47	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 22:47	1
Acetone	**3.4**		2.0		ug/L			10/29/17 22:47	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 22:47	1
Benzene	ND		0.20		ug/L			10/29/17 22:47	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 22:47	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 22:47	1
Bromoform	ND		0.50		ug/L			10/29/17 22:47	1
Bromomethane	ND		1.0		ug/L			10/29/17 22:47	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 22:47	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 22:47	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 22:47	1
Chloroethane	ND		0.50		ug/L			10/29/17 22:47	1
Chloroform	ND		0.20		ug/L			10/29/17 22:47	1
Chloromethane	ND		0.30		ug/L			10/29/17 22:47	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 22:47	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 22:47	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 22:47	1
Dibromomethane	ND		0.20		ug/L			10/29/17 22:47	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 22:47	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 22:47	1
Methyl iodide	ND		0.50		ug/L			10/29/17 22:47	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 22:47	1
o-Xylene	ND		0.50		ug/L			10/29/17 22:47	1
Styrene	ND		0.50		ug/L			10/29/17 22:47	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 22:47	1
Toluene	ND		0.20		ug/L			10/29/17 22:47	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 22:47	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 22:47	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 22:47	1
Trichloroethene	ND		0.20		ug/L			10/29/17 22:47	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 22:47	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 22:47	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 22:47	1

Client Sample ID: 1017-29
Date Collected: 10/24/17 17:33
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-10
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*10/29/17 22:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/29/17 22:47*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/29/17 22:47*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/29/17 22:47*	*1*
Trifluorotoluene (Surr)	*116*		*74 - 118*		*10/29/17 22:47*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**92**		1.1		mg/L		10/27/17 11:26	10/27/17 18:34	1
Iron	ND		0.30		mg/L		10/27/17 11:26	10/27/17 18:34	1
Magnesium	**50**		1.1		mg/L		10/27/17 11:26	10/27/17 18:34	1
Manganese	ND		0.020		mg/L		10/27/17 11:26	10/27/17 18:34	1
Potassium	**4.6**		3.3		mg/L		10/27/17 11:26	10/27/17 18:34	1
Sodium	**33**		2.0		mg/L		10/27/17 11:26	10/27/17 18:34	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Arsenic	**0.0017**		0.0010		mg/L		10/27/17 11:26	10/29/17 13:34	1
Barium	**0.024**		0.0012		mg/L		10/27/17 11:26	10/29/17 13:34	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Chromium	**0.0018**		0.00040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Copper	ND		0.0020		mg/L		10/27/17 11:26	10/29/17 13:34	1
Lead	ND		0.00080		mg/L		10/27/17 11:26	10/29/17 13:34	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 13:34	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 13:34	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 13:34	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 13:34	1
Zinc	ND		0.0070		mg/L		10/27/17 11:26	10/29/17 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 15:32	1
Chloride	**48**		0.90		mg/L			10/28/17 15:32	1
Sulfate	**57**		1.2		mg/L			10/28/17 15:32	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**3.7**		0.30		mg/L			10/28/17 13:46	2
Total Organic Carbon	**2.2**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			10/28/17 18:44	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			10/28/17 18:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Total Dissolved Solids	**610**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-08
Date Collected: 10/25/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 23:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 23:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 23:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 23:13	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 23:13	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 23:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 23:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 23:13	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 23:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 23:13	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 23:13	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 23:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 23:13	1
2-Butanone	ND		15		ug/L			10/29/17 23:13	1
2-Hexanone	ND		2.0		ug/L			10/29/17 23:13	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 23:13	1
Acetone	ND		2.0		ug/L			10/29/17 23:13	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 23:13	1
Benzene	ND		0.20		ug/L			10/29/17 23:13	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 23:13	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 23:13	1
Bromoform	ND		0.50		ug/L			10/29/17 23:13	1
Bromomethane	ND		1.0		ug/L			10/29/17 23:13	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 23:13	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 23:13	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 23:13	1
Chloroethane	ND		0.50		ug/L			10/29/17 23:13	1
Chloroform	ND		0.20		ug/L			10/29/17 23:13	1
Chloromethane	ND		0.30		ug/L			10/29/17 23:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 23:13	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 23:13	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 23:13	1
Dibromomethane	ND		0.20		ug/L			10/29/17 23:13	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 23:13	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 23:13	1
Methyl iodide	ND		0.50		ug/L			10/29/17 23:13	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 23:13	1
o-Xylene	ND		0.50		ug/L			10/29/17 23:13	1
Styrene	ND		0.50		ug/L			10/29/17 23:13	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 23:13	1
Toluene	ND		0.20		ug/L			10/29/17 23:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 23:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 23:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 23:13	1
Trichloroethene	ND		0.20		ug/L			10/29/17 23:13	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 23:13	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 23:13	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 23:13	1

Client Sample ID: 1017-08
Date Collected: 10/25/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-11
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*46 - 150*		*10/29/17 23:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/29/17 23:13*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*10/29/17 23:13*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*10/29/17 23:13*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/29/17 23:13*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		1.1		mg/L		10/27/17 13:33	10/31/17 11:10	1
Calcium	**130**		1.1		mg/L		10/27/17 13:33	10/31/17 11:38	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:10	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:38	1
Magnesium	**97**		1.1		mg/L		10/27/17 13:33	10/31/17 11:10	1
Magnesium	**97**		1.1		mg/L		10/27/17 13:33	10/31/17 11:38	1
Manganese	**0.23**		0.020		mg/L		10/27/17 13:33	10/31/17 11:10	1
Manganese	**0.23**		0.020		mg/L		10/27/17 13:33	10/31/17 11:38	1
Potassium	**11**		3.3		mg/L		10/27/17 13:33	10/31/17 11:10	1
Potassium	**11**		3.3		mg/L		10/27/17 13:33	10/31/17 11:38	1
Sodium	**49**		2.0		mg/L		10/27/17 13:33	10/31/17 11:10	1
Sodium	**49**		2.0		mg/L		10/27/17 13:33	10/31/17 11:38	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Arsenic	**0.0034**		0.0010		mg/L		10/27/17 13:33	10/29/17 14:14	1
Barium	**0.083**		0.0012		mg/L		10/27/17 13:33	10/29/17 14:14	1
Beryllium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Cadmium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Chromium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Cobalt	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Copper	ND		0.0020		mg/L		10/27/17 13:33	10/29/17 14:14	1
Lead	ND		0.00080		mg/L		10/27/17 13:33	10/29/17 14:14	1
Nickel	**0.0086**		0.0030		mg/L		10/27/17 13:33	10/29/17 14:14	1
Selenium	ND		0.0080		mg/L		10/27/17 13:33	10/29/17 14:14	1
Silver	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Thallium	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 14:14	1
Vanadium	ND		0.0040		mg/L		10/27/17 13:33	10/29/17 14:14	1
Zinc	ND		0.0070		mg/L		10/27/17 13:33	10/29/17 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 15:44	1
Chloride	**110**		4.5		mg/L			10/28/17 18:16	5
Sulfate	**66**		1.2		mg/L			10/28/17 15:44	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND		0.15		mg/L			10/28/17 13:47	1
Total Organic Carbon	**2.8**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**570**		5.0		mg/L			10/28/17 18:44	1
Bicarbonate Alkalinity as CaCO3	**570**		5.0		mg/L			10/28/17 18:44	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-08
Date Collected: 10/25/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Total Dissolved Solids	**870**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	**11**		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-09
Date Collected: 10/25/17 11:23
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 23:40	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 23:40	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 23:40	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 23:40	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 23:40	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 23:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 23:40	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 23:40	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 23:40	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 23:40	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 23:40	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 23:40	1
2-Butanone	ND		15		ug/L			10/29/17 23:40	1
2-Hexanone	ND		2.0		ug/L			10/29/17 23:40	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 23:40	1
Acetone	ND		2.0		ug/L			10/29/17 23:40	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 23:40	1
Benzene	ND		0.20		ug/L			10/29/17 23:40	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 23:40	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 23:40	1
Bromoform	ND		0.50		ug/L			10/29/17 23:40	1
Bromomethane	ND		1.0		ug/L			10/29/17 23:40	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 23:40	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 23:40	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 23:40	1
Chloroethane	ND		0.50		ug/L			10/29/17 23:40	1
Chloroform	ND		0.20		ug/L			10/29/17 23:40	1
Chloromethane	ND		0.30		ug/L			10/29/17 23:40	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 23:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 23:40	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 23:40	1
Dibromomethane	ND		0.20		ug/L			10/29/17 23:40	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 23:40	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 23:40	1
Methyl iodide	ND		0.50		ug/L			10/29/17 23:40	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 23:40	1
o-Xylene	ND		0.50		ug/L			10/29/17 23:40	1
Styrene	ND		0.50		ug/L			10/29/17 23:40	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 23:40	1
Toluene	ND		0.20		ug/L			10/29/17 23:40	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 23:40	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 23:40	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 23:40	1
Trichloroethene	ND		0.20		ug/L			10/29/17 23:40	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 23:40	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 23:40	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 23:40	1

Client Sample ID: 1017-09
Date Collected: 10/25/17 11:23
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*46 - 150*		*10/29/17 23:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*81 - 120*		*10/29/17 23:40*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*10/29/17 23:40*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*10/29/17 23:40*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/29/17 23:40*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**67**		1.1		mg/L		10/27/17 13:33	10/31/17 11:42	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:42	1
Magnesium	**41**		1.1		mg/L		10/27/17 13:33	10/31/17 11:42	1
Manganese	ND		0.020		mg/L		10/27/17 13:33	10/31/17 11:42	1
Potassium	**6.8**		3.3		mg/L		10/27/17 13:33	10/31/17 11:42	1
Sodium	**27**		2.0		mg/L		10/27/17 13:33	10/31/17 11:42	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Arsenic	**0.0031**		0.0010		mg/L		10/27/17 13:33	10/29/17 13:37	1
Barium	**0.026**		0.0012		mg/L		10/27/17 13:33	10/29/17 13:37	1
Beryllium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Cadmium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Chromium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Cobalt	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Copper	ND		0.0020		mg/L		10/27/17 13:33	10/29/17 13:37	1
Lead	ND		0.00080		mg/L		10/27/17 13:33	10/29/17 13:37	1
Nickel	ND		0.0030		mg/L		10/27/17 13:33	10/29/17 13:37	1
Selenium	ND		0.0080		mg/L		10/27/17 13:33	10/29/17 13:37	1
Silver	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Thallium	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 13:37	1
Vanadium	ND		0.0040		mg/L		10/27/17 13:33	10/29/17 13:37	1
Zinc	ND		0.0070		mg/L		10/27/17 13:33	10/29/17 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 15:56	1
Chloride	**46**		0.90		mg/L			10/28/17 15:56	1
Sulfate	**39**		1.2		mg/L			10/28/17 15:56	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND		0.15		mg/L			10/28/17 13:48	1
Total Organic Carbon	**1.5**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**280**		5.0		mg/L			10/28/17 18:44	1
Bicarbonate Alkalinity as CaCO3	**280**		5.0		mg/L			10/28/17 18:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Total Dissolved Solids	**450**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	**11**		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-12
Date Collected: 10/25/17 12:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 00:06	1
1,1,1-Trichloroethane	**0.45**		0.20		ug/L			10/30/17 00:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 00:06	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/30/17 00:06	1
1,1-Dichloroethane	ND		0.20		ug/L			10/30/17 00:06	1
1,1-Dichloroethene	ND		0.10		ug/L			10/30/17 00:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/30/17 00:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/30/17 00:06	1
1,2-Dibromoethane	ND		0.10		ug/L			10/30/17 00:06	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/30/17 00:06	1
1,2-Dichloroethane	ND		0.20		ug/L			10/30/17 00:06	1
1,2-Dichloropropane	ND		0.20		ug/L			10/30/17 00:06	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/30/17 00:06	1
2-Butanone	ND		15		ug/L			10/30/17 00:06	1
2-Hexanone	ND		2.0		ug/L			10/30/17 00:06	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/30/17 00:06	1
Acetone	ND		2.0		ug/L			10/30/17 00:06	1
Acrylonitrile	ND		5.0		ug/L			10/30/17 00:06	1
Benzene	ND		0.20		ug/L			10/30/17 00:06	1
Bromochloromethane	ND		0.20		ug/L			10/30/17 00:06	1
Bromodichloromethane	ND		0.20		ug/L			10/30/17 00:06	1
Bromoform	ND		0.50		ug/L			10/30/17 00:06	1
Bromomethane	ND		1.0		ug/L			10/30/17 00:06	1
Carbon disulfide	ND		0.20		ug/L			10/30/17 00:06	1
Carbon tetrachloride	ND		0.20		ug/L			10/30/17 00:06	1
Chlorobenzene	ND		0.20		ug/L			10/30/17 00:06	1
Chloroethane	ND		0.50		ug/L			10/30/17 00:06	1
Chloroform	ND		0.20		ug/L			10/30/17 00:06	1
Chloromethane	ND		0.30		ug/L			10/30/17 00:06	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 00:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/17 00:06	1
Dibromochloromethane	ND		0.20		ug/L			10/30/17 00:06	1
Dibromomethane	ND		0.20		ug/L			10/30/17 00:06	1
Ethylbenzene	ND		0.20		ug/L			10/30/17 00:06	1
m,p-Xylene	ND		0.50		ug/L			10/30/17 00:06	1
Methyl iodide	ND		0.50		ug/L			10/30/17 00:06	1
Methylene Chloride	ND		0.50		ug/L			10/30/17 00:06	1
o-Xylene	ND		0.50		ug/L			10/30/17 00:06	1
Styrene	ND		0.50		ug/L			10/30/17 00:06	1
Tetrachloroethene	ND		0.50		ug/L			10/30/17 00:06	1
Toluene	ND		0.20		ug/L			10/30/17 00:06	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 00:06	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/30/17 00:06	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/30/17 00:06	1
Trichloroethene	ND		0.20		ug/L			10/30/17 00:06	1
Trichlorofluoromethane	ND		0.50		ug/L			10/30/17 00:06	1
Vinyl acetate	ND	*	1.0		ug/L			10/30/17 00:06	1
Vinyl chloride	ND		0.020		ug/L			10/30/17 00:06	1

Client Sample ID: 1017-12
Date Collected: 10/25/17 12:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*46 - 150*		*10/30/17 00:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/30/17 00:06*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/30/17 00:06*	*1*
Toluene-d8 (Surr)	*106*		*75 - 125*		*10/30/17 00:06*	*1*
Trifluorotoluene (Surr)	*116*		*74 - 118*		*10/30/17 00:06*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**140**		1.1		mg/L		10/27/17 13:33	10/31/17 11:45	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:45	1
Magnesium	**82**		1.1		mg/L		10/27/17 13:33	10/31/17 11:45	1
Manganese	**0.021**		0.020		mg/L		10/27/17 13:33	10/31/17 11:45	1
Potassium	**7.3**		3.3		mg/L		10/27/17 13:33	10/31/17 11:45	1
Sodium	**32**		2.0		mg/L		10/27/17 13:33	10/31/17 11:45	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Arsenic	**0.0020**		0.0010		mg/L		10/27/17 13:33	10/29/17 13:40	1
Barium	**0.033**		0.0012		mg/L		10/27/17 13:33	10/29/17 13:40	1
Beryllium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Cadmium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Chromium	**0.0012**		0.00040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Cobalt	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Copper	ND		0.0020		mg/L		10/27/17 13:33	10/29/17 13:40	1
Lead	ND		0.00080		mg/L		10/27/17 13:33	10/29/17 13:40	1
Nickel	**0.0052**		0.0030		mg/L		10/27/17 13:33	10/29/17 13:40	1
Selenium	ND		0.0080		mg/L		10/27/17 13:33	10/29/17 13:40	1
Silver	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Thallium	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 13:40	1
Vanadium	**0.0041**		0.0040		mg/L		10/27/17 13:33	10/29/17 13:40	1
Zinc	ND		0.0070		mg/L		10/27/17 13:33	10/29/17 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.20		mg/L			10/28/17 16:08	1
Chloride	**55**		0.90		mg/L			10/28/17 16:08	1
Sulfate	**100**		6.0		mg/L			10/28/17 18:28	5
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**41**		7.5		mg/L			10/28/17 13:50	50
Total Organic Carbon	**2.1**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**380**		5.0		mg/L			10/28/17 18:44	1
Bicarbonate Alkalinity as CaCO3	**380**		5.0		mg/L			10/28/17 18:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Total Dissolved Solids	**850**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	**12**		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-95
Date Collected: 10/25/17 14:15
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 00:33	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/30/17 00:33	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 00:33	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/30/17 00:33	1
1,1-Dichloroethane	ND		0.20		ug/L			10/30/17 00:33	1
1,1-Dichloroethene	ND		0.10		ug/L			10/30/17 00:33	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/30/17 00:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/30/17 00:33	1
1,2-Dibromoethane	ND		0.10		ug/L			10/30/17 00:33	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/30/17 00:33	1
1,2-Dichloroethane	ND		0.20		ug/L			10/30/17 00:33	1
1,2-Dichloropropane	ND		0.20		ug/L			10/30/17 00:33	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/30/17 00:33	1
2-Butanone	ND		15		ug/L			10/30/17 00:33	1
2-Hexanone	ND		2.0		ug/L			10/30/17 00:33	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/30/17 00:33	1
Acetone	ND		2.0		ug/L			10/30/17 00:33	1
Acrylonitrile	ND		5.0		ug/L			10/30/17 00:33	1
Benzene	ND		0.20		ug/L			10/30/17 00:33	1
Bromochloromethane	ND		0.20		ug/L			10/30/17 00:33	1
Bromodichloromethane	ND		0.20		ug/L			10/30/17 00:33	1
Bromoform	ND		0.50		ug/L			10/30/17 00:33	1
Bromomethane	ND		1.0		ug/L			10/30/17 00:33	1
Carbon disulfide	ND		0.20		ug/L			10/30/17 00:33	1
Carbon tetrachloride	ND		0.20		ug/L			10/30/17 00:33	1
Chlorobenzene	ND		0.20		ug/L			10/30/17 00:33	1
Chloroethane	ND		0.50		ug/L			10/30/17 00:33	1
Chloroform	ND		0.20		ug/L			10/30/17 00:33	1
Chloromethane	ND		0.30		ug/L			10/30/17 00:33	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 00:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/17 00:33	1
Dibromochloromethane	ND		0.20		ug/L			10/30/17 00:33	1
Dibromomethane	ND		0.20		ug/L			10/30/17 00:33	1
Ethylbenzene	ND		0.20		ug/L			10/30/17 00:33	1
m,p-Xylene	ND		0.50		ug/L			10/30/17 00:33	1
Methyl iodide	ND		0.50		ug/L			10/30/17 00:33	1
Methylene Chloride	ND		0.50		ug/L			10/30/17 00:33	1
o-Xylene	ND		0.50		ug/L			10/30/17 00:33	1
Styrene	ND		0.50		ug/L			10/30/17 00:33	1
Tetrachloroethene	ND		0.50		ug/L			10/30/17 00:33	1
Toluene	ND		0.20		ug/L			10/30/17 00:33	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 00:33	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/30/17 00:33	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/30/17 00:33	1
Trichloroethene	ND		0.20		ug/L			10/30/17 00:33	1
Trichlorofluoromethane	ND		0.50		ug/L			10/30/17 00:33	1
Vinyl acetate	ND	*	1.0		ug/L			10/30/17 00:33	1
Vinyl chloride	ND		0.020		ug/L			10/30/17 00:33	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-95
Date Collected: 10/25/17 14:15
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		46 - 150		10/30/17 00:33	1
4-Bromofluorobenzene (Surr)	102		81 - 120		10/30/17 00:33	1
Dibromofluoromethane (Surr)	106		42 - 132		10/30/17 00:33	1
Toluene-d8 (Surr)	104		75 - 125		10/30/17 00:33	1
Trifluorotoluene (Surr)	107		74 - 118		10/30/17 00:33	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-98
Date Collected: 10/25/17 15:05
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 00:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/30/17 00:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 00:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/30/17 00:59	1
1,1-Dichloroethane	ND		0.20		ug/L			10/30/17 00:59	1
1,1-Dichloroethene	ND		0.10		ug/L			10/30/17 00:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/30/17 00:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/30/17 00:59	1
1,2-Dibromoethane	ND		0.10		ug/L			10/30/17 00:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/30/17 00:59	1
1,2-Dichloroethane	ND		0.20		ug/L			10/30/17 00:59	1
1,2-Dichloropropane	ND		0.20		ug/L			10/30/17 00:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/30/17 00:59	1
2-Butanone	ND		15		ug/L			10/30/17 00:59	1
2-Hexanone	ND		2.0		ug/L			10/30/17 00:59	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/30/17 00:59	1
Acetone	ND		2.0		ug/L			10/30/17 00:59	1
Acrylonitrile	ND		5.0		ug/L			10/30/17 00:59	1
Benzene	ND		0.20		ug/L			10/30/17 00:59	1
Bromochloromethane	ND		0.20		ug/L			10/30/17 00:59	1
Bromodichloromethane	ND		0.20		ug/L			10/30/17 00:59	1
Bromoform	ND		0.50		ug/L			10/30/17 00:59	1
Bromomethane	ND		1.0		ug/L			10/30/17 00:59	1
Carbon disulfide	ND		0.20		ug/L			10/30/17 00:59	1
Carbon tetrachloride	ND		0.20		ug/L			10/30/17 00:59	1
Chlorobenzene	ND		0.20		ug/L			10/30/17 00:59	1
Chloroethane	ND		0.50		ug/L			10/30/17 00:59	1
Chloroform	ND		0.20		ug/L			10/30/17 00:59	1
Chloromethane	ND		0.30		ug/L			10/30/17 00:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 00:59	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/17 00:59	1
Dibromochloromethane	ND		0.20		ug/L			10/30/17 00:59	1
Dibromomethane	ND		0.20		ug/L			10/30/17 00:59	1
Ethylbenzene	ND		0.20		ug/L			10/30/17 00:59	1
m,p-Xylene	ND		0.50		ug/L			10/30/17 00:59	1
Methyl iodide	ND		0.50		ug/L			10/30/17 00:59	1
Methylene Chloride	ND		0.50		ug/L			10/30/17 00:59	1
o-Xylene	ND		0.50		ug/L			10/30/17 00:59	1
Styrene	ND		0.50		ug/L			10/30/17 00:59	1
Tetrachloroethene	ND		0.50		ug/L			10/30/17 00:59	1
Toluene	ND		0.20		ug/L			10/30/17 00:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 00:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/30/17 00:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/30/17 00:59	1
Trichloroethene	ND		0.20		ug/L			10/30/17 00:59	1
Trichlorofluoromethane	ND		0.50		ug/L			10/30/17 00:59	1
Vinyl acetate	ND	*	1.0		ug/L			10/30/17 00:59	1
Vinyl chloride	ND		0.020		ug/L			10/30/17 00:59	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-98
Date Collected: 10/25/17 15:05
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-15
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		46 - 150		10/30/17 00:59	1
4-Bromofluorobenzene (Surr)	101		81 - 120		10/30/17 00:59	1
Dibromofluoromethane (Surr)	103		42 - 132		10/30/17 00:59	1
Toluene-d8 (Surr)	107		75 - 125		10/30/17 00:59	1
Trifluorotoluene (Surr)	113		74 - 118		10/30/17 00:59	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-96
Date Collected: 10/25/17 15:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 01:26	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/30/17 01:26	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 01:26	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/30/17 01:26	1
1,1-Dichloroethane	ND		0.20		ug/L			10/30/17 01:26	1
1,1-Dichloroethene	ND		0.10		ug/L			10/30/17 01:26	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/30/17 01:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/30/17 01:26	1
1,2-Dibromoethane	ND		0.10		ug/L			10/30/17 01:26	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/30/17 01:26	1
1,2-Dichloroethane	ND		0.20		ug/L			10/30/17 01:26	1
1,2-Dichloropropane	ND		0.20		ug/L			10/30/17 01:26	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/30/17 01:26	1
2-Butanone	ND		15		ug/L			10/30/17 01:26	1
2-Hexanone	ND		2.0		ug/L			10/30/17 01:26	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/30/17 01:26	1
Acetone	ND		2.0		ug/L			10/30/17 01:26	1
Acrylonitrile	ND		5.0		ug/L			10/30/17 01:26	1
Benzene	ND		0.20		ug/L			10/30/17 01:26	1
Bromochloromethane	ND		0.20		ug/L			10/30/17 01:26	1
Bromodichloromethane	ND		0.20		ug/L			10/30/17 01:26	1
Bromoform	ND		0.50		ug/L			10/30/17 01:26	1
Bromomethane	ND		1.0		ug/L			10/30/17 01:26	1
Carbon disulfide	ND		0.20		ug/L			10/30/17 01:26	1
Carbon tetrachloride	ND		0.20		ug/L			10/30/17 01:26	1
Chlorobenzene	ND		0.20		ug/L			10/30/17 01:26	1
Chloroethane	ND		0.50		ug/L			10/30/17 01:26	1
Chloroform	ND		0.20		ug/L			10/30/17 01:26	1
Chloromethane	ND		0.30		ug/L			10/30/17 01:26	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 01:26	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/17 01:26	1
Dibromochloromethane	ND		0.20		ug/L			10/30/17 01:26	1
Dibromomethane	ND		0.20		ug/L			10/30/17 01:26	1
Ethylbenzene	ND		0.20		ug/L			10/30/17 01:26	1
m,p-Xylene	ND		0.50		ug/L			10/30/17 01:26	1
Methyl iodide	ND		0.50		ug/L			10/30/17 01:26	1
Methylene Chloride	ND		0.50		ug/L			10/30/17 01:26	1
o-Xylene	ND		0.50		ug/L			10/30/17 01:26	1
Styrene	ND		0.50		ug/L			10/30/17 01:26	1
Tetrachloroethene	ND		0.50		ug/L			10/30/17 01:26	1
Toluene	ND		0.20		ug/L			10/30/17 01:26	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 01:26	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/30/17 01:26	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/30/17 01:26	1
Trichloroethene	ND		0.20		ug/L			10/30/17 01:26	1
Trichlorofluoromethane	ND		0.50		ug/L			10/30/17 01:26	1
Vinyl acetate	ND	*	1.0		ug/L			10/30/17 01:26	1
Vinyl chloride	ND		0.020		ug/L			10/30/17 01:26	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-96
Date Collected: 10/25/17 15:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-16
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		46 - 150		10/30/17 01:26	1
4-Bromofluorobenzene (Surr)	99		81 - 120		10/30/17 01:26	1
Dibromofluoromethane (Surr)	102		42 - 132		10/30/17 01:26	1
Toluene-d8 (Surr)	106		75 - 125		10/30/17 01:26	1
Trifluorotoluene (Surr)	112		74 - 118		10/30/17 01:26	1

Client Sample ID: 1017-28
Date Collected: 10/25/17 16:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 01:52	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/30/17 01:52	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 01:52	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/30/17 01:52	1
1,1-Dichloroethane	ND		0.20		ug/L			10/30/17 01:52	1
1,1-Dichloroethene	ND		0.10		ug/L			10/30/17 01:52	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/30/17 01:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/30/17 01:52	1
1,2-Dibromoethane	ND		0.10		ug/L			10/30/17 01:52	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/30/17 01:52	1
1,2-Dichloroethane	ND		0.20		ug/L			10/30/17 01:52	1
1,2-Dichloropropane	ND		0.20		ug/L			10/30/17 01:52	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/30/17 01:52	1
2-Butanone	ND		15		ug/L			10/30/17 01:52	1
2-Hexanone	ND		2.0		ug/L			10/30/17 01:52	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/30/17 01:52	1
Acetone	ND		2.0		ug/L			10/30/17 01:52	1
Acrylonitrile	ND		5.0		ug/L			10/30/17 01:52	1
Benzene	ND		0.20		ug/L			10/30/17 01:52	1
Bromochloromethane	ND		0.20		ug/L			10/30/17 01:52	1
Bromodichloromethane	ND		0.20		ug/L			10/30/17 01:52	1
Bromoform	ND		0.50		ug/L			10/30/17 01:52	1
Bromomethane	ND		1.0		ug/L			10/30/17 01:52	1
Carbon disulfide	ND		0.20		ug/L			10/30/17 01:52	1
Carbon tetrachloride	ND		0.20		ug/L			10/30/17 01:52	1
Chlorobenzene	ND		0.20		ug/L			10/30/17 01:52	1
Chloroethane	ND		0.50		ug/L			10/30/17 01:52	1
Chloroform	ND		0.20		ug/L			10/30/17 01:52	1
Chloromethane	ND		0.30		ug/L			10/30/17 01:52	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 01:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/17 01:52	1
Dibromochloromethane	ND		0.20		ug/L			10/30/17 01:52	1
Dibromomethane	ND		0.20		ug/L			10/30/17 01:52	1
Ethylbenzene	ND		0.20		ug/L			10/30/17 01:52	1
m,p-Xylene	ND		0.50		ug/L			10/30/17 01:52	1
Methyl iodide	ND		0.50		ug/L			10/30/17 01:52	1
Methylene Chloride	ND		0.50		ug/L			10/30/17 01:52	1
o-Xylene	ND		0.50		ug/L			10/30/17 01:52	1
Styrene	ND		0.50		ug/L			10/30/17 01:52	1
Tetrachloroethene	ND		0.50		ug/L			10/30/17 01:52	1
Toluene	ND		0.20		ug/L			10/30/17 01:52	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 01:52	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/30/17 01:52	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/30/17 01:52	1
Trichloroethene	ND		0.20		ug/L			10/30/17 01:52	1
Trichlorofluoromethane	ND		0.50		ug/L			10/30/17 01:52	1
Vinyl acetate	ND	*	1.0		ug/L			10/30/17 01:52	1
Vinyl chloride	ND		0.020		ug/L			10/30/17 01:52	1

Client Sample ID: 1017-28
Date Collected: 10/25/17 16:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-17
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*46 - 150*		*10/30/17 01:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*81 - 120*		*10/30/17 01:52*	*1*
Dibromofluoromethane (Surr)	*103*		*42 - 132*		*10/30/17 01:52*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*10/30/17 01:52*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/30/17 01:52*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		1.1		mg/L		10/27/17 13:33	10/31/17 11:48	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:48	1
Magnesium	**48**		1.1		mg/L		10/27/17 13:33	10/31/17 11:48	1
Manganese	ND		0.020		mg/L		10/27/17 13:33	10/31/17 11:48	1
Potassium	**6.1**		3.3		mg/L		10/27/17 13:33	10/31/17 11:48	1
Sodium	**33**		2.0		mg/L		10/27/17 13:33	10/31/17 11:48	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Arsenic	**0.0053**		0.0010		mg/L		10/27/17 13:33	10/29/17 13:43	1
Barium	**0.023**		0.0012		mg/L		10/27/17 13:33	10/29/17 13:43	1
Beryllium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Cadmium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Chromium	**0.0067**		0.00040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Cobalt	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Copper	ND		0.0020		mg/L		10/27/17 13:33	10/29/17 13:43	1
Lead	ND		0.00080		mg/L		10/27/17 13:33	10/29/17 13:43	1
Nickel	ND		0.0030		mg/L		10/27/17 13:33	10/29/17 13:43	1
Selenium	ND		0.0080		mg/L		10/27/17 13:33	10/29/17 13:43	1
Silver	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Thallium	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 13:43	1
Vanadium	**0.0045**		0.0040		mg/L		10/27/17 13:33	10/29/17 13:43	1
Zinc	ND		0.0070		mg/L		10/27/17 13:33	10/29/17 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 16:43	1
Chloride	**63**		0.90		mg/L			10/28/17 16:43	1
Sulfate	**41**		1.2		mg/L			10/28/17 16:43	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**1.2**		0.15		mg/L			10/28/17 13:51	1
Total Organic Carbon	**2.0**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		5.0		mg/L			10/28/17 18:44	1
Bicarbonate Alkalinity as CaCO3	**300**		5.0		mg/L			10/28/17 18:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Total Dissolved Solids	**490**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	**11**		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-27
Date Collected: 10/25/17 17:38
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 02:18	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/30/17 02:18	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/30/17 02:18	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/30/17 02:18	1
1,1-Dichloroethane	ND		0.20		ug/L			10/30/17 02:18	1
1,1-Dichloroethene	ND		0.10		ug/L			10/30/17 02:18	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/30/17 02:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/30/17 02:18	1
1,2-Dibromoethane	ND		0.10		ug/L			10/30/17 02:18	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/30/17 02:18	1
1,2-Dichloroethane	ND		0.20		ug/L			10/30/17 02:18	1
1,2-Dichloropropane	ND		0.20		ug/L			10/30/17 02:18	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/30/17 02:18	1
2-Butanone	ND		15		ug/L			10/30/17 02:18	1
2-Hexanone	ND		2.0		ug/L			10/30/17 02:18	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/30/17 02:18	1
Acetone	ND		2.0		ug/L			10/30/17 02:18	1
Acrylonitrile	ND		5.0		ug/L			10/30/17 02:18	1
Benzene	ND		0.20		ug/L			10/30/17 02:18	1
Bromochloromethane	ND		0.20		ug/L			10/30/17 02:18	1
Bromodichloromethane	ND		0.20		ug/L			10/30/17 02:18	1
Bromoform	ND		0.50		ug/L			10/30/17 02:18	1
Bromomethane	ND		1.0		ug/L			10/30/17 02:18	1
Carbon disulfide	ND		0.20		ug/L			10/30/17 02:18	1
Carbon tetrachloride	ND		0.20		ug/L			10/30/17 02:18	1
Chlorobenzene	ND		0.20		ug/L			10/30/17 02:18	1
Chloroethane	ND		0.50		ug/L			10/30/17 02:18	1
Chloroform	ND		0.20		ug/L			10/30/17 02:18	1
Chloromethane	ND		0.30		ug/L			10/30/17 02:18	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 02:18	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/17 02:18	1
Dibromochloromethane	ND		0.20		ug/L			10/30/17 02:18	1
Dibromomethane	ND		0.20		ug/L			10/30/17 02:18	1
Ethylbenzene	ND		0.20		ug/L			10/30/17 02:18	1
m,p-Xylene	ND		0.50		ug/L			10/30/17 02:18	1
Methyl iodide	ND		0.50		ug/L			10/30/17 02:18	1
Methylene Chloride	ND		0.50		ug/L			10/30/17 02:18	1
o-Xylene	ND		0.50		ug/L			10/30/17 02:18	1
Styrene	ND		0.50		ug/L			10/30/17 02:18	1
Tetrachloroethene	ND		0.50		ug/L			10/30/17 02:18	1
Toluene	ND		0.20		ug/L			10/30/17 02:18	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/30/17 02:18	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/30/17 02:18	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/30/17 02:18	1
Trichloroethene	ND		0.20		ug/L			10/30/17 02:18	1
Trichlorofluoromethane	ND		0.50		ug/L			10/30/17 02:18	1
Vinyl acetate	ND	*	1.0		ug/L			10/30/17 02:18	1
Vinyl chloride	ND		0.020		ug/L			10/30/17 02:18	1

Client Sample ID: 1017-27
Date Collected: 10/25/17 17:38
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-18
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*46 - 150*		*10/30/17 02:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*		*10/30/17 02:18*	*1*
Dibromofluoromethane (Surr)	*102*		*42 - 132*		*10/30/17 02:18*	*1*
Toluene-d8 (Surr)	*107*		*75 - 125*		*10/30/17 02:18*	*1*
Trifluorotoluene (Surr)	*111*		*74 - 118*		*10/30/17 02:18*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**73**		1.1		mg/L		10/27/17 13:33	10/31/17 11:52	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:52	1
Magnesium	**61**		1.1		mg/L		10/27/17 13:33	10/31/17 11:52	1
Manganese	**0.20**		0.020		mg/L		10/27/17 13:33	10/31/17 11:52	1
Potassium	**8.4**		3.3		mg/L		10/27/17 13:33	10/31/17 11:52	1
Sodium	**37**		2.0		mg/L		10/27/17 13:33	10/31/17 11:52	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Arsenic	**0.011**		0.0010		mg/L		10/27/17 13:33	10/29/17 13:46	1
Barium	**0.043**		0.0012		mg/L		10/27/17 13:33	10/29/17 13:46	1
Beryllium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Cadmium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Chromium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Cobalt	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Copper	ND		0.0020		mg/L		10/27/17 13:33	10/29/17 13:46	1
Lead	ND		0.00080		mg/L		10/27/17 13:33	10/29/17 13:46	1
Nickel	ND		0.0030		mg/L		10/27/17 13:33	10/29/17 13:46	1
Selenium	ND		0.0080		mg/L		10/27/17 13:33	10/29/17 13:46	1
Silver	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Thallium	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 13:46	1
Vanadium	ND		0.0040		mg/L		10/27/17 13:33	10/29/17 13:46	1
Zinc	ND		0.0070		mg/L		10/27/17 13:33	10/29/17 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 16:54	1
Chloride	**68**		0.90		mg/L			10/28/17 16:54	1
Sulfate	**27**		1.2		mg/L			10/28/17 16:54	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND	F1	0.15		mg/L			10/28/17 13:52	1
Total Organic Carbon	**2.3**		1.0		mg/L			11/07/17 18:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			10/28/17 18:44	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			10/28/17 18:44	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			10/28/17 18:44	1
Total Dissolved Solids	**530**	**B**	10		mg/L			10/27/17 11:25	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: Trip Blank
Date Collected: 10/25/17 00:01
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 18:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 18:22	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 18:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 18:22	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 18:22	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 18:22	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 18:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 18:22	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 18:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 18:22	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 18:22	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 18:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 18:22	1
2-Butanone	ND		15		ug/L			10/29/17 18:22	1
2-Hexanone	ND		2.0		ug/L			10/29/17 18:22	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 18:22	1
Acetone	**3.6**		2.0		ug/L			10/29/17 18:22	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 18:22	1
Benzene	ND		0.20		ug/L			10/29/17 18:22	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 18:22	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 18:22	1
Bromoform	ND		0.50		ug/L			10/29/17 18:22	1
Bromomethane	ND		1.0		ug/L			10/29/17 18:22	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 18:22	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 18:22	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 18:22	1
Chloroethane	ND		0.50		ug/L			10/29/17 18:22	1
Chloroform	ND		0.20		ug/L			10/29/17 18:22	1
Chloromethane	ND		0.30		ug/L			10/29/17 18:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 18:22	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 18:22	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 18:22	1
Dibromomethane	ND		0.20		ug/L			10/29/17 18:22	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 18:22	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 18:22	1
Methyl iodide	ND		0.50		ug/L			10/29/17 18:22	1
Methylene Chloride	**2.3**		0.50		ug/L			10/29/17 18:22	1
o-Xylene	ND		0.50		ug/L			10/29/17 18:22	1
Styrene	ND		0.50		ug/L			10/29/17 18:22	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 18:22	1
Toluene	ND		0.20		ug/L			10/29/17 18:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 18:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 18:22	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 18:22	1
Trichloroethene	ND		0.20		ug/L			10/29/17 18:22	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 18:22	1
Vinyl acetate	ND	*	1.0		ug/L			10/29/17 18:22	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 18:22	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: Trip Blank
Date Collected: 10/25/17 00:01
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-19
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		46 - 150		10/29/17 18:22	1
4-Bromofluorobenzene (Surr)	100		81 - 120		10/29/17 18:22	1
Dibromofluoromethane (Surr)	98		42 - 132		10/29/17 18:22	1
Toluene-d8 (Surr)	107		75 - 125		10/29/17 18:22	1
Trifluorotoluene (Surr)	116		74 - 118		10/29/17 18:22	1

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

Lab Sample ID: MB 580-260221/5
Matrix: Water
Analysis Batch: 260221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 17:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			10/29/17 17:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			10/29/17 17:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			10/29/17 17:03	1
1,1-Dichloroethane	ND		0.20		ug/L			10/29/17 17:03	1
1,1-Dichloroethene	ND		0.10		ug/L			10/29/17 17:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			10/29/17 17:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			10/29/17 17:03	1
1,2-Dibromoethane	ND		0.10		ug/L			10/29/17 17:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			10/29/17 17:03	1
1,2-Dichloroethane	ND		0.20		ug/L			10/29/17 17:03	1
1,2-Dichloropropane	ND		0.20		ug/L			10/29/17 17:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			10/29/17 17:03	1
2-Butanone	ND		15		ug/L			10/29/17 17:03	1
2-Hexanone	ND		2.0		ug/L			10/29/17 17:03	1
4-Methyl-2-pentanone	ND		5.0		ug/L			10/29/17 17:03	1
Acetone	ND		2.0		ug/L			10/29/17 17:03	1
Acrylonitrile	ND		5.0		ug/L			10/29/17 17:03	1
Benzene	ND		0.20		ug/L			10/29/17 17:03	1
Bromochloromethane	ND		0.20		ug/L			10/29/17 17:03	1
Bromodichloromethane	ND		0.20		ug/L			10/29/17 17:03	1
Bromoform	ND		0.50		ug/L			10/29/17 17:03	1
Bromomethane	ND		1.0		ug/L			10/29/17 17:03	1
Carbon disulfide	ND		0.20		ug/L			10/29/17 17:03	1
Carbon tetrachloride	ND		0.20		ug/L			10/29/17 17:03	1
Chlorobenzene	ND		0.20		ug/L			10/29/17 17:03	1
Chloroethane	ND		0.50		ug/L			10/29/17 17:03	1
Chloroform	ND		0.20		ug/L			10/29/17 17:03	1
Chloromethane	ND		0.30		ug/L			10/29/17 17:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 17:03	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/17 17:03	1
Dibromochloromethane	ND		0.20		ug/L			10/29/17 17:03	1
Dibromomethane	ND		0.20		ug/L			10/29/17 17:03	1
Ethylbenzene	ND		0.20		ug/L			10/29/17 17:03	1
m,p-Xylene	ND		0.50		ug/L			10/29/17 17:03	1
Methyl iodide	ND		0.50		ug/L			10/29/17 17:03	1
Methylene Chloride	ND		0.50		ug/L			10/29/17 17:03	1
o-Xylene	ND		0.50		ug/L			10/29/17 17:03	1
Styrene	ND		0.50		ug/L			10/29/17 17:03	1
Tetrachloroethene	ND		0.50		ug/L			10/29/17 17:03	1
Toluene	ND		0.20		ug/L			10/29/17 17:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			10/29/17 17:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			10/29/17 17:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			10/29/17 17:03	1
Trichloroethene	ND		0.20		ug/L			10/29/17 17:03	1
Trichlorofluoromethane	ND		0.50		ug/L			10/29/17 17:03	1
Vinyl acetate	ND		1.0		ug/L			10/29/17 17:03	1
Vinyl chloride	ND		0.020		ug/L			10/29/17 17:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*10/29/17 17:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*10/29/17 17:03*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*10/29/17 17:03*	*1*
Toluene-d8 (Surr)	*105*		*75 - 125*		*10/29/17 17:03*	*1*
Trifluorotoluene (Surr)	*110*		*74 - 118*		*10/29/17 17:03*	*1*

Lab Sample ID: LCS 580-260221/6
Matrix: Water
Analysis Batch: 260221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	5.01		ug/L		100	68 - 139
1,1,1-Trichloroethane	5.00	4.62		ug/L		92	56 - 150
1,1,2,2-Tetrachloroethane	5.00	5.40		ug/L		108	60 - 134
1,1,2-Trichloroethane	5.00	5.18		ug/L		104	62 - 137
1,1-Dichloroethane	5.00	4.76		ug/L		95	68 - 135
1,1-Dichloroethene	5.00	4.34		ug/L		87	64 - 125
1,2,3-Trichloropropane	5.00	4.99		ug/L		100	45 - 150
1,2-Dibromo-3-Chloropropane	5.00	4.60		ug/L		92	34 - 150
1,2-Dibromoethane	5.00	4.98		ug/L		100	56 - 146
1,2-Dichlorobenzene	5.00	4.99		ug/L		100	73 - 120
1,2-Dichloroethane	5.00	4.99		ug/L		100	63 - 150
1,2-Dichloropropane	5.00	4.58		ug/L		92	72 - 120
1,4-Dichlorobenzene	5.00	5.06		ug/L		101	77 - 120
2-Butanone	25.0	22.8		ug/L		91	30 - 150
2-Hexanone	25.0	24.9		ug/L		100	25 - 150
4-Methyl-2-pentanone	25.0	24.8		ug/L		99	36 - 150
Acetone	25.0	28.3		ug/L		113	20 - 138
Acrylonitrile	50.0	46.9		ug/L		94	55 - 134
Benzene	5.00	4.61		ug/L		92	73 - 120
Bromochloromethane	5.00	4.48		ug/L		90	71 - 131
Bromodichloromethane	5.00	4.75		ug/L		95	62 - 150
Bromoform	5.00	4.89		ug/L		98	51 - 137
Bromomethane	5.00	3.94		ug/L		79	61 - 135
Carbon disulfide	5.00	4.48		ug/L		90	65 - 128
Carbon tetrachloride	5.00	4.62		ug/L		92	54 - 150
Chlorobenzene	5.00	4.97		ug/L		99	74 - 114
Chloroethane	5.00	4.37		ug/L		87	58 - 130
Chloroform	5.00	4.65		ug/L		93	71 - 130
Chloromethane	5.00	3.87		ug/L		77	40 - 150
cis-1,2-Dichloroethene	5.00	4.66		ug/L		93	73 - 130
cis-1,3-Dichloropropene	5.00	5.07		ug/L		101	54 - 150
Dibromochloromethane	5.00	5.06		ug/L		101	46 - 150
Dibromomethane	5.00	4.45		ug/L		89	65 - 137
Ethylbenzene	5.00	5.07		ug/L		101	74 - 125
m,p-Xylene	5.00	5.00		ug/L		100	73 - 130
Methyl iodide	5.00	4.45		ug/L		89	47 - 145
Methylene Chloride	5.00	4.71		ug/L		94	58 - 134
o-Xylene	5.00	5.17		ug/L		103	80 - 139
Styrene	5.00	4.77		ug/L		95	68 - 136
Tetrachloroethene	5.00	5.12		ug/L		102	67 - 123
Toluene	5.00	5.23		ug/L		105	70 - 126
trans-1,2-Dichloroethene	5.00	4.41		ug/L		88	69 - 124
trans-1,3-Dichloropropene	5.00	4.99		ug/L		100	40 - 150

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

Lab Sample ID: LCS 580-260221/6
Matrix: Water
Analysis Batch: 260221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	4.81		ug/L		96	20 - 150
Trichloroethene	5.00	4.21		ug/L		84	72 - 123
Trichlorofluoromethane	5.00	4.65		ug/L		93	60 - 150
Vinyl acetate	12.5	18.1		ug/L		144	30 - 150
Vinyl chloride	5.00	4.20		ug/L		84	59 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
Toluene-d8 (Surr)	*105*		*75 - 125*
Trifluorotoluene (Surr)	*112*		*74 - 118*

Lab Sample ID: LCSD 580-260221/7
Matrix: Water
Analysis Batch: 260221

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	5.25		ug/L		105	68 - 139	5	20
1,1,1-Trichloroethane	5.00	4.84		ug/L		97	56 - 150	5	29
1,1,2,2-Tetrachloroethane	5.00	5.56		ug/L		111	60 - 134	3	25
1,1,2-Trichloroethane	5.00	5.28		ug/L		106	62 - 137	2	30
1,1-Dichloroethane	5.00	4.91		ug/L		98	68 - 135	3	27
1,1-Dichloroethene	5.00	4.67		ug/L		93	64 - 125	7	28
1,2,3-Trichloropropane	5.00	5.15		ug/L		103	45 - 150	3	20
1,2-Dibromo-3-Chloropropane	5.00	4.91		ug/L		98	34 - 150	7	20
1,2-Dibromoethane	5.00	5.00		ug/L		100	56 - 146	0	20
1,2-Dichlorobenzene	5.00	5.21		ug/L		104	73 - 120	4	14
1,2-Dichloroethane	5.00	5.24		ug/L		105	63 - 150	5	29
1,2-Dichloropropane	5.00	4.81		ug/L		96	72 - 120	5	20
1,4-Dichlorobenzene	5.00	5.24		ug/L		105	77 - 120	3	11
2-Butanone	25.0	23.0		ug/L		92	30 - 150	1	35
2-Hexanone	25.0	25.2		ug/L		101	25 - 150	1	28
4-Methyl-2-pentanone	25.0	26.0		ug/L		104	36 - 150	5	34
Acetone	25.0	27.4		ug/L		110	20 - 138	3	35
Acrylonitrile	50.0	49.3		ug/L		99	55 - 134	5	35
Benzene	5.00	4.78		ug/L		96	73 - 120	4	20
Bromochloromethane	5.00	4.63		ug/L		93	71 - 131	3	20
Bromodichloromethane	5.00	4.83		ug/L		97	62 - 150	2	20
Bromoform	5.00	4.93		ug/L		99	51 - 137	1	20
Bromomethane	5.00	4.19		ug/L		84	61 - 135	6	31
Carbon disulfide	5.00	4.71		ug/L		94	65 - 128	5	32
Carbon tetrachloride	5.00	4.98		ug/L		100	54 - 150	8	30
Chlorobenzene	5.00	5.10		ug/L		102	74 - 114	3	12
Chloroethane	5.00	4.40		ug/L		88	58 - 130	1	35
Chloroform	5.00	4.84		ug/L		97	71 - 130	4	20
Chloromethane	5.00	4.06		ug/L		81	40 - 150	5	31
cis-1,2-Dichloroethene	5.00	4.74		ug/L		95	73 - 130	2	20

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

Lab Sample ID: LCSD 580-260221/7
Matrix: Water
Analysis Batch: 260221

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			5.00	5.18		ug/L		104	54 - 150	2	28
Dibromochloromethane			5.00	5.25		ug/L		105	46 - 150	4	20
Dibromomethane			5.00	4.59		ug/L		92	65 - 137	3	20
Ethylbenzene			5.00	5.19		ug/L		104	74 - 125	2	20
m,p-Xylene			5.00	5.17		ug/L		103	73 - 130	3	20
Methyl iodide			5.00	4.72		ug/L		94	47 - 145	6	35
Methylene Chloride			5.00	5.09		ug/L		102	58 - 134	8	29
o-Xylene			5.00	5.30		ug/L		106	80 - 139	3	20
Styrene			5.00	4.89		ug/L		98	68 - 136	2	20
Tetrachloroethene			5.00	5.06		ug/L		101	67 - 123	1	20
Toluene			5.00	5.30		ug/L		106	70 - 126	1	20
trans-1,2-Dichloroethene			5.00	4.64		ug/L		93	69 - 124	5	27
trans-1,3-Dichloropropene			5.00	5.28		ug/L		106	40 - 150	6	30
trans-1,4-Dichloro-2-butene			5.00	4.61		ug/L		92	20 - 150	4	20
Trichloroethene			5.00	4.29		ug/L		86	72 - 123	2	20
Trichlorofluoromethane			5.00	4.69		ug/L		94	60 - 150	1	31
Vinyl acetate			12.5	18.9	*	ug/L		151	30 - 150	5	35
Vinyl chloride			5.00	4.57		ug/L		91	59 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
Toluene-d8 (Surr)	*104*		*75 - 125*
Trifluorotoluene (Surr)	*107*		*74 - 118*

Method: 8151A - Herbicides (GC/MS)

Lab Sample ID: MB 580-260233/1-A
Matrix: Water
Analysis Batch: 260693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
2,4-D	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
2,4-DB	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
4-Nitrophenol	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
Dalapon	ND		0.40		ug/L		10/30/17 11:21	11/03/17 18:46	1
Dicamba	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
Dichlorprop	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
Dinoseb	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
MCPA	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
Mecoprop	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
Pentachlorophenol	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1
Silvex (2,4,5-TP)	ND		0.25		ug/L		10/30/17 11:21	11/03/17 18:46	1

Method: 8151A - Herbicides (GC/MS) (Continued)

Lab Sample ID: MB 580-260233/1-A
Matrix: Water
Analysis Batch: 260693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260233

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	88		51 - 150	10/30/17 11:21	11/03/17 18:46	1

Lab Sample ID: LCS 580-260233/2-A
Matrix: Water
Analysis Batch: 260693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	5.00	3.68		ug/L		74	20 - 150
2,4-D	5.00	3.97		ug/L		79	20 - 150
2,4-DB	5.00	4.99		ug/L		100	50 - 150
4-Nitrophenol	5.00	2.51		ug/L		50	28 - 150
Dalapon	5.00	2.82		ug/L		56	20 - 120
Dicamba	5.00	3.84		ug/L		77	20 - 150
Dichlorprop	5.00	4.91		ug/L		98	23 - 150
Dinoseb	5.00	4.31		ug/L		86	24 - 150
MCPA	5.00	3.69		ug/L		74	21 - 150
Mecoprop	5.00	4.94		ug/L		99	51 - 150
Pentachlorophenol	5.00	3.47		ug/L		69	48 - 150
Silvex (2,4,5-TP)	5.00	5.15		ug/L		103	24 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	91		51 - 150

Lab Sample ID: LCSD 580-260233/3-A
Matrix: Water
Analysis Batch: 260693

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260233

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	5.00	4.39		ug/L		88	20 - 150	18	35
2,4-D	5.00	4.38		ug/L		88	20 - 150	10	35
2,4-DB	5.00	5.16		ug/L		103	50 - 150	3	35
4-Nitrophenol	5.00	4.01	*	ug/L		80	28 - 150	46	35
Dalapon	5.00	2.33		ug/L		47	20 - 120	19	35
Dicamba	5.00	4.21		ug/L		84	20 - 150	9	35
Dichlorprop	5.00	5.06		ug/L		101	23 - 150	3	35
Dinoseb	5.00	4.26		ug/L		85	24 - 150	1	35
MCPA	5.00	4.08		ug/L		82	21 - 150	10	35
Mecoprop	5.00	5.31		ug/L		106	51 - 150	7	35
Pentachlorophenol	5.00	3.81		ug/L		76	48 - 150	9	35
Silvex (2,4,5-TP)	5.00	5.57		ug/L		111	24 - 150	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	94		51 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-260026/21-A
Matrix: Water
Analysis Batch: 260203

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		10/27/17 11:26	10/27/17 17:36	1
Iron	ND		0.30		mg/L		10/27/17 11:26	10/27/17 17:36	1
Magnesium	ND		1.1		mg/L		10/27/17 11:26	10/27/17 17:36	1
Manganese	ND		0.020		mg/L		10/27/17 11:26	10/27/17 17:36	1
Potassium	ND		3.3		mg/L		10/27/17 11:26	10/27/17 17:36	1
Sodium	ND		2.0		mg/L		10/27/17 11:26	10/27/17 17:36	1

Lab Sample ID: LCS 580-260026/22-A
Matrix: Water
Analysis Batch: 260203

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.4		mg/L		102	80 - 120
Iron	22.0	22.1		mg/L		100	80 - 120
Magnesium	20.0	19.8		mg/L		99	80 - 120
Manganese	1.00	0.983		mg/L		98	80 - 120
Potassium	20.0	18.8		mg/L		94	80 - 120
Sodium	20.0	20.3		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-260026/23-A
Matrix: Water
Analysis Batch: 260203

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	19.4		mg/L		97	80 - 120	5	20
Iron	22.0	21.0		mg/L		95	80 - 120	5	20
Magnesium	20.0	18.8		mg/L		94	80 - 120	5	20
Manganese	1.00	0.946		mg/L		95	80 - 120	4	20
Potassium	20.0	23.1		mg/L		115	80 - 120	20	20
Sodium	20.0	19.2		mg/L		96	80 - 120	5	20

Lab Sample ID: MB 580-260074/14-A
Matrix: Water
Analysis Batch: 260340

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		10/27/17 13:33	10/31/17 11:01	1
Iron	ND		0.30		mg/L		10/27/17 13:33	10/31/17 11:01	1
Magnesium	ND		1.1		mg/L		10/27/17 13:33	10/31/17 11:01	1
Manganese	ND		0.020		mg/L		10/27/17 13:33	10/31/17 11:01	1
Potassium	ND		3.3		mg/L		10/27/17 13:33	10/31/17 11:01	1
Sodium	ND		2.0		mg/L		10/27/17 13:33	10/31/17 11:01	1

Lab Sample ID: LCS 580-260074/15-A
Matrix: Water
Analysis Batch: 260340

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20.0	20.5		mg/L		103	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-260074/15-A
Matrix: Water
Analysis Batch: 260340

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	22.0	22.4		mg/L		102	80 - 120
Magnesium	20.0	20.1		mg/L		100	80 - 120
Manganese	1.00	1.03		mg/L		103	80 - 120
Potassium	20.0	19.0		mg/L		95	80 - 120
Sodium	20.0	21.0		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-260074/16-A
Matrix: Water
Analysis Batch: 260340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.8		mg/L		104	80 - 120	1	20
Iron	22.0	22.8		mg/L		103	80 - 120	1	20
Magnesium	20.0	20.3		mg/L		102	80 - 120	1	20
Manganese	1.00	1.04		mg/L		104	80 - 120	0	20
Potassium	20.0	19.2		mg/L		96	80 - 120	1	20
Sodium	20.0	21.2		mg/L		106	80 - 120	1	20

Lab Sample ID: 580-72413-1 MS
Matrix: Water
Analysis Batch: 260203

Client Sample ID: 1017-02
Prep Type: Dissolved
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	68		20.0	85.7		mg/L		90	75 - 125
Iron	ND		22.0	21.4		mg/L		97	75 - 125
Magnesium	41		20.0	58.8		mg/L		89	75 - 125
Manganese	0.26		1.00	1.21		mg/L		95	75 - 125
Potassium	6.4		20.0	24.7		mg/L		92	75 - 125
Sodium	25		20.0	44.3		mg/L		96	75 - 125

Lab Sample ID: 580-72413-1 MSD
Matrix: Water
Analysis Batch: 260203

Client Sample ID: 1017-02
Prep Type: Dissolved
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	68		20.0	86.7		mg/L		95	75 - 125	1	20
Iron	ND		22.0	21.7		mg/L		99	75 - 125	2	20
Magnesium	41		20.0	59.9		mg/L		95	75 - 125	2	20
Manganese	0.26		1.00	1.23		mg/L		97	75 - 125	2	20
Potassium	6.4		20.0	24.6		mg/L		91	75 - 125	1	20
Sodium	25		20.0	44.8		mg/L		98	75 - 125	1	20

Lab Sample ID: 580-72413-1 DU
Matrix: Water
Analysis Batch: 260203

Client Sample ID: 1017-02
Prep Type: Dissolved
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	68		68.6		mg/L		1	20
Iron	ND		0.399		mg/L		NC	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-72413-1 DU
Matrix: Water
Analysis Batch: 260203

Client Sample ID: 1017-02
Prep Type: Dissolved
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Magnesium	41			41.5		mg/L				1	20
Manganese	0.26			0.260		mg/L				2	20
Potassium	6.4			6.37		mg/L				0.2	20
Sodium	25			25.3		mg/L				0.8	20

Lab Sample ID: 580-72413-11 MS
Matrix: Water
Analysis Batch: 260340

Client Sample ID: 1017-08
Prep Type: Dissolved
Prep Batch: 260074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	130		20.0	145	4	mg/L		86	75 - 125
Iron	ND		22.0	22.2		mg/L		101	75 - 125
Magnesium	97		20.0	114	4	mg/L		82	75 - 125
Manganese	0.23		1.00	1.23		mg/L		101	75 - 125
Potassium	11		20.0	30.0		mg/L		95	75 - 125
Sodium	49		20.0	68.2		mg/L		97	75 - 125

Lab Sample ID: 580-72413-11 MSD
Matrix: Water
Analysis Batch: 260340

Client Sample ID: 1017-08
Prep Type: Dissolved
Prep Batch: 260074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	130		20.0	143	4	mg/L		75	75 - 125	2	20
Iron	ND		22.0	21.4		mg/L		97	75 - 125	4	20
Magnesium	97		20.0	112	4	mg/L		70	75 - 125	2	20
Manganese	0.23		1.00	1.19		mg/L		96	75 - 125	4	20
Potassium	11		20.0	29.3		mg/L		92	75 - 125	2	20
Sodium	49		20.0	67.8		mg/L		94	75 - 125	1	20

Lab Sample ID: 580-72413-11 DU
Matrix: Water
Analysis Batch: 260340

Client Sample ID: 1017-08
Prep Type: Dissolved
Prep Batch: 260074

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	130			130		mg/L				2	20
Iron	ND			ND		mg/L				NC	20
Magnesium	97			98.6		mg/L				1	20
Manganese	0.23			0.229		mg/L				1	20
Potassium	11			11.1		mg/L				1	20
Sodium	49			49.6		mg/L				1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-260026/21-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:40	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-260026/21-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 12:40	1
Barium	ND		0.0012		mg/L		10/27/17 11:26	10/29/17 12:40	1
Beryllium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:40	1
Cadmium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:40	1
Chromium	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:40	1
Cobalt	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:40	1
Copper	ND		0.0020		mg/L		10/27/17 11:26	10/29/17 12:40	1
Lead	ND		0.00080		mg/L		10/27/17 11:26	10/29/17 12:40	1
Nickel	ND		0.0030		mg/L		10/27/17 11:26	10/29/17 12:40	1
Selenium	ND		0.0080		mg/L		10/27/17 11:26	10/29/17 12:40	1
Silver	ND		0.00040		mg/L		10/27/17 11:26	10/29/17 12:40	1
Thallium	ND		0.0010		mg/L		10/27/17 11:26	10/29/17 12:40	1
Vanadium	ND		0.0040		mg/L		10/27/17 11:26	10/29/17 12:40	1
Zinc	ND		0.0070		mg/L		10/27/17 11:26	10/29/17 12:40	1

Lab Sample ID: LCS 580-260026/22-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.75		mg/L		92	80 - 120
Arsenic	4.00	3.88		mg/L		97	80 - 120
Barium	4.00	3.67		mg/L		92	80 - 120
Beryllium	0.100	0.0936		mg/L		94	80 - 120
Cadmium	0.100	0.0939		mg/L		94	80 - 120
Chromium	0.400	0.383		mg/L		96	80 - 120
Cobalt	1.00	0.952		mg/L		95	80 - 120
Copper	0.500	0.494		mg/L		99	80 - 120
Lead	1.00	0.932		mg/L		93	80 - 120
Nickel	1.00	0.961		mg/L		96	80 - 120
Selenium	4.00	3.86		mg/L		97	80 - 120
Silver	0.600	0.571		mg/L		95	80 - 120
Thallium	4.00	3.55		mg/L		89	80 - 120
Vanadium	1.00	0.966		mg/L		97	80 - 120
Zinc	4.00	3.84		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-260026/23-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.77		mg/L		92	80 - 120	1	20
Arsenic	4.00	3.82		mg/L		96	80 - 120	2	20
Barium	4.00	3.67		mg/L		92	80 - 120	0	20
Beryllium	0.100	0.0926		mg/L		93	80 - 120	1	20
Cadmium	0.100	0.0930		mg/L		93	80 - 120	1	20
Chromium	0.400	0.382		mg/L		96	80 - 120	0	20
Cobalt	1.00	0.938		mg/L		94	80 - 120	2	20
Copper	0.500	0.491		mg/L		98	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-260026/23-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	0.924		mg/L		92	80 - 120	1	20
Nickel			1.00	0.939		mg/L		94	80 - 120	2	20
Selenium			4.00	3.81		mg/L		95	80 - 120	1	20
Silver			0.600	0.569		mg/L		95	80 - 120	0	20
Thallium			4.00	3.50		mg/L		87	80 - 120	2	20
Vanadium			1.00	0.938		mg/L		94	80 - 120	3	20
Zinc			4.00	3.77		mg/L		94	80 - 120	2	20

Lab Sample ID: 580-72413-1 MS
Matrix: Water
Analysis Batch: 260202

Client Sample ID: 1017-02
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.92		mg/L		97	80 - 120
Arsenic	0.0061		4.00	3.87		mg/L		97	80 - 120
Barium	0.026		4.00	3.89		mg/L		97	80 - 120
Beryllium	ND		0.100	0.0949		mg/L		95	80 - 120
Cadmium	ND		0.100	0.0950		mg/L		95	80 - 120
Chromium	ND		0.400	0.385		mg/L		96	80 - 120
Cobalt	ND		1.00	0.970		mg/L		97	80 - 120
Copper	ND		0.500	0.492		mg/L		98	80 - 120
Lead	ND		1.00	0.958		mg/L		96	80 - 120
Nickel	ND		1.00	0.942		mg/L		94	80 - 120
Selenium	ND		4.00	3.98		mg/L		100	80 - 120
Silver	ND		0.600	0.573		mg/L		96	80 - 120
Thallium	ND		4.00	3.71		mg/L		93	80 - 120
Vanadium	ND		1.00	0.957		mg/L		96	80 - 120
Zinc	ND		4.00	3.79		mg/L		95	80 - 120

Lab Sample ID: 580-72413-1 MSD
Matrix: Water
Analysis Batch: 260202

Client Sample ID: 1017-02
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	2.91		mg/L		97	80 - 120	0	20
Arsenic	0.0061		4.00	3.96		mg/L		99	80 - 120	2	20
Barium	0.026		4.00	3.95		mg/L		98	80 - 120	1	20
Beryllium	ND		0.100	0.0963		mg/L		96	80 - 120	1	20
Cadmium	ND		0.100	0.0970		mg/L		97	80 - 120	2	20
Chromium	ND		0.400	0.390		mg/L		97	80 - 120	1	20
Cobalt	ND		1.00	0.987		mg/L		99	80 - 120	2	20
Copper	ND		0.500	0.494		mg/L		99	80 - 120	0	20
Lead	ND		1.00	0.966		mg/L		97	80 - 120	1	20
Nickel	ND		1.00	0.973		mg/L		97	80 - 120	3	20
Selenium	ND		4.00	3.95		mg/L		99	80 - 120	1	20
Silver	ND		0.600	0.571		mg/L		95	80 - 120	0	20
Thallium	ND		4.00	3.75		mg/L		94	80 - 120	1	20
Vanadium	ND		1.00	0.969		mg/L		97	80 - 120	1	20
Zinc	ND		4.00	3.88		mg/L		97	80 - 120	2	20

Lab Sample ID: 580-72413-1 DU
Matrix: Water
Analysis Batch: 260202

Client Sample ID: 1017-02
Prep Type: Total Recoverable
Prep Batch: 260026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0061		0.00613		mg/L		0	20
Barium	0.026		0.0262		mg/L		0.4	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Lab Sample ID: MB 580-260074/14-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Arsenic	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 14:05	1
Barium	ND		0.0012		mg/L		10/27/17 13:33	10/29/17 14:05	1
Beryllium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Cadmium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Chromium	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Cobalt	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Copper	ND		0.0020		mg/L		10/27/17 13:33	10/29/17 14:05	1
Lead	ND		0.00080		mg/L		10/27/17 13:33	10/29/17 14:05	1
Nickel	ND		0.0030		mg/L		10/27/17 13:33	10/29/17 14:05	1
Selenium	ND		0.0080		mg/L		10/27/17 13:33	10/29/17 14:05	1
Silver	ND		0.00040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Thallium	ND		0.0010		mg/L		10/27/17 13:33	10/29/17 14:05	1
Vanadium	ND		0.0040		mg/L		10/27/17 13:33	10/29/17 14:05	1
Zinc	ND		0.0070		mg/L		10/27/17 13:33	10/29/17 14:05	1

Lab Sample ID: LCS 580-260074/15-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	2.95		mg/L		98	80 - 120
Arsenic	4.00	4.12		mg/L		103	80 - 120
Barium	4.00	3.95		mg/L		99	80 - 120
Beryllium	0.100	0.0902		mg/L		90	80 - 120
Cadmium	0.100	0.0968		mg/L		97	80 - 120
Chromium	0.400	0.383		mg/L		96	80 - 120
Cobalt	1.00	1.02		mg/L		102	80 - 120
Copper	0.500	0.522		mg/L		104	80 - 120
Lead	1.00	1.01		mg/L		101	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-260074/15-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	1.00	1.02		mg/L		102	80 - 120
Selenium	4.00	3.94		mg/L		99	80 - 120
Silver	0.600	0.572		mg/L		95	80 - 120
Thallium	4.00	3.78		mg/L		95	80 - 120
Vanadium	1.00	0.986		mg/L		99	80 - 120
Zinc	4.00	4.02		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-260074/16-A
Matrix: Water
Analysis Batch: 260202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.00	2.94		mg/L		98	80 - 120	0	20
Arsenic	4.00	4.01		mg/L		100	80 - 120	3	20
Barium	4.00	3.94		mg/L		99	80 - 120	0	20
Beryllium	0.100	0.0941		mg/L		94	80 - 120	4	20
Cadmium	0.100	0.0976		mg/L		98	80 - 120	1	20
Chromium	0.400	0.376		mg/L		94	80 - 120	2	20
Cobalt	1.00	0.971		mg/L		97	80 - 120	5	20
Copper	0.500	0.507		mg/L		101	80 - 120	3	20
Lead	1.00	0.996		mg/L		100	80 - 120	2	20
Nickel	1.00	0.974		mg/L		97	80 - 120	5	20
Selenium	4.00	4.02		mg/L		101	80 - 120	2	20
Silver	0.600	0.573		mg/L		95	80 - 120	0	20
Thallium	4.00	3.73		mg/L		93	80 - 120	1	20
Vanadium	1.00	0.964		mg/L		96	80 - 120	2	20
Zinc	4.00	3.89		mg/L		97	80 - 120	3	20

Lab Sample ID: 580-72413-11 MS
Matrix: Water
Analysis Batch: 260202

Client Sample ID: 1017-08
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	2.93		mg/L		98	80 - 120
Arsenic	0.0034		4.00	4.01		mg/L		100	80 - 120
Barium	0.083		4.00	4.01		mg/L		98	80 - 120
Beryllium	ND		0.100	0.0950		mg/L		95	80 - 120
Cadmium	ND		0.100	0.0947		mg/L		95	80 - 120
Chromium	ND		0.400	0.381		mg/L		95	80 - 120
Cobalt	ND		1.00	0.995		mg/L		99	80 - 120
Copper	ND		0.500	0.505		mg/L		101	80 - 120
Lead	ND		1.00	1.00		mg/L		100	80 - 120
Nickel	0.0086		1.00	0.982		mg/L		97	80 - 120
Selenium	ND		4.00	3.99		mg/L		100	80 - 120
Silver	ND		0.600	0.570		mg/L		95	80 - 120
Thallium	ND		4.00	3.79		mg/L		95	80 - 120
Vanadium	ND		1.00	0.978		mg/L		98	80 - 120
Zinc	ND		4.00	3.88		mg/L		97	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-72413-11 MSD
Matrix: Water
Analysis Batch: 260202

Client Sample ID: 1017-08
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.01		mg/L		100	80 - 120	3	20
Arsenic	0.0034		4.00	4.09		mg/L		102	80 - 120	2	20
Barium	0.083		4.00	4.06		mg/L		100	80 - 120	1	20
Beryllium	ND		0.100	0.0920		mg/L		92	80 - 120	3	20
Cadmium	ND		0.100	0.0980		mg/L		98	80 - 120	4	20
Chromium	ND		0.400	0.391		mg/L		98	80 - 120	3	20
Cobalt	ND		1.00	1.01		mg/L		101	80 - 120	2	20
Copper	ND		0.500	0.511		mg/L		102	80 - 120	1	20
Lead	ND		1.00	1.01		mg/L		101	80 - 120	1	20
Nickel	0.0086		1.00	0.986		mg/L		98	80 - 120	0	20
Selenium	ND		4.00	4.04		mg/L		101	80 - 120	1	20
Silver	ND		0.600	0.574		mg/L		96	80 - 120	1	20
Thallium	ND		4.00	3.91		mg/L		98	80 - 120	3	20
Vanadium	ND		1.00	0.977		mg/L		97	80 - 120	0	20
Zinc	ND		4.00	3.97		mg/L		99	80 - 120	2	20

Lab Sample ID: 580-72413-11 DU
Matrix: Water
Analysis Batch: 260202

Client Sample ID: 1017-08
Prep Type: Total Recoverable
Prep Batch: 260074

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0034		0.00344		mg/L		2	20
Barium	0.083		0.0844		mg/L		2	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0086		0.00887		mg/L		4	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Thallium	ND		ND		mg/L		NC	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	ND		ND		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-260242/3
Matrix: Water
Analysis Batch: 260242

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/28/17 12:49	1
Chloride	ND		0.90		mg/L			10/28/17 12:49	1
Sulfate	ND		1.2		mg/L			10/28/17 12:49	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-260242/4
Matrix: Water
Analysis Batch: 260242

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	5.11		mg/L		102	90 - 110
Chloride	50.0	52.3		mg/L		105	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: 580-72413-1 MS
Matrix: Water
Analysis Batch: 260242

Client Sample ID: 1017-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	5.41		mg/L		106	90 - 110
Chloride	34		50.0	87.6		mg/L		106	90 - 110
Sulfate	16		50.0	70.7		mg/L		110	90 - 110

Lab Sample ID: 580-72413-1 MSD
Matrix: Water
Analysis Batch: 260242

Client Sample ID: 1017-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.39		mg/L		106	90 - 110	0	15
Chloride	34		50.0	87.7		mg/L		106	90 - 110	0	15
Sulfate	16		50.0	70.6		mg/L		110	90 - 110	0	15

Lab Sample ID: 580-72413-13 MS
Matrix: Water
Analysis Batch: 260242

Client Sample ID: 1017-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND	F1	5.00	ND	F1	mg/L		0	90 - 110
Chloride	55		50.0	104		mg/L		98	90 - 110
Sulfate	ND	F1	50.0	147	F1	mg/L		295	90 - 110

Lab Sample ID: 580-72413-13 MSD
Matrix: Water
Analysis Batch: 260242

Client Sample ID: 1017-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1	5.00	ND	F1	mg/L		0	90 - 110	NC	15
Chloride	55		50.0	105		mg/L		99	90 - 110	1	15
Sulfate	ND	F1	50.0	148	F1	mg/L		296	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-260912/1-A
Matrix: Water
Analysis Batch: 260952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-260912/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260952 — **Prep Batch: 260912**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.00	1.84		mg/L		92	90 - 110		

Lab Sample ID: 580-72413-1 MS — **Client Sample ID: 1017-02**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260952 — **Prep Batch: 260912**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	ND	F1	2.00	1.87	F1	mg/L		88	90 - 110		

Lab Sample ID: 580-72413-1 MSD — **Client Sample ID: 1017-02**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260952 — **Prep Batch: 260912**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	ND	F1	2.00	1.89	F1	mg/L		89	90 - 110	1	20

Lab Sample ID: 580-72413-1 DU — **Client Sample ID: 1017-02**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260952 — **Prep Batch: 260912**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND	F1	ND		mg/L		NC	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-260163/12 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			10/28/17 13:31	1

Lab Sample ID: LCS 580-260163/13 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260163

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			1.00	0.977		mg/L		98	90 - 110		

Lab Sample ID: LCSD 580-260163/14 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260163

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N			1.00	0.975		mg/L		98	90 - 110	0	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 580-72413-5 MS
Matrix: Water
Analysis Batch: 260163

Client Sample ID: 1017-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	0.500	0.432	F1	mg/L		86	90 - 110

Lab Sample ID: 580-72413-5 MSD
Matrix: Water
Analysis Batch: 260163

Client Sample ID: 1017-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.427	F1	mg/L		85	90 - 110	1	20

Lab Sample ID: 580-72413-18 MS
Matrix: Water
Analysis Batch: 260163

Client Sample ID: 1017-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	0.500	0.447	F1	mg/L		89	90 - 110

Lab Sample ID: 580-72413-18 MSD
Matrix: Water
Analysis Batch: 260163

Client Sample ID: 1017-27
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	0.500	0.433	F1	mg/L		87	90 - 110	3	20

Lab Sample ID: 580-72413-5 DU
Matrix: Water
Analysis Batch: 260163

Client Sample ID: 1017-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-260167/2
Matrix: Water
Analysis Batch: 260167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	93.7		mg/L		94	85 - 115

Lab Sample ID: 580-72413-10 DU
Matrix: Water
Analysis Batch: 260178

Client Sample ID: 1017-29
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	360		367		mg/L		0.9	17
Bicarbonate Alkalinity as CaCO3	360		367		mg/L		0.9	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-260025/1
Matrix: Water
Analysis Batch: 260025

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	35.0		10		mg/L			10/27/17 11:25	1

Lab Sample ID: LCS 580-260025/2
Matrix: Water
Analysis Batch: 260025

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1110		mg/L		111	80 - 120		

Lab Sample ID: 580-72413-1 DU
Matrix: Water
Analysis Batch: 260025

Client Sample ID: 1017-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	440	B		485		mg/L				11	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-260596/3-A
Matrix: Water
Analysis Batch: 260597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260596

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Lab Sample ID: LCS 580-260596/4-A
Matrix: Water
Analysis Batch: 260597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260596

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			75.0	76.0		mg/L		101	80 - 120		

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-260894/22
Matrix: Water
Analysis Batch: 260894

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/07/17 18:26	1

Lab Sample ID: MB 580-260894/3
Matrix: Water
Analysis Batch: 260894

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/07/17 18:26	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 580-260894/23
Matrix: Water
Analysis Batch: 260894

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.12		mg/L		91	85 - 115

Lab Sample ID: LCS 580-260894/4
Matrix: Water
Analysis Batch: 260894

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.80		mg/L		98	85 - 115

Lab Sample ID: 580-72413-1 MS
Matrix: Water
Analysis Batch: 260894

Client Sample ID: 1017-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.5		10.0	11.5		mg/L		100	85 - 115

Lab Sample ID: 580-72413-1 MSD
Matrix: Water
Analysis Batch: 260894

Client Sample ID: 1017-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.5		10.0	11.4		mg/L		99	85 - 115	1	20

Lab Sample ID: 580-72413-17 MS
Matrix: Water
Analysis Batch: 260894

Client Sample ID: 1017-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.0		10.0	10.6		mg/L		86	85 - 115

Lab Sample ID: 580-72413-17 MSD
Matrix: Water
Analysis Batch: 260894

Client Sample ID: 1017-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.0		10.0	10.9		mg/L		89	85 - 115	2	20

Lab Sample ID: 580-72413-1 DU
Matrix: Water
Analysis Batch: 260894

Client Sample ID: 1017-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	1.5		1.51		mg/L		0.7	20

Lab Sample ID: 580-72413-17 DU
Matrix: Water
Analysis Batch: 260894

Client Sample ID: 1017-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.0		1.94		mg/L		0.5	20

Client Sample ID: 1017-02
Date Collected: 10/24/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 18:49	IWH	TAL SEA
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 17:45	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 12:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 13:35	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 14:06	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-100
Date Collected: 10/24/17 10:27
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 19:15	IWH	TAL SEA

Client Sample ID: 1017-97
Date Collected: 10/24/17 11:12
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 19:42	IWH	TAL SEA

Client Sample ID: 1017-99
Date Collected: 10/24/17 12:14
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 20:08	IWH	TAL SEA

Client Sample ID: 1017-14
Date Collected: 10/24/17 13:05
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 20:34	IWH	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 18:17	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 12:49	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 14:11	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:34	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-24

Lab Sample ID: 580-72413-6

Date Collected: 10/24/17 13:50

Matrix: Water

Date Received: 10/26/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 21:01	IWH	TAL SEA
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 18:21	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:22	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 14:22	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:39	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-01

Lab Sample ID: 580-72413-7

Date Collected: 10/24/17 14:30

Matrix: Water

Date Received: 10/26/17 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 21:28	IWH	TAL SEA
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 18:24	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:25	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 14:34	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-01

Date Collected: 10/24/17 14:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:40	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:45	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-26

Date Collected: 10/24/17 15:28
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 21:54	IWH	TAL SEA
Total/NA	Prep	8151A			260233	10/30/17 11:21	NDB	TAL SEA
Total/NA	Analysis	8151A		1	260693	11/03/17 21:22	ERB	TAL SEA
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 18:27	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:28	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 15:09	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		20	260163	10/28/17 13:41	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:45	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-30

Date Collected: 10/24/17 16:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 22:20	IWH	TAL SEA
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 18:31	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:31	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 15:21	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-30

Date Collected: 10/24/17 16:30
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:45	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260167	10/28/17 15:45	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-29

Date Collected: 10/24/17 17:33
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 22:47	IWH	TAL SEA
Dissolved	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Dissolved	Analysis	6010C		1	260203	10/27/17 18:34	SPP	TAL SEA
Total Recoverable	Prep	3005A			260026	10/27/17 11:26	PAB	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:34	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 15:32	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		2	260163	10/28/17 13:46	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260178	10/28/17 18:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-08

Date Collected: 10/25/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 23:13	IWH	TAL SEA
Dissolved	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260340	10/31/17 11:10	SPP	TAL SEA
Dissolved	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260340	10/31/17 11:38	SPP	TAL SEA
Total Recoverable	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 14:14	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 15:44	MMM	TAL SEA
Total/NA	Analysis	300.0		5	260242	10/28/17 18:16	MMM	TAL SEA

Client Sample ID: 1017-08

Date Collected: 10/25/17 09:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:47	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260178	10/28/17 18:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-09

Date Collected: 10/25/17 11:23
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 23:40	IWH	TAL SEA
Dissolved	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260340	10/31/17 11:42	SPP	TAL SEA
Total Recoverable	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:37	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 15:56	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:48	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260178	10/28/17 18:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-12

Date Collected: 10/25/17 12:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/30/17 00:06	IWH	TAL SEA
Dissolved	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260340	10/31/17 11:45	SPP	TAL SEA
Total Recoverable	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:40	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 16:08	MMM	TAL SEA
Total/NA	Analysis	300.0		5	260242	10/28/17 18:28	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-12
Date Collected: 10/25/17 12:55
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		50	260163	10/28/17 13:50	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260178	10/28/17 18:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-95
Date Collected: 10/25/17 14:15
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/30/17 00:33	IWH	TAL SEA

Client Sample ID: 1017-98
Date Collected: 10/25/17 15:05
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/30/17 00:59	IWH	TAL SEA

Client Sample ID: 1017-96
Date Collected: 10/25/17 15:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/30/17 01:26	IWH	TAL SEA

Client Sample ID: 1017-28
Date Collected: 10/25/17 16:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/30/17 01:52	IWH	TAL SEA
Dissolved	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260340	10/31/17 11:48	SPP	TAL SEA
Total Recoverable	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:43	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 16:43	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Client Sample ID: 1017-28

Date Collected: 10/25/17 16:50
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	260163	10/28/17 13:51	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260178	10/28/17 18:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: 1017-27

Date Collected: 10/25/17 17:38
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/30/17 02:18	IWH	TAL SEA
Dissolved	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260340	10/31/17 11:52	SPP	TAL SEA
Total Recoverable	Prep	3005A			260074	10/27/17 13:33	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260202	10/29/17 13:46	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260242	10/28/17 16:54	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260163	10/28/17 13:52	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260178	10/28/17 18:44	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260025	10/27/17 11:25	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260894	11/07/17 18:26	J1Y	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 10/25/17 00:01
Date Received: 10/26/17 14:45

Lab Sample ID: 580-72413-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260221	10/29/17 18:22	IWH	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72413-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-72413-1	1017-02	Water	10/24/17 09:55	10/26/17 14:45
580-72413-2	1017-100	Water	10/24/17 10:27	10/26/17 14:45
580-72413-3	1017-97	Water	10/24/17 11:12	10/26/17 14:45
580-72413-4	1017-99	Water	10/24/17 12:14	10/26/17 14:45
580-72413-5	1017-14	Water	10/24/17 13:05	10/26/17 14:45
580-72413-6	1017-24	Water	10/24/17 13:50	10/26/17 14:45
580-72413-7	1017-01	Water	10/24/17 14:30	10/26/17 14:45
580-72413-8	1017-26	Water	10/24/17 15:28	10/26/17 14:45
580-72413-9	1017-30	Water	10/24/17 16:30	10/26/17 14:45
580-72413-10	1017-29	Water	10/24/17 17:33	10/26/17 14:45
580-72413-11	1017-08	Water	10/25/17 09:55	10/26/17 14:45
580-72413-12	1017-09	Water	10/25/17 11:23	10/26/17 14:45
580-72413-13	1017-12	Water	10/25/17 12:55	10/26/17 14:45
580-72413-14	1017-95	Water	10/25/17 14:15	10/26/17 14:45
580-72413-15	1017-98	Water	10/25/17 15:05	10/26/17 14:45
580-72413-16	1017-96	Water	10/25/17 15:50	10/26/17 14:45
580-72413-17	1017-28	Water	10/25/17 16:50	10/26/17 14:45
580-72413-18	1017-27	Water	10/25/17 17:38	10/26/17 14:45
580-72413-19	Trip Blank	Water	10/25/17 00:01	10/26/17 14:45

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Mr. Sam Graber
Company: SCS Engineers
Address: 2405 140th Avenue NE Suite 107
City: Bellevue
State, Zip: WA, 98005-1877
Phone: 425-289-5455(Tel)
Email: SGraber@scsengineers.com
Project Name: Coupeville Solid Waste Facility Groundwa
Site:

Sampler: Sam G. + A.O.
Phone: 612 440 2980
Due Date Requested: standard
TAT Requested (days):
PO #: Purchase Order not required
WO #:
Project #: 58009563
SSOW#:

Lab PM: Gamble, Cathy L
E-Mail: cathy.gamble@testamericainc.com
Carrier Tracking No(s): X

COC No: 580-26267-8656.6
Page: Page ~~6 of 7~~ 1 of 2
Job #: 04207033.10

Analysis Requested

Loc: 580
72413

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D	6020A_LL - Total Metals	6010C - Diss Metals	350.1, 353.2, 5220D	SM5310_TOC_B - TOC	2540C - TDS	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reportin	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	N	A	N		
1017-02	10/24/17	955	G	Water	Y	N	X	X	X	X	X	X	X		9	
1017-100		1027		Water	N								X		3	
1017-97		1112		Water	N								X		3	
1017-99		1214		Water	N								X		3	
1017-14		1305		Water	Y		X	X	X	X	X	X	X		9	
1017-24		1350		Water			X	X	X	X	X	X	X		9	
1017-01		1430		Water			X	X	X	X	X	X	X		~~9~~ 9	
1017-26		1528		Water			X	X	X	X	X	X	X	X	11	
1017-30		1630		Water			X	X	X	X	X	X	X		9	
1017-29		1733		Water			X	X	X	X	X	X	X		9	
1017-08	10/25/17	955		Water			X	X	X	X	X	X	X		9	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	10/26/17 900	SCS		10/26/17 1005	TA-CLE
Relinquished by:					
Relinquished by:					

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

580-72413 Chain of Custody

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam G.	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-26267-8656.5
Client Contact: Mr. Sam Graber	Phone: 617 440 2480	E-Mail: cathy.gamble@testamericainc.com		Page: ~~Page 5 of 7~~ Page 2 of 2
Company: SCS Engineers				Job #: 04207033.10
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877				
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0, 28D	6020A_LL - Total Metals	6010C - Diss Metals	350.1, 353.2, 5220D	SM5310_TOC_B - TOC	2540C - TDS	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	N	A	N		
1017-09	10/25/17	1123	6	Water	Y	N	X	X	X	X	X	X	X		9	
1017-12		1255		Water	Y		X	X	X	X	X	X	X		9	
1017-95		1415		Water	N								X		3	
1017-98		1505		Water	N								X		3	
1017-96		1550		Water	N								X		3	
1017-28		1650		Water	Y		X	X	X	X	X	X	X		9	
1017-27		1738		Water	Y		X	X	X	X	X	X	X		9	
				Water												
				Water												
				Water												
				Water												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/26/17 900	SCS		10/26/17 1145	TALEH
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Therm. ID AZ Cor 3.8 Unc 4.5
Cooler Dsc Lg Red @Lab —
Wet/Packs Packing Bubble
Custody Seal: Yes ___ No X

Therm. ID AZ Cor 3.0 Unc 3.7
Cooler Dsc Lg Blue @Lab —
Wet/Packs Packing Bubble
Custody Seal: Yes ___ No X

Therm. ID AZ Cor 4.8 Unc 5.5
Cooler Dsc Lg brown @Lab —
Wet/Packs Packing Bubble
Custody Seal: Yes ___ No X

Therm. ID AZ Cor 5.9 Unc 6.6
Cooler Dsc Lg Blue @Lab —
Wet/Packs Packing Bubble
Custody Seal: Yes ___ No X

Therm. ID AZ Cor 5.0 Unc 5.7
Cooler Dsc Lg Blue @Lab —
Wet/Packs Packing Bubble
Custody Seal: Yes ___ No X

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-72413-1

Login Number: 72413
List Number: 1
Creator: Hobbs, Kenneth F

List Source: TestAmerica Seattle

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-72457-1
Client Project/Site: Coupeville Solid Waste Facility GW

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Dan Venchiarutti

Authorized for release by:
11/10/2017 3:17:28 PM

Cathy Gamble, Project Manager I
(253)922-2310
cathy.gamble@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

Table of Contents

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Job ID: 580-72457-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 10/27/2017 11:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 5.6º C.

Receipt Exceptions
The COC states 6 trip blanks were received but we actually received 9 trip blanks.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-260470 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 1017-18 (580-72457-1), 1017-17 (580-72457-2), 1017-19 (580-72457-3), 1017-31 (580-72457-4), 1017-25 (580-72457-5), 1017-05 (580-72457-6), Trip Blank (580-72457-7) and (CCVIS 580-260470/3).

Method(s) 8260C: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-260470 was outside criteria for the following analyte(s): 2-Butanone. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

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

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

General Chemistry

Method(s) 300.0: Standard 3 misinjected during the ICAL. The initial calibration curve still had enough points on the curve to be inside acceptance criteria; therefore, that data have been reported.

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

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-18
Date Collected: 10/26/17 09:35
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 20:08	1
1,1,1-Trichloroethane	**0.59**		0.20		ug/L			11/01/17 20:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 20:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 20:08	1
1,1-Dichloroethane	**0.58**		0.20		ug/L			11/01/17 20:08	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 20:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 20:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 20:08	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 20:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 20:08	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 20:08	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 20:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 20:08	1
2-Butanone	ND		15		ug/L			11/01/17 20:08	1
2-Hexanone	ND		2.0		ug/L			11/01/17 20:08	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 20:08	1
Acetone	ND		2.0		ug/L			11/01/17 20:08	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 20:08	1
Benzene	ND		0.20		ug/L			11/01/17 20:08	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 20:08	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 20:08	1
Bromoform	ND		0.50		ug/L			11/01/17 20:08	1
Bromomethane	ND		1.0		ug/L			11/01/17 20:08	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 20:08	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 20:08	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 20:08	1
Chloroethane	ND		0.50		ug/L			11/01/17 20:08	1
Chloroform	ND		0.20		ug/L			11/01/17 20:08	1
Chloromethane	ND		0.30		ug/L			11/01/17 20:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 20:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 20:08	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 20:08	1
Dibromomethane	ND		0.20		ug/L			11/01/17 20:08	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 20:08	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 20:08	1
Methyl iodide	ND		0.50		ug/L			11/01/17 20:08	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 20:08	1
o-Xylene	ND		0.50		ug/L			11/01/17 20:08	1
Styrene	ND		0.50		ug/L			11/01/17 20:08	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 20:08	1
Toluene	ND		0.20		ug/L			11/01/17 20:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 20:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 20:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 20:08	1
Trichloroethene	ND		0.20		ug/L			11/01/17 20:08	1
Trichlorofluoromethane	**3.5**		0.50		ug/L			11/01/17 20:08	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 20:08	1
Vinyl chloride	**0.21**		0.020		ug/L			11/01/17 20:08	1

Client Sample ID: 1017-18
Date Collected: 10/26/17 09:35
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*46 - 150*		*11/01/17 20:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/01/17 20:08*	*1*
Dibromofluoromethane (Surr)	*99*		*42 - 132*		*11/01/17 20:08*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*11/01/17 20:08*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*11/01/17 20:08*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		10/30/17 12:52	11/01/17 09:49	1
Calcium	**170**		1.1		mg/L		10/30/17 12:52	11/01/17 10:17	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 09:49	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 10:17	1
Magnesium	**93**		1.1		mg/L		10/30/17 12:52	11/01/17 09:49	1
Magnesium	**91**		1.1		mg/L		10/30/17 12:52	11/01/17 10:17	1
Manganese	ND		0.020		mg/L		10/30/17 12:52	11/01/17 09:49	1
Manganese	ND		0.020		mg/L		10/30/17 12:52	11/01/17 10:17	1
Potassium	**10**		3.3		mg/L		10/30/17 12:52	11/01/17 09:49	1
Potassium	**10**		3.3		mg/L		10/30/17 12:52	11/01/17 10:17	1
Sodium	**33**		2.0		mg/L		10/30/17 12:52	11/01/17 09:49	1
Sodium	**32**		2.0		mg/L		10/30/17 12:52	11/01/17 10:17	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Arsenic	**0.0011**		0.0010		mg/L		10/30/17 12:52	10/31/17 14:24	1
Barium	**0.053**		0.0012		mg/L		10/30/17 12:52	10/31/17 14:24	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Chromium	**0.00047**		0.00040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Cobalt	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 14:24	1
Lead	ND		0.00080		mg/L		10/30/17 12:52	10/31/17 14:24	1
Nickel	**0.0047**		0.0030		mg/L		10/30/17 12:52	10/31/17 14:24	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 14:24	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:24	1
Vanadium	**0.0043**		0.0040		mg/L		10/30/17 12:52	10/31/17 14:24	1
Zinc	ND		0.0070		mg/L		10/30/17 12:52	10/31/17 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 15:21	1
Chloride	**22**		0.90		mg/L			10/31/17 15:21	1
Sulfate	**110**		6.0		mg/L			10/31/17 19:08	5
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**5.6**		3.0		mg/L			11/07/17 15:58	20
Total Organic Carbon	**2.3**	**F1**	1.0		mg/L			11/08/17 18:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**680**		5.0		mg/L			11/04/17 17:47	1
Bicarbonate Alkalinity as CaCO3	**680**		5.0		mg/L			11/04/17 17:47	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-18
Date Collected: 10/26/17 09:35
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Total Dissolved Solids	**910**		10		mg/L			11/01/17 10:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: 1017-17
Date Collected: 10/26/17 10:47
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 20:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/01/17 20:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 20:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 20:34	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 20:34	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 20:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 20:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 20:34	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 20:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 20:34	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 20:34	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 20:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 20:34	1
2-Butanone	ND		15		ug/L			11/01/17 20:34	1
2-Hexanone	ND		2.0		ug/L			11/01/17 20:34	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 20:34	1
Acetone	ND		2.0		ug/L			11/01/17 20:34	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 20:34	1
Benzene	ND		0.20		ug/L			11/01/17 20:34	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 20:34	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 20:34	1
Bromoform	ND		0.50		ug/L			11/01/17 20:34	1
Bromomethane	ND		1.0		ug/L			11/01/17 20:34	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 20:34	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 20:34	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 20:34	1
Chloroethane	ND		0.50		ug/L			11/01/17 20:34	1
Chloroform	ND		0.20		ug/L			11/01/17 20:34	1
Chloromethane	ND		0.30		ug/L			11/01/17 20:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 20:34	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 20:34	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 20:34	1
Dibromomethane	ND		0.20		ug/L			11/01/17 20:34	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 20:34	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 20:34	1
Methyl iodide	ND		0.50		ug/L			11/01/17 20:34	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 20:34	1
o-Xylene	ND		0.50		ug/L			11/01/17 20:34	1
Styrene	ND		0.50		ug/L			11/01/17 20:34	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 20:34	1
Toluene	ND		0.20		ug/L			11/01/17 20:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 20:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 20:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 20:34	1
Trichloroethene	ND		0.20		ug/L			11/01/17 20:34	1
Trichlorofluoromethane	**0.52**		0.50		ug/L			11/01/17 20:34	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 20:34	1
Vinyl chloride	ND		0.020		ug/L			11/01/17 20:34	1

Client Sample ID: 1017-17
Date Collected: 10/26/17 10:47
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*46 - 150*		*11/01/17 20:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/01/17 20:34*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*11/01/17 20:34*	*1*
Toluene-d8 (Surr)	*101*		*75 - 125*		*11/01/17 20:34*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/01/17 20:34*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		1.1		mg/L		10/30/17 12:52	11/01/17 10:21	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 10:21	1
Magnesium	**76**		1.1		mg/L		10/30/17 12:52	11/01/17 10:21	1
Manganese	ND		0.020		mg/L		10/30/17 12:52	11/01/17 10:21	1
Potassium	**9.0**		3.3		mg/L		10/30/17 12:52	11/01/17 10:21	1
Sodium	**43**		2.0		mg/L		10/30/17 12:52	11/01/17 10:21	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Arsenic	**0.0031**		0.0010		mg/L		10/30/17 12:52	10/31/17 14:21	1
Barium	**0.027**		0.0012		mg/L		10/30/17 12:52	10/31/17 14:21	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Chromium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Cobalt	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 14:21	1
Lead	ND		0.00080		mg/L		10/30/17 12:52	10/31/17 14:21	1
Nickel	**0.0047**		0.0030		mg/L		10/30/17 12:52	10/31/17 14:21	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 14:21	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:21	1
Vanadium	ND		0.0040		mg/L		10/30/17 12:52	10/31/17 14:21	1
Zinc	ND		0.0070		mg/L		10/30/17 12:52	10/31/17 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 15:56	1
Chloride	**67**		0.90		mg/L			10/31/17 15:56	1
Sulfate	**68**		1.2		mg/L			10/31/17 15:56	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**3.1**		0.75		mg/L			11/07/17 15:59	5
Total Organic Carbon	**2.3**		1.0		mg/L			11/08/17 18:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**470**		5.0		mg/L			11/04/17 17:47	1
Bicarbonate Alkalinity as CaCO3	**470**		5.0		mg/L			11/04/17 17:47	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Total Dissolved Solids	**710**		10		mg/L			11/01/17 10:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-19
Date Collected: 10/26/17 12:00
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 21:01	1
1,1,1-Trichloroethane	**0.48**		0.20		ug/L			11/01/17 21:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 21:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 21:01	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 21:01	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 21:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 21:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 21:01	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 21:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 21:01	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 21:01	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 21:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 21:01	1
2-Butanone	ND		15		ug/L			11/01/17 21:01	1
2-Hexanone	ND		2.0		ug/L			11/01/17 21:01	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 21:01	1
Acetone	ND		2.0		ug/L			11/01/17 21:01	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 21:01	1
Benzene	ND		0.20		ug/L			11/01/17 21:01	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 21:01	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 21:01	1
Bromoform	ND		0.50		ug/L			11/01/17 21:01	1
Bromomethane	ND		1.0		ug/L			11/01/17 21:01	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 21:01	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 21:01	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 21:01	1
Chloroethane	ND		0.50		ug/L			11/01/17 21:01	1
Chloroform	ND		0.20		ug/L			11/01/17 21:01	1
Chloromethane	ND		0.30		ug/L			11/01/17 21:01	1
cis-1,2-Dichloroethene	**0.28**		0.20		ug/L			11/01/17 21:01	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 21:01	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 21:01	1
Dibromomethane	ND		0.20		ug/L			11/01/17 21:01	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 21:01	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 21:01	1
Methyl iodide	ND		0.50		ug/L			11/01/17 21:01	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 21:01	1
o-Xylene	ND		0.50		ug/L			11/01/17 21:01	1
Styrene	ND		0.50		ug/L			11/01/17 21:01	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 21:01	1
Toluene	ND		0.20		ug/L			11/01/17 21:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 21:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 21:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 21:01	1
Trichloroethene	**0.23**		0.20		ug/L			11/01/17 21:01	1
Trichlorofluoromethane	**5.0**		0.50		ug/L			11/01/17 21:01	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 21:01	1
Vinyl chloride	ND		0.020		ug/L			11/01/17 21:01	1

Client Sample ID: 1017-19
Date Collected: 10/26/17 12:00
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*		*11/01/17 21:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*81 - 120*		*11/01/17 21:01*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/01/17 21:01*	*1*
Toluene-d8 (Surr)	*102*		*75 - 125*		*11/01/17 21:01*	*1*
Trifluorotoluene (Surr)	*101*		*74 - 118*		*11/01/17 21:01*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		10/30/17 12:52	11/01/17 10:24	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 10:24	1
Magnesium	**47**		1.1		mg/L		10/30/17 12:52	11/01/17 10:24	1
Manganese	ND		0.020		mg/L		10/30/17 12:52	11/01/17 10:24	1
Potassium	**5.3**		3.3		mg/L		10/30/17 12:52	11/01/17 10:24	1
Sodium	**23**		2.0		mg/L		10/30/17 12:52	11/01/17 10:24	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Arsenic	**0.0011**		0.0010		mg/L		10/30/17 12:52	10/31/17 14:52	1
Barium	**0.033**		0.0012		mg/L		10/30/17 12:52	10/31/17 14:52	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Chromium	**0.0086**		0.00040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Cobalt	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 14:52	1
Lead	ND		0.00080		mg/L		10/30/17 12:52	10/31/17 14:52	1
Nickel	**0.0057**		0.0030		mg/L		10/30/17 12:52	10/31/17 14:52	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 14:52	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:52	1
Vanadium	ND		0.0040		mg/L		10/30/17 12:52	10/31/17 14:52	1
Zinc	ND		0.0070		mg/L		10/30/17 12:52	10/31/17 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 16:08	1
Chloride	**3.2**		0.90		mg/L			10/31/17 16:08	1
Sulfate	**150**		6.0		mg/L			10/31/17 19:20	5
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**3.1**		0.75		mg/L			11/07/17 16:02	5
Total Organic Carbon	**5.9**		1.0		mg/L			11/08/17 18:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		5.0		mg/L			11/04/17 17:47	1
Bicarbonate Alkalinity as CaCO3	**360**		5.0		mg/L			11/04/17 17:47	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Total Dissolved Solids	**620**		10		mg/L			11/01/17 10:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: 1017-31
Date Collected: 10/26/17 12:10
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 21:27	1
1,1,1-Trichloroethane	**0.50**		0.20		ug/L			11/01/17 21:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 21:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 21:27	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 21:27	1
1,1-Dichloroethene	**0.10**		0.10		ug/L			11/01/17 21:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 21:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 21:27	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 21:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 21:27	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 21:27	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 21:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 21:27	1
2-Butanone	ND		15		ug/L			11/01/17 21:27	1
2-Hexanone	ND		2.0		ug/L			11/01/17 21:27	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 21:27	1
Acetone	ND		2.0		ug/L			11/01/17 21:27	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 21:27	1
Benzene	ND		0.20		ug/L			11/01/17 21:27	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 21:27	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 21:27	1
Bromoform	ND		0.50		ug/L			11/01/17 21:27	1
Bromomethane	ND		1.0		ug/L			11/01/17 21:27	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 21:27	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 21:27	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 21:27	1
Chloroethane	ND		0.50		ug/L			11/01/17 21:27	1
Chloroform	ND		0.20		ug/L			11/01/17 21:27	1
Chloromethane	ND		0.30		ug/L			11/01/17 21:27	1
cis-1,2-Dichloroethene	**0.29**		0.20		ug/L			11/01/17 21:27	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 21:27	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 21:27	1
Dibromomethane	ND		0.20		ug/L			11/01/17 21:27	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 21:27	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 21:27	1
Methyl iodide	ND		0.50		ug/L			11/01/17 21:27	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 21:27	1
o-Xylene	ND		0.50		ug/L			11/01/17 21:27	1
Styrene	ND		0.50		ug/L			11/01/17 21:27	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 21:27	1
Toluene	ND		0.20		ug/L			11/01/17 21:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 21:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 21:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 21:27	1
Trichloroethene	**0.21**		0.20		ug/L			11/01/17 21:27	1
Trichlorofluoromethane	**4.9**		0.50		ug/L			11/01/17 21:27	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 21:27	1
Vinyl chloride	ND		0.020		ug/L			11/01/17 21:27	1

Client Sample ID: 1017-31
Date Collected: 10/26/17 12:10
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*11/01/17 21:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/01/17 21:27*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/01/17 21:27*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*11/01/17 21:27*	*1*
Trifluorotoluene (Surr)	*104*		*74 - 118*		*11/01/17 21:27*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		1.1		mg/L		10/30/17 12:52	11/01/17 10:27	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 10:27	1
Magnesium	**48**		1.1		mg/L		10/30/17 12:52	11/01/17 10:27	1
Manganese	ND		0.020		mg/L		10/30/17 12:52	11/01/17 10:27	1
Potassium	**5.4**		3.3		mg/L		10/30/17 12:52	11/01/17 10:27	1
Sodium	**24**		2.0		mg/L		10/30/17 12:52	11/01/17 10:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Arsenic	**0.0010**		0.0010		mg/L		10/30/17 12:52	10/31/17 14:55	1
Barium	**0.033**		0.0012		mg/L		10/30/17 12:52	10/31/17 14:55	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Chromium	**0.0086**		0.00040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Cobalt	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 14:55	1
Lead	ND		0.00080		mg/L		10/30/17 12:52	10/31/17 14:55	1
Nickel	**0.0058**		0.0030		mg/L		10/30/17 12:52	10/31/17 14:55	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 14:55	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:55	1
Vanadium	ND		0.0040		mg/L		10/30/17 12:52	10/31/17 14:55	1
Zinc	ND		0.0070		mg/L		10/30/17 12:52	10/31/17 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 16:20	1
Chloride	**3.2**		0.90		mg/L			10/31/17 16:20	1
Sulfate	**150**		6.0		mg/L			10/31/17 19:32	5
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	**3.1**		0.75		mg/L			11/07/17 16:03	5
Total Organic Carbon	**5.8**		1.0		mg/L			11/08/17 18:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**370**		5.0		mg/L			11/04/17 17:47	1
Bicarbonate Alkalinity as CaCO3	**370**		5.0		mg/L			11/04/17 17:47	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Total Dissolved Solids	**640**		10		mg/L			11/01/17 10:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-25
Date Collected: 10/26/17 13:20
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 21:54	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/01/17 21:54	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 21:54	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 21:54	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 21:54	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 21:54	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 21:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 21:54	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 21:54	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 21:54	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 21:54	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 21:54	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 21:54	1
2-Butanone	ND		15		ug/L			11/01/17 21:54	1
2-Hexanone	ND		2.0		ug/L			11/01/17 21:54	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 21:54	1
Acetone	ND		2.0		ug/L			11/01/17 21:54	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 21:54	1
Benzene	ND		0.20		ug/L			11/01/17 21:54	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 21:54	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 21:54	1
Bromoform	ND		0.50		ug/L			11/01/17 21:54	1
Bromomethane	ND		1.0		ug/L			11/01/17 21:54	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 21:54	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 21:54	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 21:54	1
Chloroethane	ND		0.50		ug/L			11/01/17 21:54	1
Chloroform	ND		0.20		ug/L			11/01/17 21:54	1
Chloromethane	ND		0.30		ug/L			11/01/17 21:54	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 21:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 21:54	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 21:54	1
Dibromomethane	ND		0.20		ug/L			11/01/17 21:54	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 21:54	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 21:54	1
Methyl iodide	ND		0.50		ug/L			11/01/17 21:54	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 21:54	1
o-Xylene	ND		0.50		ug/L			11/01/17 21:54	1
Styrene	ND		0.50		ug/L			11/01/17 21:54	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 21:54	1
Toluene	ND		0.20		ug/L			11/01/17 21:54	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 21:54	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 21:54	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 21:54	1
Trichloroethene	ND		0.20		ug/L			11/01/17 21:54	1
Trichlorofluoromethane	ND		0.50		ug/L			11/01/17 21:54	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 21:54	1
Vinyl chloride	**0.26**		0.020		ug/L			11/01/17 21:54	1

Client Sample ID: 1017-25
Date Collected: 10/26/17 13:20
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-5
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*46 - 150*		*11/01/17 21:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/01/17 21:54*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/01/17 21:54*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*11/01/17 21:54*	*1*
Trifluorotoluene (Surr)	*105*		*74 - 118*		*11/01/17 21:54*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**180**		1.1		mg/L		10/30/17 12:52	11/01/17 10:31	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 10:31	1
Magnesium	**120**		1.1		mg/L		10/30/17 12:52	11/01/17 10:31	1
Manganese	**0.049**		0.020		mg/L		10/30/17 12:52	11/01/17 10:31	1
Potassium	**9.8**		3.3		mg/L		10/30/17 12:52	11/01/17 10:31	1
Sodium	**49**		2.0		mg/L		10/30/17 12:52	11/01/17 10:31	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Arsenic	**0.0045**		0.0010		mg/L		10/30/17 12:52	10/31/17 14:59	1
Barium	**0.046**		0.0012		mg/L		10/30/17 12:52	10/31/17 14:59	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Chromium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Cobalt	**0.00079**		0.00040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 14:59	1
Lead	ND		0.00080		mg/L		10/30/17 12:52	10/31/17 14:59	1
Nickel	**0.0061**		0.0030		mg/L		10/30/17 12:52	10/31/17 14:59	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 14:59	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:59	1
Vanadium	**0.0065**		0.0040		mg/L		10/30/17 12:52	10/31/17 14:59	1
Zinc	ND		0.0070		mg/L		10/30/17 12:52	10/31/17 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 16:31	1
Chloride	**70**		0.90		mg/L			10/31/17 16:31	1
Sulfate	**72**		1.2		mg/L			10/31/17 16:31	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND		0.15		mg/L			11/07/17 16:05	1
Total Organic Carbon	**2.2**		1.0		mg/L			11/08/17 18:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**830**		5.0		mg/L			11/04/17 17:47	1
Bicarbonate Alkalinity as CaCO3	**830**		5.0		mg/L			11/04/17 17:47	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Total Dissolved Solids	**990**		20		mg/L			11/01/17 10:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: 1017-05
Date Collected: 10/26/17 14:45
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 22:20	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/01/17 22:20	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 22:20	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 22:20	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 22:20	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 22:20	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 22:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 22:20	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 22:20	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 22:20	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 22:20	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 22:20	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 22:20	1
2-Butanone	ND		15		ug/L			11/01/17 22:20	1
2-Hexanone	ND		2.0		ug/L			11/01/17 22:20	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 22:20	1
Acetone	ND		2.0		ug/L			11/01/17 22:20	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 22:20	1
Benzene	ND		0.20		ug/L			11/01/17 22:20	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 22:20	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 22:20	1
Bromoform	ND		0.50		ug/L			11/01/17 22:20	1
Bromomethane	ND		1.0		ug/L			11/01/17 22:20	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 22:20	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 22:20	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 22:20	1
Chloroethane	ND		0.50		ug/L			11/01/17 22:20	1
Chloroform	ND		0.20		ug/L			11/01/17 22:20	1
Chloromethane	ND		0.30		ug/L			11/01/17 22:20	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 22:20	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 22:20	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 22:20	1
Dibromomethane	ND		0.20		ug/L			11/01/17 22:20	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 22:20	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 22:20	1
Methyl iodide	ND		0.50		ug/L			11/01/17 22:20	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 22:20	1
o-Xylene	ND		0.50		ug/L			11/01/17 22:20	1
Styrene	ND		0.50		ug/L			11/01/17 22:20	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 22:20	1
Toluene	ND		0.20		ug/L			11/01/17 22:20	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 22:20	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 22:20	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 22:20	1
Trichloroethene	ND		0.20		ug/L			11/01/17 22:20	1
Trichlorofluoromethane	ND		0.50		ug/L			11/01/17 22:20	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 22:20	1
Vinyl chloride	ND		0.020		ug/L			11/01/17 22:20	1

Client Sample ID: 1017-05
Date Collected: 10/26/17 14:45
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*11/01/17 22:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/01/17 22:20*	*1*
Dibromofluoromethane (Surr)	*101*		*42 - 132*		*11/01/17 22:20*	*1*
Toluene-d8 (Surr)	*104*		*75 - 125*		*11/01/17 22:20*	*1*
Trifluorotoluene (Surr)	*105*		*74 - 118*		*11/01/17 22:20*	*1*

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**46**		1.1		mg/L		10/30/17 12:52	11/01/17 10:34	1
Iron	**0.34**		0.30		mg/L		10/30/17 12:52	11/01/17 10:34	1
Magnesium	**35**		1.1		mg/L		10/30/17 12:52	11/01/17 10:34	1
Manganese	**0.087**		0.020		mg/L		10/30/17 12:52	11/01/17 10:34	1
Potassium	**11**		3.3		mg/L		10/30/17 12:52	11/01/17 10:34	1
Sodium	**24**		2.0		mg/L		10/30/17 12:52	11/01/17 10:34	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Arsenic	**0.025**		0.0010		mg/L		10/30/17 12:52	10/31/17 15:02	1
Barium	**0.025**		0.0012		mg/L		10/30/17 12:52	10/31/17 15:02	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Chromium	**0.00049**		0.00040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Cobalt	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 15:02	1
Lead	**0.00093**		0.00080		mg/L		10/30/17 12:52	10/31/17 15:02	1
Nickel	ND		0.0030		mg/L		10/30/17 12:52	10/31/17 15:02	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 15:02	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 15:02	1
Vanadium	ND		0.0040		mg/L		10/30/17 12:52	10/31/17 15:02	1
Zinc	**0.92**		0.0070		mg/L		10/30/17 12:52	10/31/17 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 16:43	1
Chloride	**33**		0.90		mg/L			10/31/17 16:43	1
Sulfate	**14**		1.2		mg/L			10/31/17 16:43	1
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1
Nitrate Nitrite as N	ND		0.15		mg/L			11/07/17 16:06	1
Total Organic Carbon	**1.1**		1.0		mg/L			11/08/17 18:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**230**		5.0		mg/L			11/04/17 17:47	1
Bicarbonate Alkalinity as CaCO3	**230**		5.0		mg/L			11/04/17 17:47	1
Carbonate Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			11/04/17 17:47	1
Total Dissolved Solids	**320**		10		mg/L			11/01/17 10:31	1
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Client Sample ID: Trip Blank
Date Collected: 10/26/17 00:01
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 15:15	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/01/17 15:15	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 15:15	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 15:15	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 15:15	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 15:15	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 15:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 15:15	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 15:15	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 15:15	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 15:15	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 15:15	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 15:15	1
2-Butanone	ND		15		ug/L			11/01/17 15:15	1
2-Hexanone	ND		2.0		ug/L			11/01/17 15:15	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 15:15	1
Acetone	ND		2.0		ug/L			11/01/17 15:15	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 15:15	1
Benzene	ND		0.20		ug/L			11/01/17 15:15	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 15:15	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 15:15	1
Bromoform	ND		0.50		ug/L			11/01/17 15:15	1
Bromomethane	ND		1.0		ug/L			11/01/17 15:15	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 15:15	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 15:15	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 15:15	1
Chloroethane	ND		0.50		ug/L			11/01/17 15:15	1
Chloroform	ND		0.20		ug/L			11/01/17 15:15	1
Chloromethane	ND		0.30		ug/L			11/01/17 15:15	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 15:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 15:15	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 15:15	1
Dibromomethane	ND		0.20		ug/L			11/01/17 15:15	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 15:15	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 15:15	1
Methyl iodide	ND		0.50		ug/L			11/01/17 15:15	1
Methylene Chloride	**2.5**		0.50		ug/L			11/01/17 15:15	1
o-Xylene	ND		0.50		ug/L			11/01/17 15:15	1
Styrene	ND		0.50		ug/L			11/01/17 15:15	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 15:15	1
Toluene	ND		0.20		ug/L			11/01/17 15:15	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 15:15	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 15:15	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 15:15	1
Trichloroethene	ND		0.20		ug/L			11/01/17 15:15	1
Trichlorofluoromethane	ND		0.50		ug/L			11/01/17 15:15	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 15:15	1
Vinyl chloride	ND		0.020		ug/L			11/01/17 15:15	1

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: Trip Blank
Date Collected: 10/26/17 00:01
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		46 - 150		11/01/17 15:15	1
4-Bromofluorobenzene (Surr)	99		81 - 120		11/01/17 15:15	1
Dibromofluoromethane (Surr)	100		42 - 132		11/01/17 15:15	1
Toluene-d8 (Surr)	101		75 - 125		11/01/17 15:15	1
Trifluorotoluene (Surr)	101		74 - 118		11/01/17 15:15	1

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

Lab Sample ID: MB 580-260470/5
Matrix: Water
Analysis Batch: 260470

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 13:56	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/01/17 13:56	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/01/17 13:56	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/01/17 13:56	1
1,1-Dichloroethane	ND		0.20		ug/L			11/01/17 13:56	1
1,1-Dichloroethene	ND		0.10		ug/L			11/01/17 13:56	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/01/17 13:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/01/17 13:56	1
1,2-Dibromoethane	ND		0.10		ug/L			11/01/17 13:56	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/01/17 13:56	1
1,2-Dichloroethane	ND		0.20		ug/L			11/01/17 13:56	1
1,2-Dichloropropane	ND		0.20		ug/L			11/01/17 13:56	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/01/17 13:56	1
2-Butanone	ND		15		ug/L			11/01/17 13:56	1
2-Hexanone	ND		2.0		ug/L			11/01/17 13:56	1
4-Methyl-2-pentanone	ND		5.0		ug/L			11/01/17 13:56	1
Acetone	ND		2.0		ug/L			11/01/17 13:56	1
Acrylonitrile	ND		5.0		ug/L			11/01/17 13:56	1
Benzene	ND		0.20		ug/L			11/01/17 13:56	1
Bromochloromethane	ND		0.20		ug/L			11/01/17 13:56	1
Bromodichloromethane	ND		0.20		ug/L			11/01/17 13:56	1
Bromoform	ND		0.50		ug/L			11/01/17 13:56	1
Bromomethane	ND		1.0		ug/L			11/01/17 13:56	1
Carbon disulfide	ND		0.20		ug/L			11/01/17 13:56	1
Carbon tetrachloride	ND		0.20		ug/L			11/01/17 13:56	1
Chlorobenzene	ND		0.20		ug/L			11/01/17 13:56	1
Chloroethane	ND		0.50		ug/L			11/01/17 13:56	1
Chloroform	ND		0.20		ug/L			11/01/17 13:56	1
Chloromethane	ND		0.30		ug/L			11/01/17 13:56	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 13:56	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/01/17 13:56	1
Dibromochloromethane	ND		0.20		ug/L			11/01/17 13:56	1
Dibromomethane	ND		0.20		ug/L			11/01/17 13:56	1
Ethylbenzene	ND		0.20		ug/L			11/01/17 13:56	1
m,p-Xylene	ND		0.50		ug/L			11/01/17 13:56	1
Methyl iodide	ND		0.50		ug/L			11/01/17 13:56	1
Methylene Chloride	ND		0.50		ug/L			11/01/17 13:56	1
o-Xylene	ND		0.50		ug/L			11/01/17 13:56	1
Styrene	ND		0.50		ug/L			11/01/17 13:56	1
Tetrachloroethene	ND		0.50		ug/L			11/01/17 13:56	1
Toluene	ND		0.20		ug/L			11/01/17 13:56	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/01/17 13:56	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/01/17 13:56	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/01/17 13:56	1
Trichloroethene	ND		0.20		ug/L			11/01/17 13:56	1
Trichlorofluoromethane	ND		0.50		ug/L			11/01/17 13:56	1
Vinyl acetate	ND		1.0		ug/L			11/01/17 13:56	1
Vinyl chloride	ND		0.020		ug/L			11/01/17 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*46 - 150*		*11/01/17 13:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*		*11/01/17 13:56*	*1*
Dibromofluoromethane (Surr)	*100*		*42 - 132*		*11/01/17 13:56*	*1*
Toluene-d8 (Surr)	*103*		*75 - 125*		*11/01/17 13:56*	*1*
Trifluorotoluene (Surr)	*102*		*74 - 118*		*11/01/17 13:56*	*1*

Lab Sample ID: LCS 580-260470/6
Matrix: Water
Analysis Batch: 260470

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	4.85		ug/L		97	68 - 139
1,1,1-Trichloroethane	5.00	4.62		ug/L		92	56 - 150
1,1,2,2-Tetrachloroethane	5.00	4.88		ug/L		98	60 - 134
1,1,2-Trichloroethane	5.00	4.86		ug/L		97	62 - 137
1,1-Dichloroethane	5.00	4.91		ug/L		98	68 - 135
1,1-Dichloroethene	5.00	4.43		ug/L		89	64 - 125
1,2,3-Trichloropropane	5.00	4.77		ug/L		95	45 - 150
1,2-Dibromo-3-Chloropropane	5.00	4.61		ug/L		92	34 - 150
1,2-Dibromoethane	5.00	4.86		ug/L		97	56 - 146
1,2-Dichlorobenzene	5.00	4.98		ug/L		100	73 - 120
1,2-Dichloroethane	5.00	4.99		ug/L		100	63 - 150
1,2-Dichloropropane	5.00	4.78		ug/L		96	72 - 120
1,4-Dichlorobenzene	5.00	5.01		ug/L		100	77 - 120
2-Butanone	25.0	23.1		ug/L		92	30 - 150
2-Hexanone	25.0	23.6		ug/L		94	25 - 150
4-Methyl-2-pentanone	25.0	24.0		ug/L		96	36 - 150
Acetone	25.0	24.6		ug/L		99	20 - 138
Acrylonitrile	50.0	50.9		ug/L		102	55 - 134
Benzene	5.00	4.84		ug/L		97	73 - 120
Bromochloromethane	5.00	4.71		ug/L		94	71 - 131
Bromodichloromethane	5.00	4.77		ug/L		95	62 - 150
Bromoform	5.00	4.68		ug/L		94	51 - 137
Bromomethane	5.00	4.71		ug/L		94	61 - 135
Carbon disulfide	5.00	4.58		ug/L		92	65 - 128
Carbon tetrachloride	5.00	4.65		ug/L		93	54 - 150
Chlorobenzene	5.00	4.75		ug/L		95	74 - 114
Chloroethane	5.00	5.11		ug/L		102	58 - 130
Chloroform	5.00	4.86		ug/L		97	71 - 130
Chloromethane	5.00	4.59		ug/L		92	40 - 150
cis-1,2-Dichloroethene	5.00	4.86		ug/L		97	73 - 130
cis-1,3-Dichloropropene	5.00	4.77		ug/L		95	54 - 150
Dibromochloromethane	5.00	4.85		ug/L		97	46 - 150
Dibromomethane	5.00	4.83		ug/L		97	65 - 137
Ethylbenzene	5.00	4.97		ug/L		99	74 - 125
m,p-Xylene	5.00	4.98		ug/L		100	73 - 130
Methyl iodide	5.00	4.81		ug/L		96	47 - 145
Methylene Chloride	5.00	5.31		ug/L		106	58 - 134
o-Xylene	5.00	5.21		ug/L		104	80 - 139
Styrene	5.00	4.72		ug/L		94	68 - 136
Tetrachloroethene	5.00	4.65		ug/L		93	67 - 123
Toluene	5.00	4.83		ug/L		97	70 - 126
trans-1,2-Dichloroethene	5.00	4.61		ug/L		92	69 - 124
trans-1,3-Dichloropropene	5.00	4.69		ug/L		94	40 - 150

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

Lab Sample ID: LCS 580-260470/6
Matrix: Water
Analysis Batch: 260470

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,4-Dichloro-2-butene	5.00	4.52		ug/L		90	20 - 150
Trichloroethene	5.00	4.56		ug/L		91	72 - 123
Trichlorofluoromethane	5.00	4.83		ug/L		97	60 - 150
Vinyl acetate	12.5	13.9		ug/L		111	30 - 150
Vinyl chloride	5.00	4.49		ug/L		90	59 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*46 - 150*
4-Bromofluorobenzene (Surr)	*99*		*81 - 120*
Dibromofluoromethane (Surr)	*100*		*42 - 132*
Toluene-d8 (Surr)	*99*		*75 - 125*
Trifluorotoluene (Surr)	*99*		*74 - 118*

Lab Sample ID: LCSD 580-260470/7
Matrix: Water
Analysis Batch: 260470

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.83		ug/L		97	68 - 139	0	20
1,1,1-Trichloroethane	5.00	4.53		ug/L		91	56 - 150	2	29
1,1,2,2-Tetrachloroethane	5.00	4.89		ug/L		98	60 - 134	0	25
1,1,2-Trichloroethane	5.00	5.04		ug/L		101	62 - 137	4	30
1,1-Dichloroethane	5.00	4.85		ug/L		97	68 - 135	1	27
1,1-Dichloroethene	5.00	4.69		ug/L		94	64 - 125	6	28
1,2,3-Trichloropropane	5.00	4.77		ug/L		95	45 - 150	0	20
1,2-Dibromo-3-Chloropropane	5.00	4.69		ug/L		94	34 - 150	2	20
1,2-Dibromoethane	5.00	5.11		ug/L		102	56 - 146	5	20
1,2-Dichlorobenzene	5.00	5.01		ug/L		100	73 - 120	1	14
1,2-Dichloroethane	5.00	4.98		ug/L		100	63 - 150	0	29
1,2-Dichloropropane	5.00	4.71		ug/L		94	72 - 120	1	20
1,4-Dichlorobenzene	5.00	4.90		ug/L		98	77 - 120	2	11
2-Butanone	25.0	23.5		ug/L		94	30 - 150	2	35
2-Hexanone	25.0	24.9		ug/L		99	25 - 150	5	28
4-Methyl-2-pentanone	25.0	25.3		ug/L		101	36 - 150	5	34
Acetone	25.0	26.7		ug/L		107	20 - 138	8	35
Acrylonitrile	50.0	49.9		ug/L		100	55 - 134	2	35
Benzene	5.00	4.79		ug/L		96	73 - 120	1	20
Bromochloromethane	5.00	4.61		ug/L		92	71 - 131	2	20
Bromodichloromethane	5.00	4.83		ug/L		97	62 - 150	1	20
Bromoform	5.00	4.81		ug/L		96	51 - 137	3	20
Bromomethane	5.00	4.76		ug/L		95	61 - 135	1	31
Carbon disulfide	5.00	4.59		ug/L		92	65 - 128	0	32
Carbon tetrachloride	5.00	4.67		ug/L		93	54 - 150	1	30
Chlorobenzene	5.00	4.90		ug/L		98	74 - 114	3	12
Chloroethane	5.00	5.16		ug/L		103	58 - 130	1	35
Chloroform	5.00	4.80		ug/L		96	71 - 130	1	20
Chloromethane	5.00	4.68		ug/L		94	40 - 150	2	31
cis-1,2-Dichloroethene	5.00	4.80		ug/L		96	73 - 130	1	20

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

Lab Sample ID: LCSD 580-260470/7
Matrix: Water
Analysis Batch: 260470

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			5.00	4.83		ug/L		97	54 - 150	1	28
Dibromochloromethane			5.00	4.89		ug/L		98	46 - 150	1	20
Dibromomethane			5.00	4.73		ug/L		95	65 - 137	2	20
Ethylbenzene			5.00	5.01		ug/L		100	74 - 125	1	20
m,p-Xylene			5.00	5.03		ug/L		101	73 - 130	1	20
Methyl iodide			5.00	4.83		ug/L		97	47 - 145	0	35
Methylene Chloride			5.00	5.45		ug/L		109	58 - 134	3	29
o-Xylene			5.00	5.08		ug/L		102	80 - 139	2	20
Styrene			5.00	4.71		ug/L		94	68 - 136	0	20
Tetrachloroethene			5.00	4.59		ug/L		92	67 - 123	1	20
Toluene			5.00	4.85		ug/L		97	70 - 126	0	20
trans-1,2-Dichloroethene			5.00	4.55		ug/L		91	69 - 124	1	27
trans-1,3-Dichloropropene			5.00	4.71		ug/L		94	40 - 150	0	30
trans-1,4-Dichloro-2-butene			5.00	4.59		ug/L		92	20 - 150	2	20
Trichloroethene			5.00	4.72		ug/L		94	72 - 123	3	20
Trichlorofluoromethane			5.00	4.67		ug/L		93	60 - 150	3	31
Vinyl acetate			12.5	13.0		ug/L		104	30 - 150	6	35
Vinyl chloride			5.00	4.62		ug/L		92	59 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*46 - 150*
4-Bromofluorobenzene (Surr)	*101*		*81 - 120*
Dibromofluoromethane (Surr)	*98*		*42 - 132*
Toluene-d8 (Surr)	*100*		*75 - 125*
Trifluorotoluene (Surr)	*98*		*74 - 118*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-260249/20-A
Matrix: Water
Analysis Batch: 260476

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		1.1		mg/L		10/30/17 12:52	11/01/17 09:40	1
Iron	ND		0.30		mg/L		10/30/17 12:52	11/01/17 09:40	1
Magnesium	ND		1.1		mg/L		10/30/17 12:52	11/01/17 09:40	1
Manganese	ND		0.020		mg/L		10/30/17 12:52	11/01/17 09:40	1
Potassium	ND		3.3		mg/L		10/30/17 12:52	11/01/17 09:40	1
Sodium	ND		2.0		mg/L		10/30/17 12:52	11/01/17 09:40	1

Lab Sample ID: LCS 580-260249/21-A
Matrix: Water
Analysis Batch: 260476

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium			20.0	19.3		mg/L		97	80 - 120
Iron			22.0	21.6		mg/L		98	80 - 120
Magnesium			20.0	19.3		mg/L		97	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-260249/21-A
Matrix: Water
Analysis Batch: 260476

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.00	0.990		mg/L		99	80 - 120
Potassium	20.0	18.8		mg/L		94	80 - 120
Sodium	20.0	20.6		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-260249/22-A
Matrix: Water
Analysis Batch: 260476

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	20.0	20.3		mg/L		101	80 - 120	5	20
Iron	22.0	22.6		mg/L		103	80 - 120	5	20
Magnesium	20.0	20.2		mg/L		101	80 - 120	5	20
Manganese	1.00	1.02		mg/L		102	80 - 120	3	20
Potassium	20.0	19.7		mg/L		98	80 - 120	4	20
Sodium	20.0	21.5		mg/L		108	80 - 120	5	20

Lab Sample ID: 580-72457-1 MS
Matrix: Water
Analysis Batch: 260476

Client Sample ID: 1017-18
Prep Type: Dissolved
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	180		20.0	188	4	mg/L		54	75 - 125
Iron	ND		22.0	21.5		mg/L		98	75 - 125
Magnesium	93		20.0	108	4	mg/L		74	75 - 125
Manganese	ND		1.00	0.988		mg/L		98	75 - 125
Potassium	10		20.0	29.0		mg/L		93	75 - 125
Sodium	33		20.0	52.4		mg/L		95	75 - 125

Lab Sample ID: 580-72457-1 MSD
Matrix: Water
Analysis Batch: 260476

Client Sample ID: 1017-18
Prep Type: Dissolved
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	180		20.0	183	4	mg/L		31	75 - 125	2	20
Iron	ND		22.0	21.7		mg/L		99	75 - 125	1	20
Magnesium	93		20.0	106	4	mg/L		63	75 - 125	2	20
Manganese	ND		1.00	0.986		mg/L		98	75 - 125	0	20
Potassium	10		20.0	28.9		mg/L		93	75 - 125	0	20
Sodium	33		20.0	51.6		mg/L		91	75 - 125	2	20

Lab Sample ID: 580-72457-1 DU
Matrix: Water
Analysis Batch: 260476

Client Sample ID: 1017-18
Prep Type: Dissolved
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	180		172		mg/L		3	20
Iron	ND		ND		mg/L		NC	20
Magnesium	93		90.5		mg/L		3	20
Manganese	ND		ND		mg/L		NC	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 580-72457-1 DU
Matrix: Water
Analysis Batch: 260476

Client Sample ID: 1017-18
Prep Type: Dissolved
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	10		9.89		mg/L		5	20
Sodium	33		32.4		mg/L		3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 580-260249/20-A
Matrix: Water
Analysis Batch: 260393

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Arsenic	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:12	1
Barium	ND		0.0012		mg/L		10/30/17 12:52	10/31/17 14:12	1
Beryllium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Cadmium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Chromium	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Cobalt	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Copper	ND		0.0020		mg/L		10/30/17 12:52	10/31/17 14:12	1
Lead	ND		0.00080		mg/L		10/30/17 12:52	10/31/17 14:12	1
Nickel	ND		0.0030		mg/L		10/30/17 12:52	10/31/17 14:12	1
Selenium	ND		0.0080		mg/L		10/30/17 12:52	10/31/17 14:12	1
Silver	ND		0.00040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Thallium	ND		0.0010		mg/L		10/30/17 12:52	10/31/17 14:12	1
Vanadium	ND		0.0040		mg/L		10/30/17 12:52	10/31/17 14:12	1
Zinc	ND		0.0070		mg/L		10/30/17 12:52	10/31/17 14:12	1

Lab Sample ID: LCS 580-260249/21-A
Matrix: Water
Analysis Batch: 260393

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.00	3.02		mg/L		101	80 - 120
Arsenic	4.00	4.10		mg/L		103	80 - 120
Barium	4.00	4.02		mg/L		100	80 - 120
Beryllium	0.100	0.0971		mg/L		97	80 - 120
Cadmium	0.100	0.101		mg/L		101	80 - 120
Chromium	0.400	0.401		mg/L		100	80 - 120
Cobalt	1.00	0.998		mg/L		100	80 - 120
Copper	0.500	0.503		mg/L		101	80 - 120
Lead	1.00	0.973		mg/L		97	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	4.00	3.86		mg/L		97	80 - 120
Silver	0.600	0.612		mg/L		102	80 - 120
Thallium	4.00	3.63		mg/L		91	80 - 120
Vanadium	1.00	0.986		mg/L		99	80 - 120
Zinc	4.00	4.01		mg/L		100	80 - 120

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-260249/22-A
Matrix: Water
Analysis Batch: 260393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony			3.00	2.96		mg/L		99	80 - 120	2	20
Arsenic			4.00	4.08		mg/L		102	80 - 120	1	20
Barium			4.00	3.93		mg/L		98	80 - 120	2	20
Beryllium			0.100	0.0922		mg/L		92	80 - 120	5	20
Cadmium			0.100	0.0962		mg/L		96	80 - 120	5	20
Chromium			0.400	0.398		mg/L		100	80 - 120	1	20
Cobalt			1.00	0.989		mg/L		99	80 - 120	1	20
Copper			0.500	0.515		mg/L		103	80 - 120	2	20
Lead			1.00	0.964		mg/L		96	80 - 120	1	20
Nickel			1.00	1.02		mg/L		102	80 - 120	1	20
Selenium			4.00	3.87		mg/L		97	80 - 120	0	20
Silver			0.600	0.609		mg/L		101	80 - 120	1	20
Thallium			4.00	3.67		mg/L		92	80 - 120	1	20
Vanadium			1.00	0.990		mg/L		99	80 - 120	0	20
Zinc			4.00	4.01		mg/L		100	80 - 120	0	20

Lab Sample ID: 580-72457-1 MS
Matrix: Water
Analysis Batch: 260393

Client Sample ID: 1017-18
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		3.00	3.02		mg/L		101	80 - 120
Arsenic	0.0011		4.00	3.96		mg/L		99	80 - 120
Barium	0.053		4.00	4.04		mg/L		100	80 - 120
Beryllium	ND		0.100	0.105		mg/L		105	80 - 120
Cadmium	ND		0.100	0.105		mg/L		105	80 - 120
Chromium	0.00047		0.400	0.388		mg/L		97	80 - 120
Cobalt	ND		1.00	0.982		mg/L		98	80 - 120
Copper	ND		0.500	0.479		mg/L		95	80 - 120
Lead	ND		1.00	0.972		mg/L		97	80 - 120
Nickel	0.0047		1.00	0.964		mg/L		96	80 - 120
Selenium	ND		4.00	3.92		mg/L		98	80 - 120
Silver	ND		0.600	0.601		mg/L		100	80 - 120
Thallium	ND		4.00	3.77		mg/L		94	80 - 120
Vanadium	0.0043		1.00	0.958		mg/L		95	80 - 120
Zinc	ND		4.00	3.88		mg/L		97	80 - 120

Lab Sample ID: 580-72457-1 MSD
Matrix: Water
Analysis Batch: 260393

Client Sample ID: 1017-18
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		3.00	3.00		mg/L		100	80 - 120	1	20
Arsenic	0.0011		4.00	3.83		mg/L		96	80 - 120	3	20
Barium	0.053		4.00	4.01		mg/L		99	80 - 120	1	20
Beryllium	ND		0.100	0.0968		mg/L		97	80 - 120	8	20
Cadmium	ND		0.100	0.0997		mg/L		100	80 - 120	5	20
Chromium	0.00047		0.400	0.393		mg/L		98	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-72457-1 MSD
Matrix: Water
Analysis Batch: 260393

Client Sample ID: 1017-18
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	ND		1.00	0.971		mg/L		97	80 - 120	1	20
Copper	ND		0.500	0.473		mg/L		94	80 - 120	1	20
Lead	ND		1.00	0.938		mg/L		94	80 - 120	4	20
Nickel	0.0047		1.00	0.944		mg/L		94	80 - 120	2	20
Selenium	ND		4.00	3.86		mg/L		97	80 - 120	1	20
Silver	ND		0.600	0.595		mg/L		99	80 - 120	1	20
Thallium	ND		4.00	3.60		mg/L		90	80 - 120	5	20
Vanadium	0.0043		1.00	0.951		mg/L		95	80 - 120	1	20
Zinc	ND		4.00	3.80		mg/L		95	80 - 120	2	20

Lab Sample ID: 580-72457-1 DU
Matrix: Water
Analysis Batch: 260393

Client Sample ID: 1017-18
Prep Type: Total Recoverable
Prep Batch: 260249

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND		ND		mg/L				NC	20
Arsenic	0.0011		0.00108		mg/L				4	20
Barium	0.053		0.0520		mg/L				1	20
Beryllium	ND		ND		mg/L				NC	20
Cadmium	ND		ND		mg/L				NC	20
Chromium	0.00047		0.000479		mg/L				3	20
Cobalt	ND		ND		mg/L				NC	20
Copper	ND		ND		mg/L				NC	20
Lead	ND		ND		mg/L				NC	20
Nickel	0.0047		0.00458		mg/L				2	20
Selenium	ND		ND		mg/L				NC	20
Silver	ND		ND		mg/L				NC	20
Thallium	ND		ND		mg/L				NC	20
Vanadium	0.0043		0.00420		mg/L				1	20
Zinc	ND		ND		mg/L				NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-260646/3
Matrix: Water
Analysis Batch: 260646

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			10/31/17 12:49	1
Chloride	ND		0.90		mg/L			10/31/17 12:49	1
Sulfate	ND		1.2		mg/L			10/31/17 12:49	1

Lab Sample ID: LCS 580-260646/4
Matrix: Water
Analysis Batch: 260646

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			5.00	5.10		mg/L		102	90 - 110		
Chloride			50.0	52.3		mg/L		105	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 580-260646/4
Matrix: Water
Analysis Batch: 260646

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			50.0	51.4		mg/L		103	90 - 110		

Lab Sample ID: 580-72457-1 MS
Matrix: Water
Analysis Batch: 260646

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND		5.00	5.01		mg/L		100	90 - 110		
Chloride	22		50.0	75.3		mg/L		106	90 - 110		
Sulfate	110	F1	50.0	155	F1	mg/L		88	90 - 110		

Lab Sample ID: 580-72457-1 MSD
Matrix: Water
Analysis Batch: 260646

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.17		mg/L		103	90 - 110	3	15
Chloride	22		50.0	75.3		mg/L		106	90 - 110	0	15
Sulfate	110	F1	50.0	155	F1	mg/L		87	90 - 110	0	15

Lab Sample ID: MB 580-260652/3
Matrix: Water
Analysis Batch: 260652

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			11/02/17 11:42	1
Chloride	ND		0.90		mg/L			11/02/17 11:42	1
Sulfate	ND		1.2		mg/L			11/02/17 11:42	1

Lab Sample ID: LCS 580-260652/4
Matrix: Water
Analysis Batch: 260652

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			5.00	5.12		mg/L		102	90 - 110		
Chloride			50.0	52.1		mg/L		104	90 - 110		
Sulfate			50.0	51.2		mg/L		102	90 - 110		

Lab Sample ID: 580-72457-1 MS
Matrix: Water
Analysis Batch: 260652

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND		5.00	4.94		mg/L		99	90 - 110		
Chloride	23		50.0	74.6		mg/L		104	90 - 110		
Sulfate	110	F1	50.0	153	F1	mg/L		81	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-72457-1 MSD — **Client Sample ID: 1017-18**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260652

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.00		mg/L		100	90 - 110	1	15
Chloride	23		50.0	74.7		mg/L		104	90 - 110	0	15
Sulfate	110	F1	50.0	153	F1	mg/L		82	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-260912/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260952 — **Prep Batch: 260912**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/08/17 11:05	11/08/17 15:24	1

Lab Sample ID: LCS 580-260912/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260952 — **Prep Batch: 260912**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	2.00	1.84		mg/L		92	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 580-260879/12 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.15		mg/L			11/07/17 15:48	1

Lab Sample ID: LCS 580-260879/13 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.954		mg/L		95	90 - 110

Lab Sample ID: LCSD 580-260879/14 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 260879

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	1.00	0.946		mg/L		95	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-260719/2
Matrix: Water
Analysis Batch: 260719

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	100	99.9		mg/L		100	85 - 115

Lab Sample ID: 580-72457-1 DU
Matrix: Water
Analysis Batch: 260719

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	680		680		mg/L		0.5	17
Bicarbonate Alkalinity as CaCO3	680		680		mg/L		0.5	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-260424/1
Matrix: Water
Analysis Batch: 260424

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			11/01/17 10:31	1

Lab Sample ID: LCS 580-260424/2
Matrix: Water
Analysis Batch: 260424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	996		mg/L		100	80 - 120

Lab Sample ID: 580-72457-1 DU
Matrix: Water
Analysis Batch: 260424

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	910		906		mg/L		0.8	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-260596/3-A
Matrix: Water
Analysis Batch: 260597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260596

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		11/02/17 12:45	11/02/17 12:45	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 580-260596/4-A
Matrix: Water
Analysis Batch: 260597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	75.0	76.0		mg/L		101	80 - 120

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 580-260978/3
Matrix: Water
Analysis Batch: 260978

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0		mg/L			11/08/17 18:16	1

Lab Sample ID: LCS 580-260978/4
Matrix: Water
Analysis Batch: 260978

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	8.64		mg/L		86	85 - 115

Lab Sample ID: 580-72457-1 MS
Matrix: Water
Analysis Batch: 260978

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.3	F1	10.0	10.5	F1	mg/L		82	85 - 115

Lab Sample ID: 580-72457-1 MSD
Matrix: Water
Analysis Batch: 260978

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.3	F1	10.0	10.6	F1	mg/L		82	85 - 115	1	20

Lab Sample ID: 580-72457-1 DU
Matrix: Water
Analysis Batch: 260978

Client Sample ID: 1017-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	2.3	F1	2.24		mg/L		4	20

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-18

Date Collected: 10/26/17 09:35
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 20:08	P1P	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 09:49	SPP	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 10:17	SPP	TAL SEA
Total Recoverable	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260393	10/31/17 14:24	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 15:21	MMM	TAL SEA
Total/NA	Analysis	300.0		5	260646	10/31/17 19:08	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		20	260879	11/07/17 15:58	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260424	11/01/17 10:31	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260978	11/08/17 18:16	MP	TAL SEA

Client Sample ID: 1017-17

Date Collected: 10/26/17 10:47
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 20:34	P1P	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 10:21	SPP	TAL SEA
Total Recoverable	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260393	10/31/17 14:21	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 15:56	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		5	260879	11/07/17 15:59	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260424	11/01/17 10:31	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260978	11/08/17 18:16	MP	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-19

Date Collected: 10/26/17 12:00
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 21:01	P1P	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 10:24	SPP	TAL SEA
Total Recoverable	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260393	10/31/17 14:52	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 16:08	MMM	TAL SEA
Total/NA	Analysis	300.0		5	260646	10/31/17 19:20	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		5	260879	11/07/17 16:02	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260424	11/01/17 10:31	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260978	11/08/17 18:16	MP	TAL SEA

Client Sample ID: 1017-31

Date Collected: 10/26/17 12:10
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 21:27	P1P	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 10:27	SPP	TAL SEA
Total Recoverable	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260393	10/31/17 14:55	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 16:20	MMM	TAL SEA
Total/NA	Analysis	300.0		5	260646	10/31/17 19:32	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		5	260879	11/07/17 16:03	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260424	11/01/17 10:31	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260978	11/08/17 18:16	MP	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Client Sample ID: 1017-25

Date Collected: 10/26/17 13:20
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 21:54	P1P	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 10:31	SPP	TAL SEA
Total Recoverable	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260393	10/31/17 14:59	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 16:31	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260879	11/07/17 16:05	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260424	11/01/17 10:31	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260978	11/08/17 18:16	MP	TAL SEA

Client Sample ID: 1017-05

Date Collected: 10/26/17 14:45
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 22:20	P1P	TAL SEA
Dissolved	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Dissolved	Analysis	6010C		1	260476	11/01/17 10:34	SPP	TAL SEA
Total Recoverable	Prep	3005A			260249	10/30/17 12:52	ASJ	TAL SEA
Total Recoverable	Analysis	6020A		1	260393	10/31/17 15:02	FCW	TAL SEA
Total/NA	Analysis	300.0		1	260646	10/31/17 16:43	MMM	TAL SEA
Total/NA	Prep	Distill/Ammonia			260912	11/08/17 11:05	EMM	TAL SEA
Total/NA	Analysis	350.1		1	260952	11/08/17 15:24	EMM	TAL SEA
Total/NA	Analysis	353.2		1	260879	11/07/17 16:06	MMM	TAL SEA
Total/NA	Analysis	SM 2320B		1	260719	11/04/17 17:47	EMM	TAL SEA
Total/NA	Analysis	SM 2540C		1	260424	11/01/17 10:31	MP	TAL SEA
Total/NA	Prep	SM 5220			260596	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5220D		1	260597	11/02/17 12:45	J1Y	TAL SEA
Total/NA	Analysis	SM 5310B		1	260978	11/08/17 18:16	MP	TAL SEA

Client Sample ID: Trip Blank

Date Collected: 10/26/17 00:01
Date Received: 10/27/17 11:45

Lab Sample ID: 580-72457-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	260470	11/01/17 15:15	P1P	TAL SEA

Lab Chronicle

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C553	02-17-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020A	3005A	Water	Antimony
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Barium
6020A	3005A	Water	Beryllium
6020A	3005A	Water	Cadmium
6020A	3005A	Water	Chromium
6020A	3005A	Water	Cobalt
6020A	3005A	Water	Copper
6020A	3005A	Water	Lead
6020A	3005A	Water	Nickel
6020A	3005A	Water	Selenium
6020A	3005A	Water	Silver
6020A	3005A	Water	Thallium
6020A	3005A	Water	Vanadium
6020A	3005A	Water	Zinc
SM 2320B		Water	Hydroxide Alkalinity as CaCO3

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville Solid Waste Facility GW

TestAmerica Job ID: 580-72457-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-72457-1	1017-18	Water	10/26/17 09:35	10/27/17 11:45
580-72457-2	1017-17	Water	10/26/17 10:47	10/27/17 11:45
580-72457-3	1017-19	Water	10/26/17 12:00	10/27/17 11:45
580-72457-4	1017-31	Water	10/26/17 12:10	10/27/17 11:45
580-72457-5	1017-25	Water	10/26/17 13:20	10/27/17 11:45
580-72457-6	1017-05	Water	10/26/17 14:45	10/27/17 11:45
580-72457-7	Trip Blank	Water	10/26/17 00:01	10/27/17 11:45

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Sam Graber	Lab PM: Gamble, Cathy L	Carrier Tracking No(s):	COC No: 580-26267-8656.4
Client Contact: Mr. Sam Graber	Phone: 612 440 2480	E-Mail: cathy.gamble@testamericainc.com		Page: Page ~~1 of 7~~ 1
Company: SCS Engineers				Job #: 04207033 10

Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard	Analysis Requested	Preservation Codes:
City: Bellevue	TAT Requested (days):	Loc: 580 72457	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: WA, 98005-1877			
Phone: 425-289-5455(Tel)	PO #: Purchase Order not required		
Email: SGraber@scsengineers.com	WO #:		
Project Name: Coupeville Solid Waste Facility Groundwa	Project #: 58009563		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B, 300.0_28D	6020A_LL - Total Metals	6010C - Diss Metals	350.1, 353.2, 5220D	SM5310_TOC_B - TOC	2540C - TDS	8260C_LL - (MOD) Local Method	8151A_MS - Standard Reporting List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	D	S	S	N	A	N		
1017 - 18	10/26/17	935	G	Water	Y	N	X	X	X	X	X	X	X		9	
1017 - 17		1047		Water	Y	N	X	X	X	X	X	X	X		9	
1017 - 19		1200		Water	Y	N	X	X	X	X	X	X	X		9	
1017 - 31		1210		Water	Y	N	X	X	X	X	X	X	X		9	
1017 - 25		1320		Water	Y	N	X	X	X	X	X	X	X		9	
1017 - 05		1445		Water	Y	N	X	X	X	X	X	X	X		9	
Trip blank		-	-	Water	N	N							X		6	
				Water												
				Water												
				Water												
				Water												

580-72457 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if sa...
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/27/17 1145	Company SCS	Received by:	Date/Time: 10/27/17 1145	Company TASEH
Relinquished by:	Date/Time:	Company		Time	
Relinquished by:	Date/Time:	Company			

Therm. ID A2 Cor 2.9 Unc 3.6 Therm. ID IR5 Cor 5.6 Unc 5.7
Cooler Dsc Lg Blue @Lab 1440 Cooler Dsc Lg Blue @Lab 1440
Wet/Packs Packing Bubble Wet/Packs Packing Bubble
Custody Seal: Yes ___ No ✓ Custody Seal: Yes ___

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:

11/10/2017

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-72457-1

Login Number: 72457
List Number: 1
Creator: Hobbs, Kenneth F

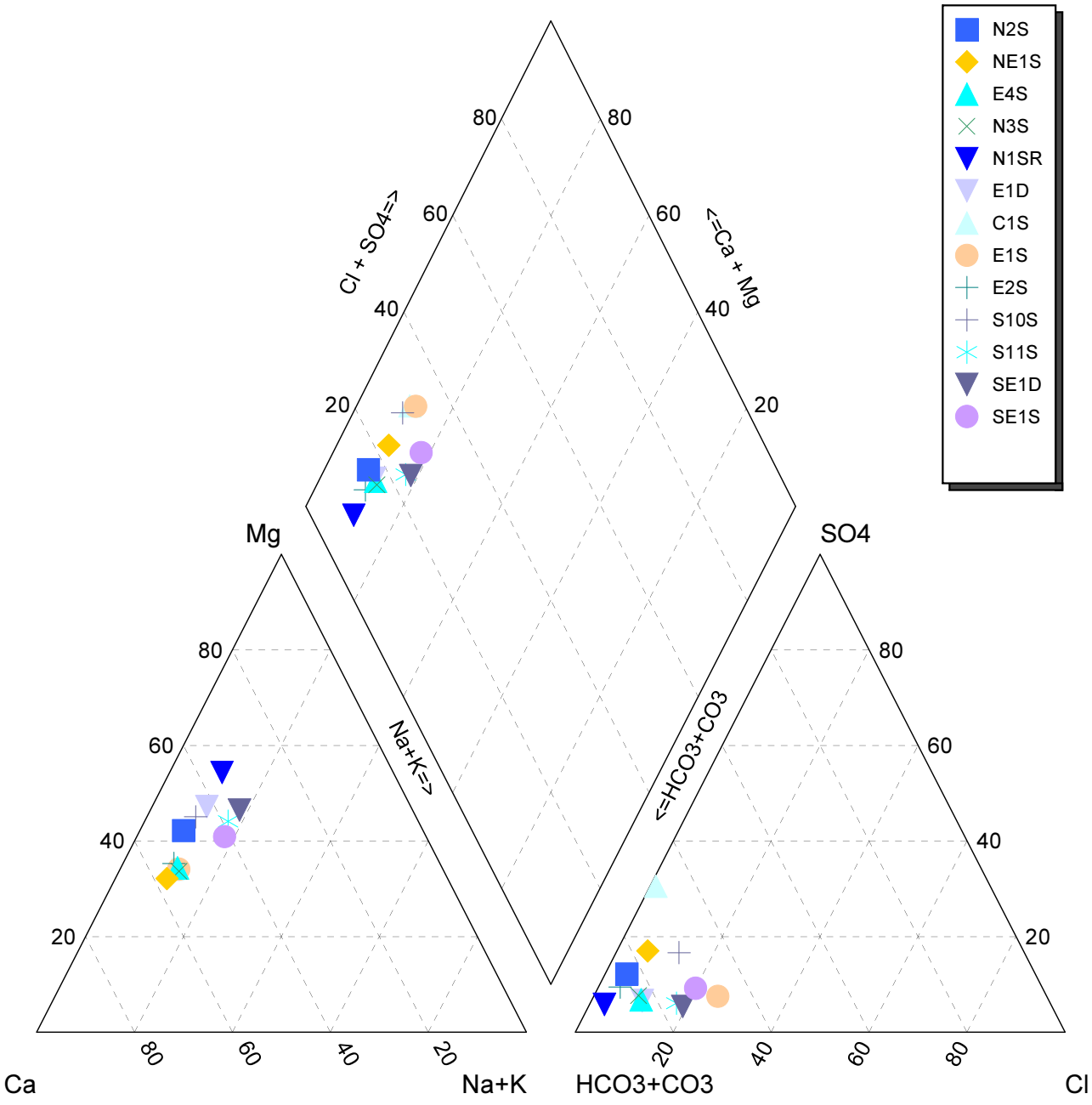
List Source: TestAmerica Seattle

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

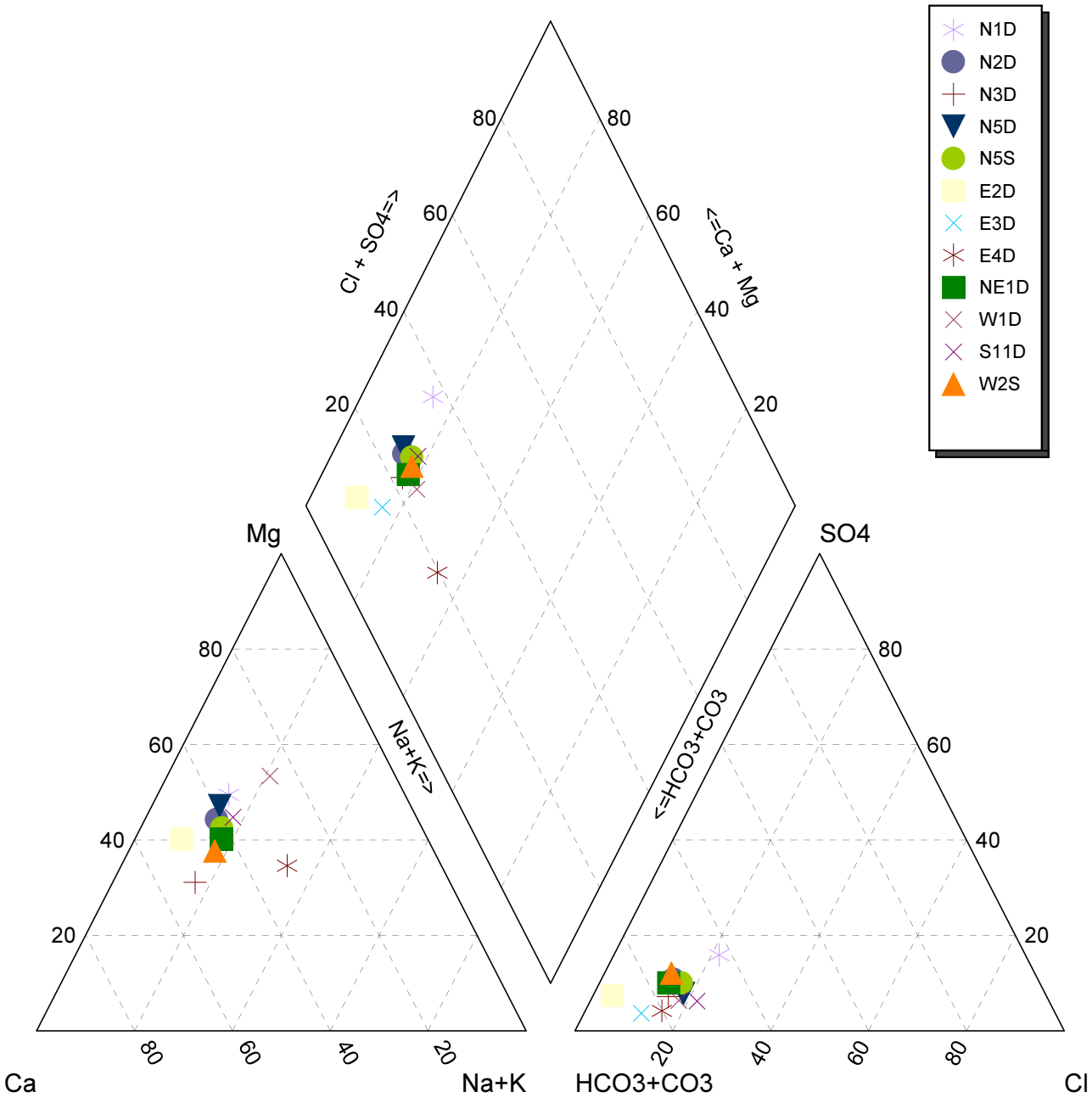
APPENDIX C

2017 GROUNDWATER

GEOCHEMICAL EVALUATION

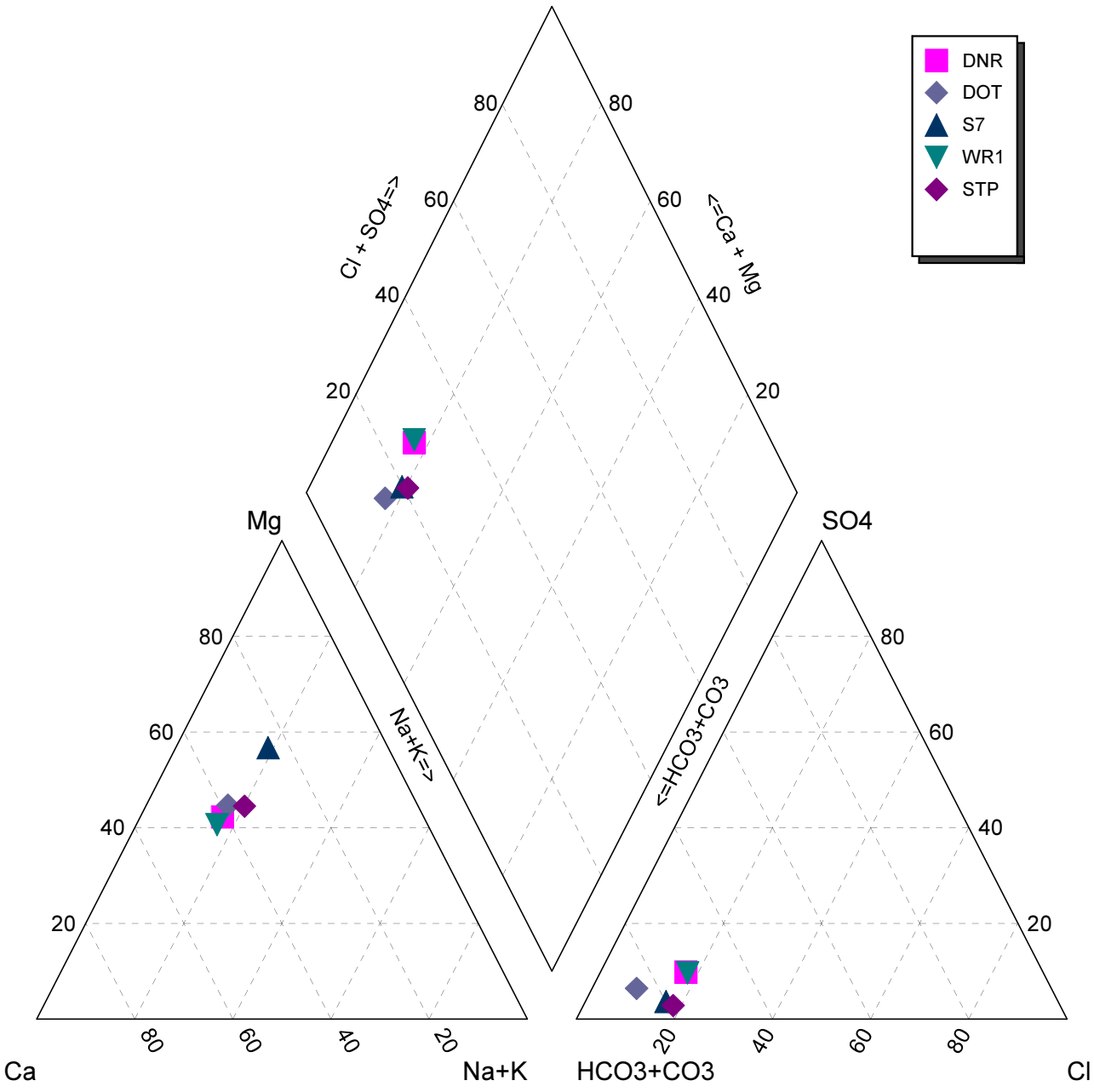


DESCRIPTION: 1Q17 Piper Plot - Shallow Wells		
	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

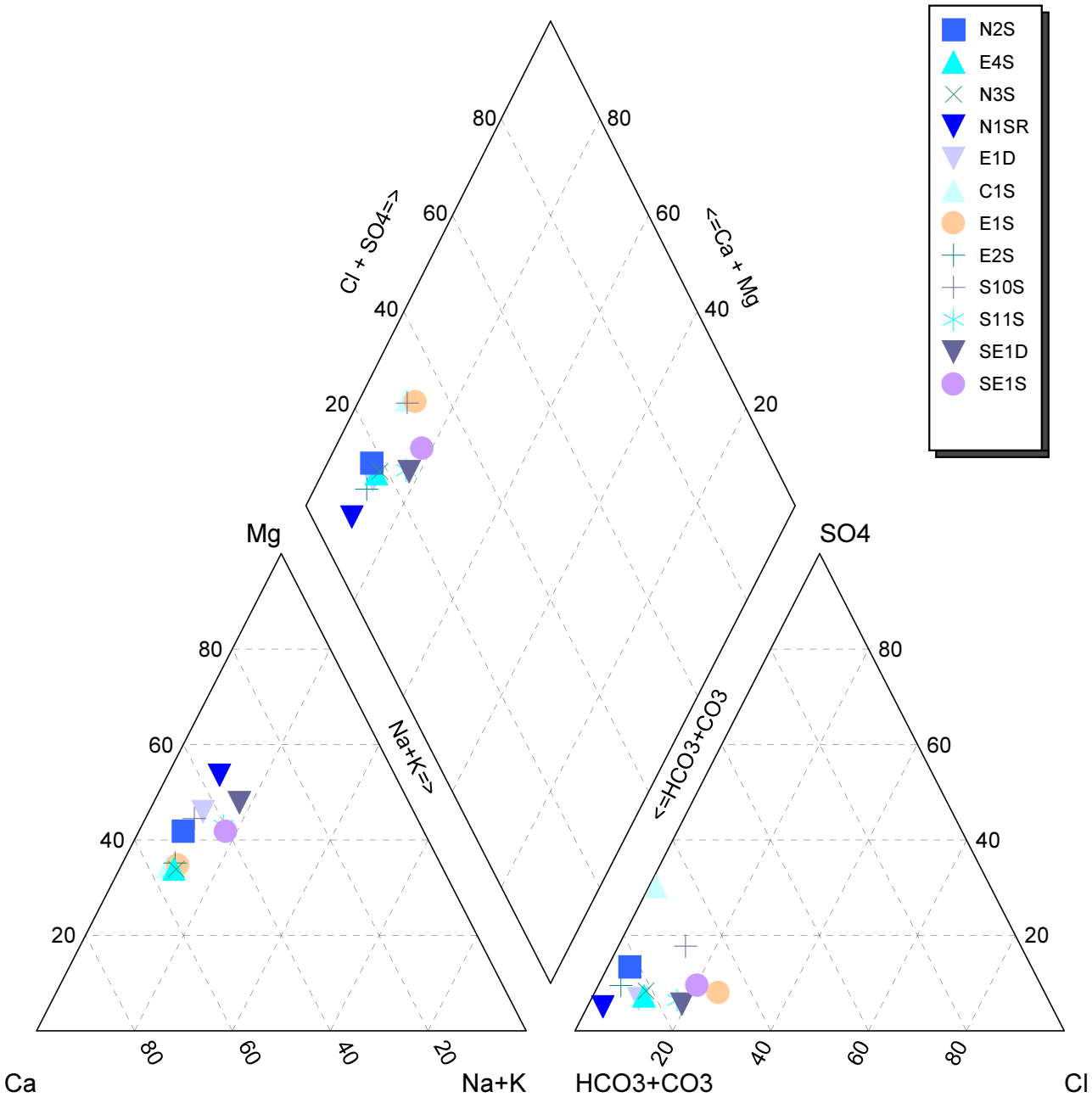


DESCRIPTION: 1Q17 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

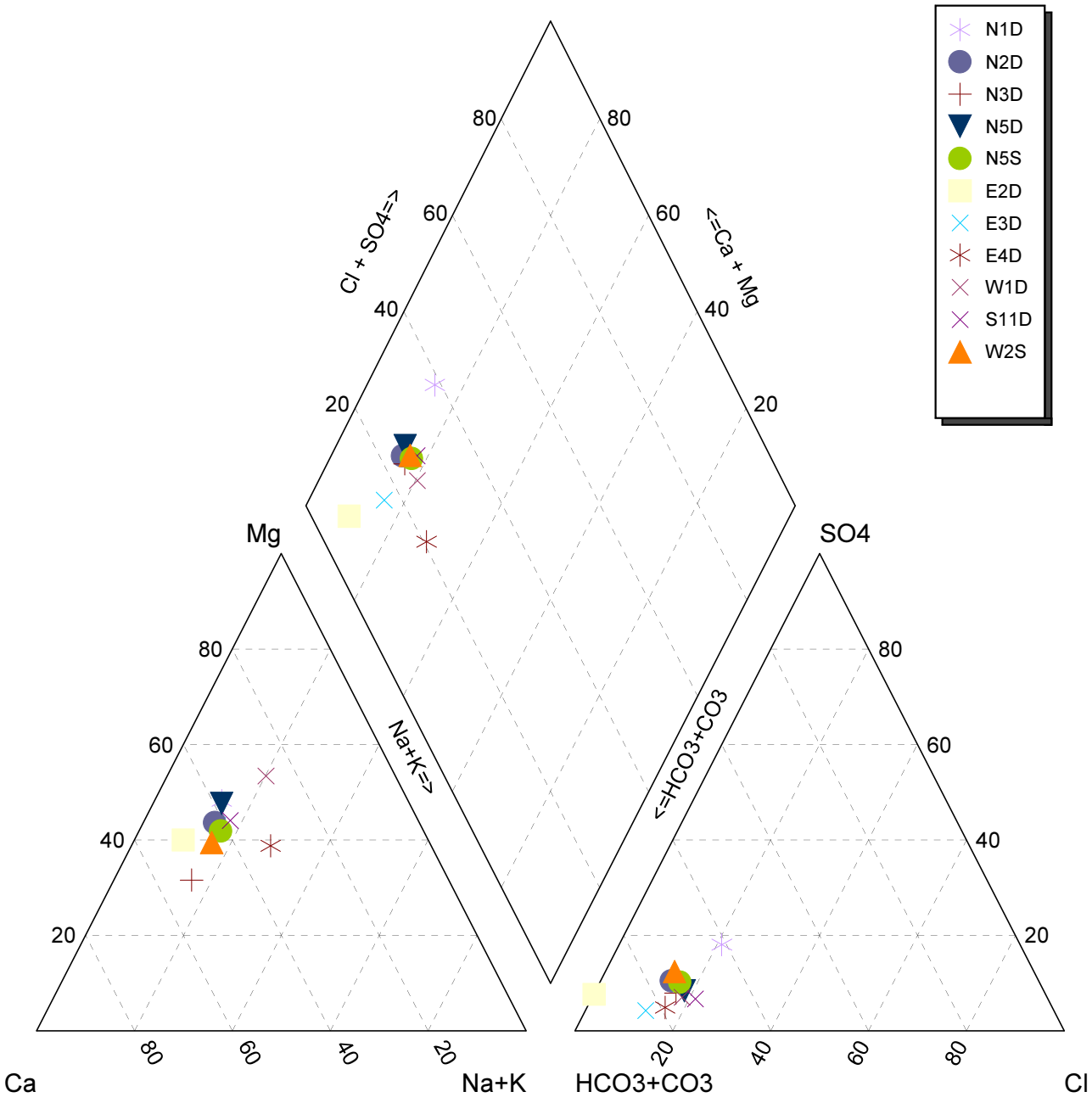


DESCRIPTION: 1Q17 Piper Plot - Pumping Wells		
	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018



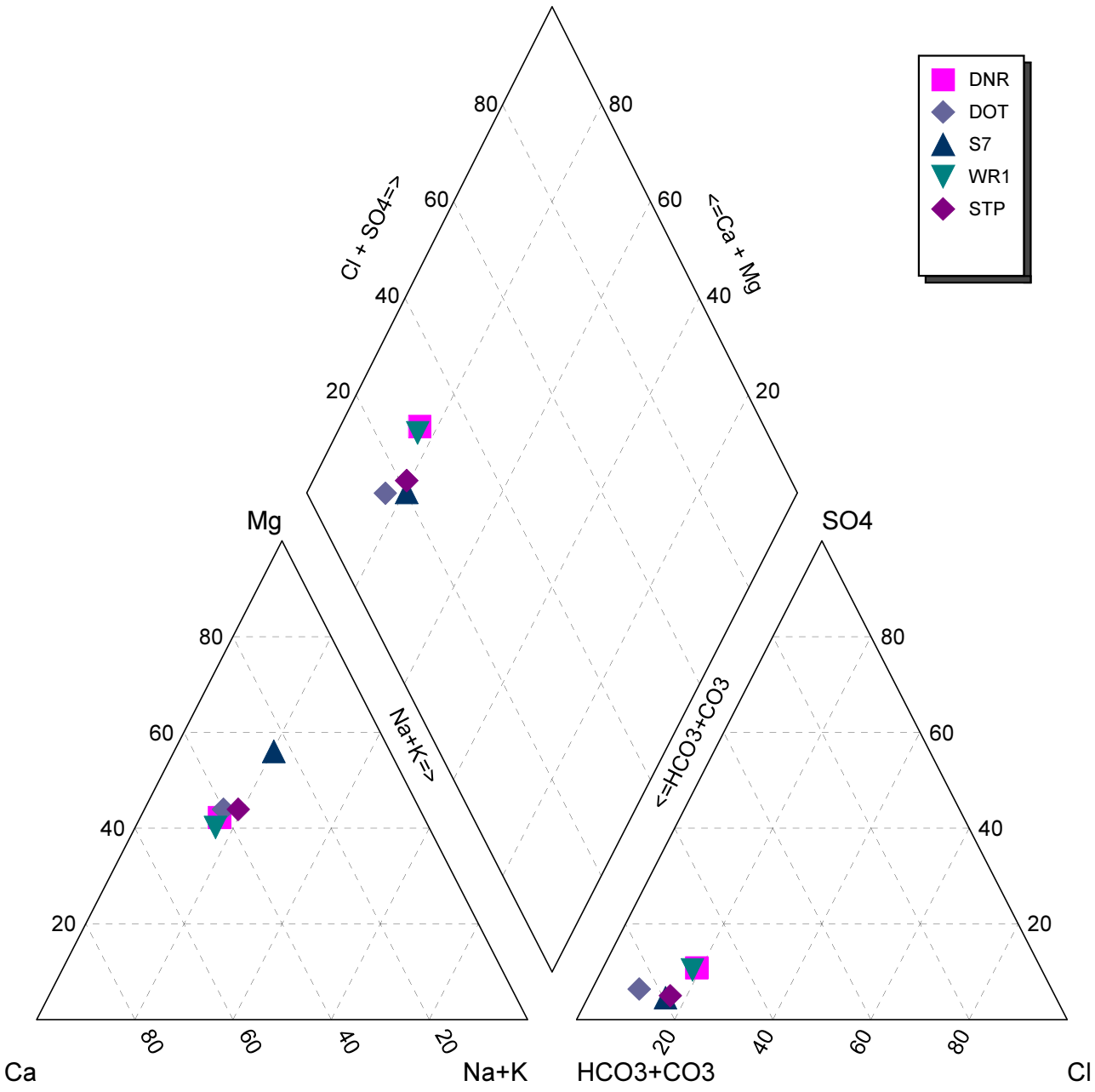
DESCRIPTION: 2Q17 Piper Plot - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

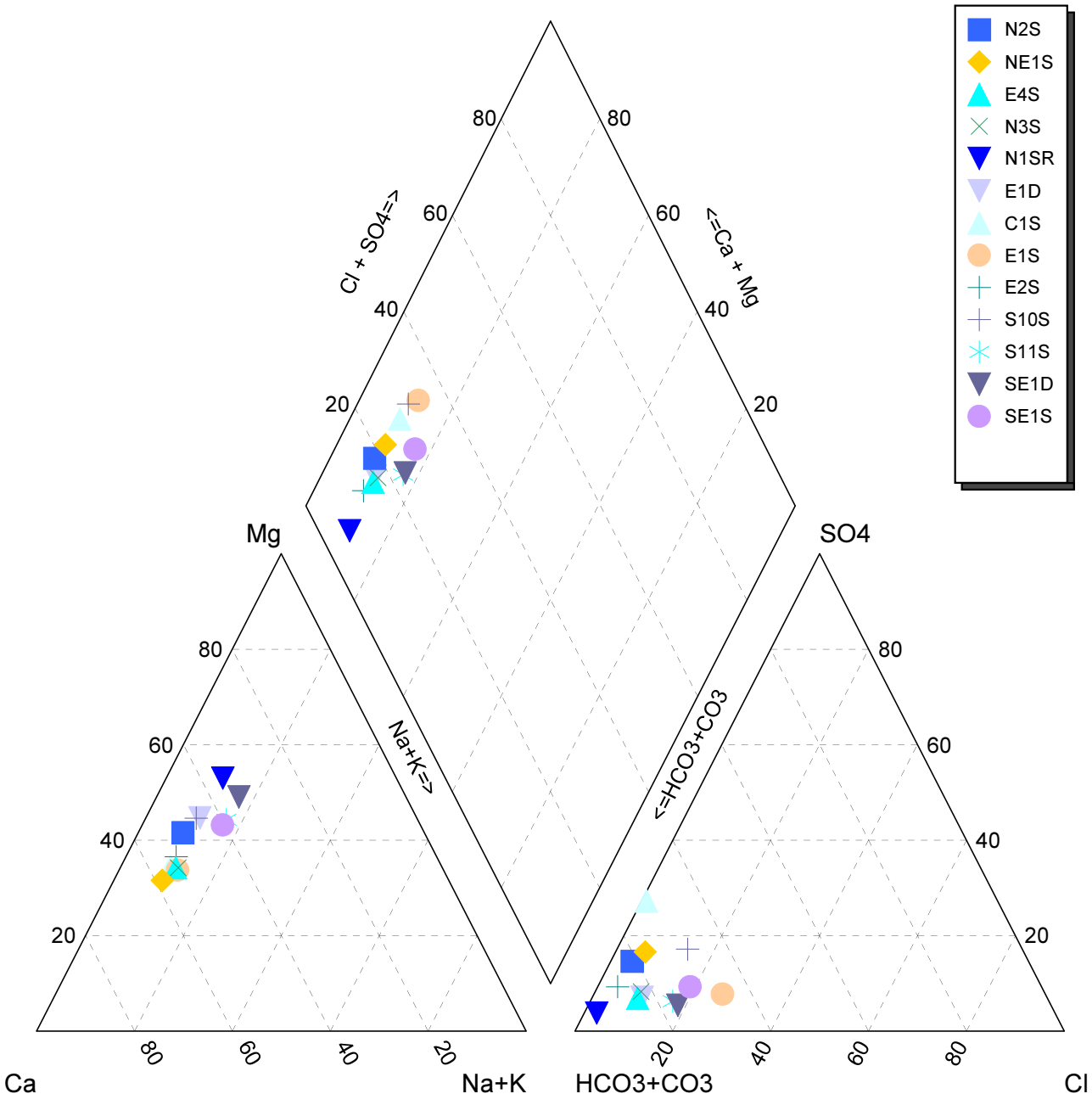


DESCRIPTION: 2Q17 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

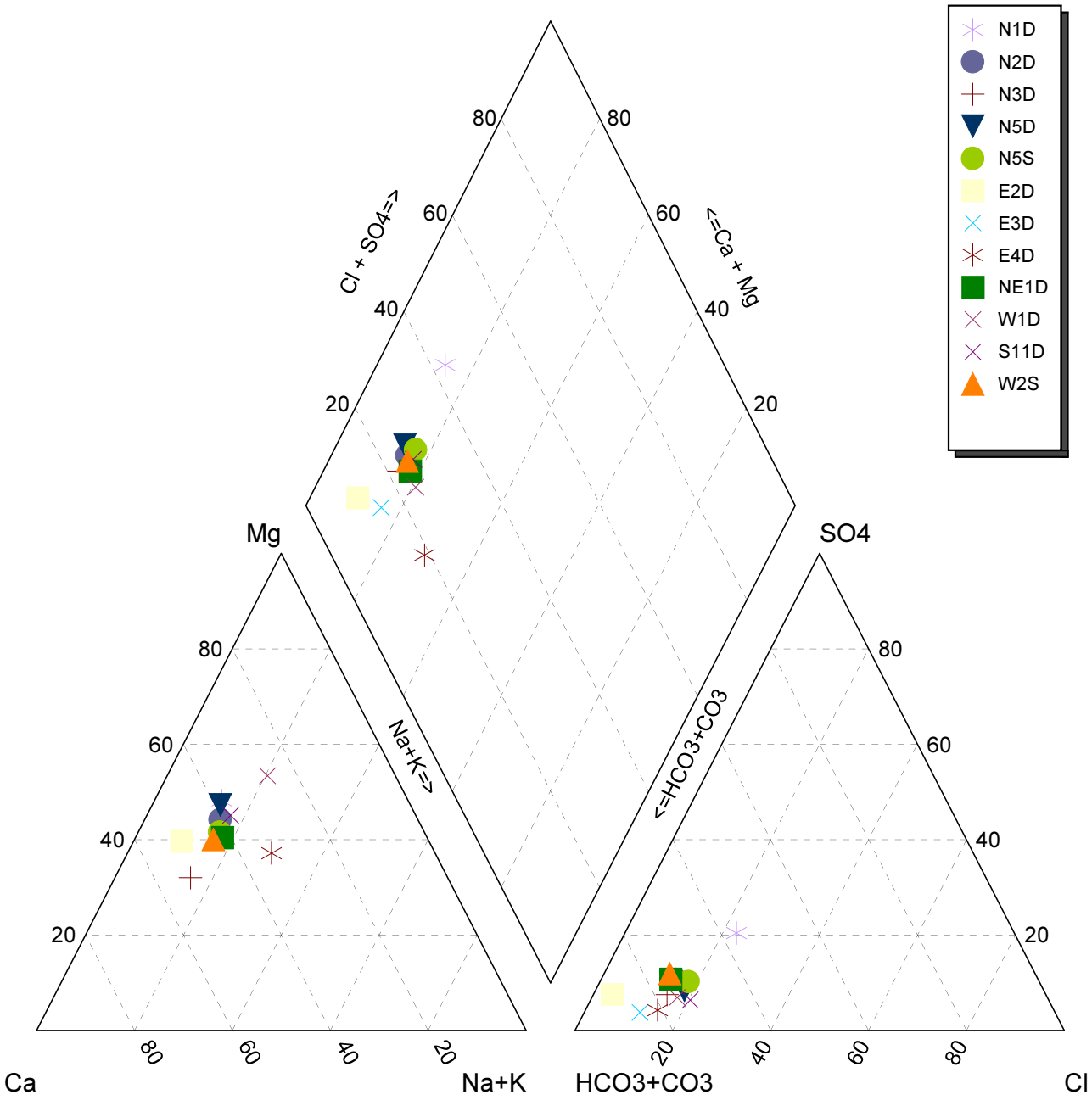


DESCRIPTION: 2Q17 Piper Plot - Pumping Wells		
	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018



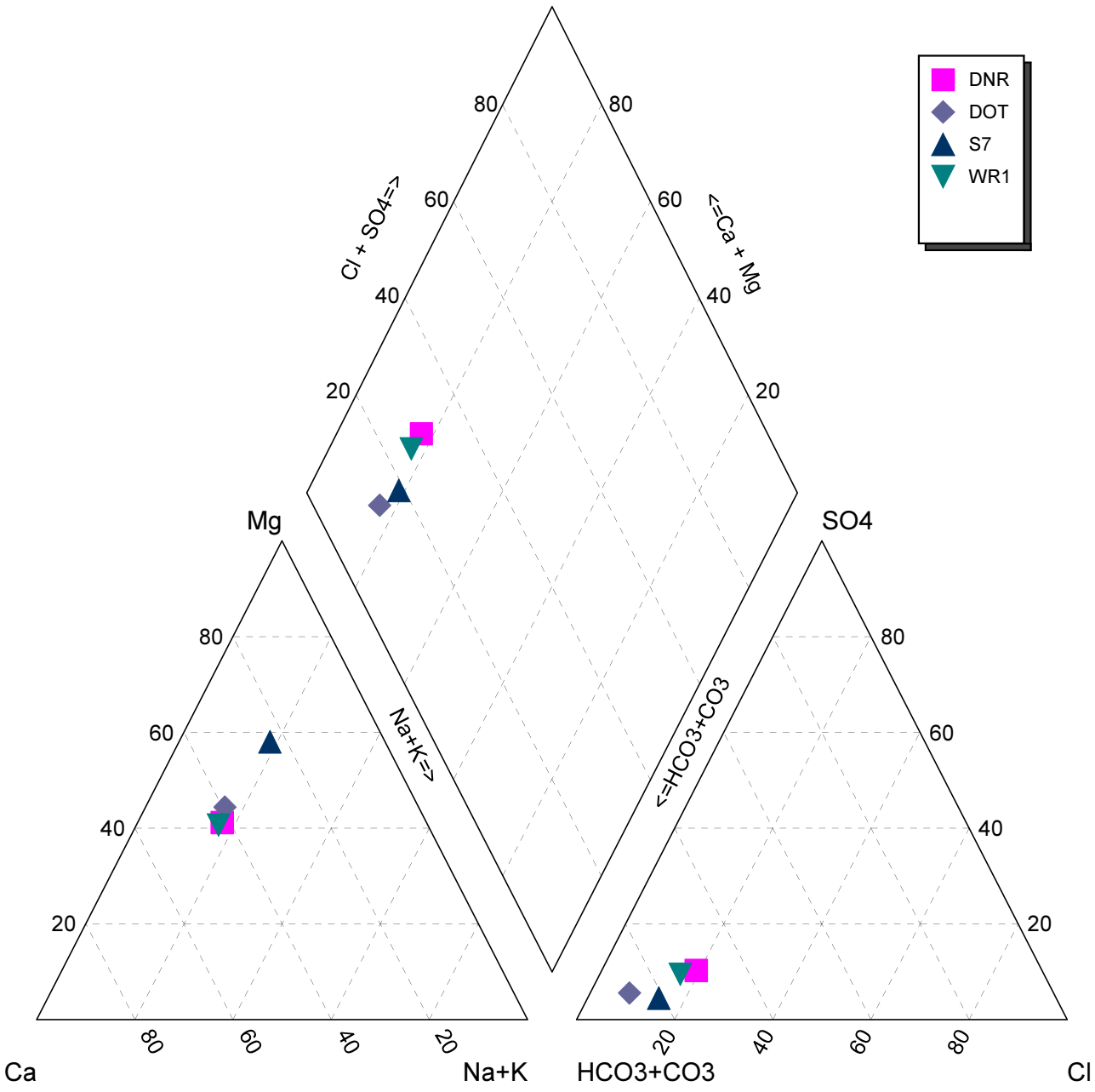
DESCRIPTION: 3Q17 Piper Plot - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

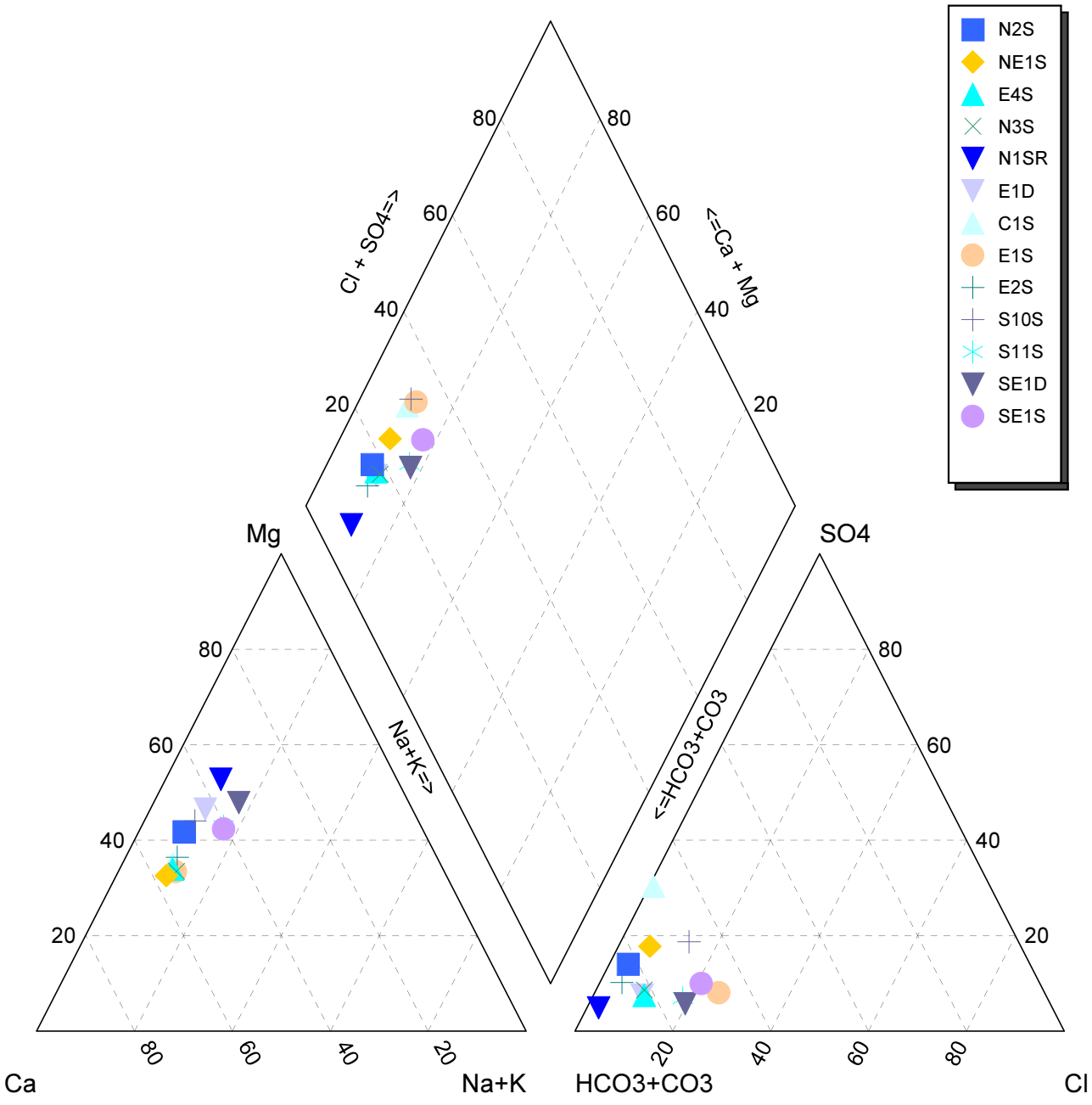


DESCRIPTION: 3Q17 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

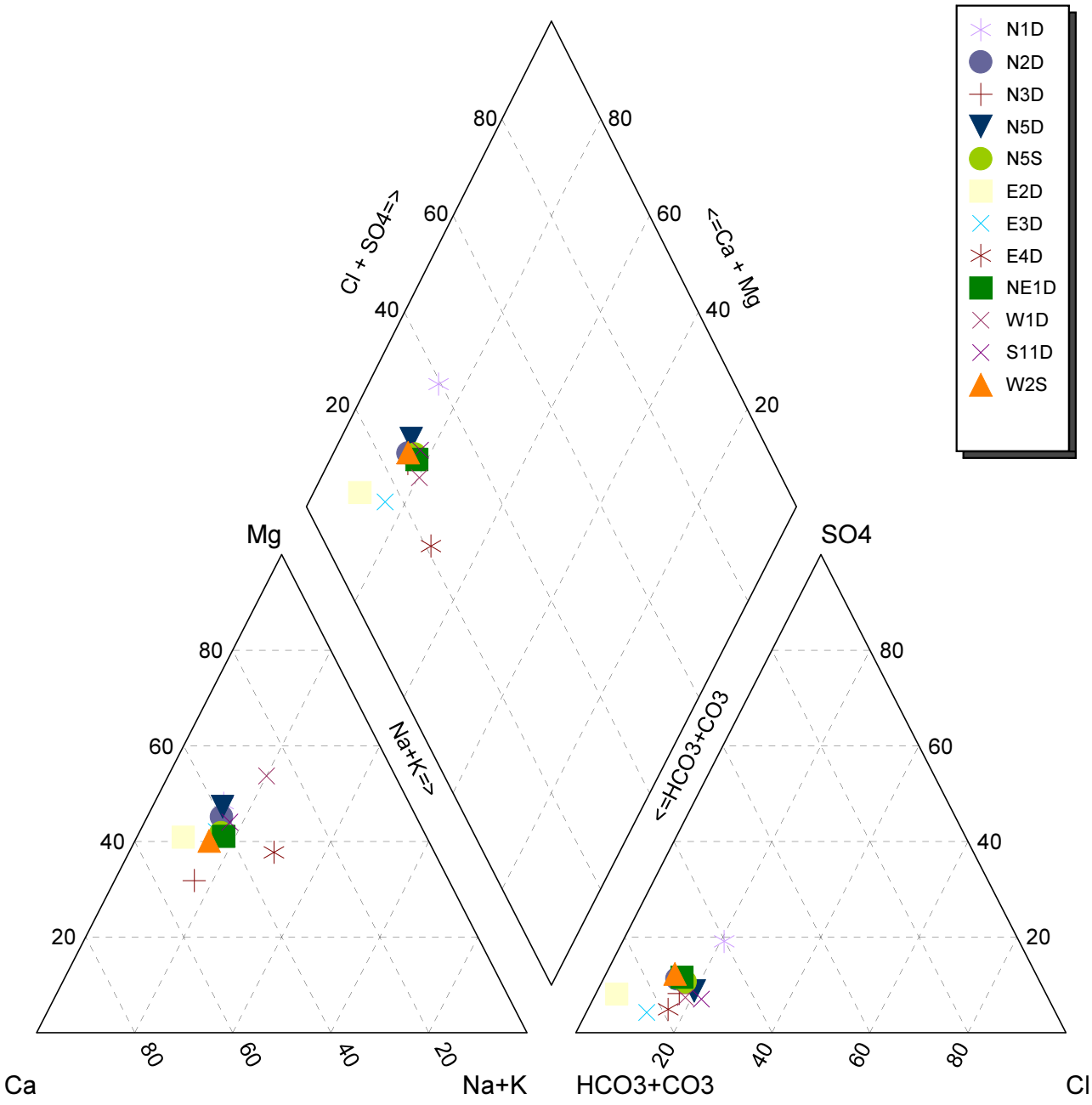


DESCRIPTION: 3Q17 Piper Plot - Pumping Wells		
	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018



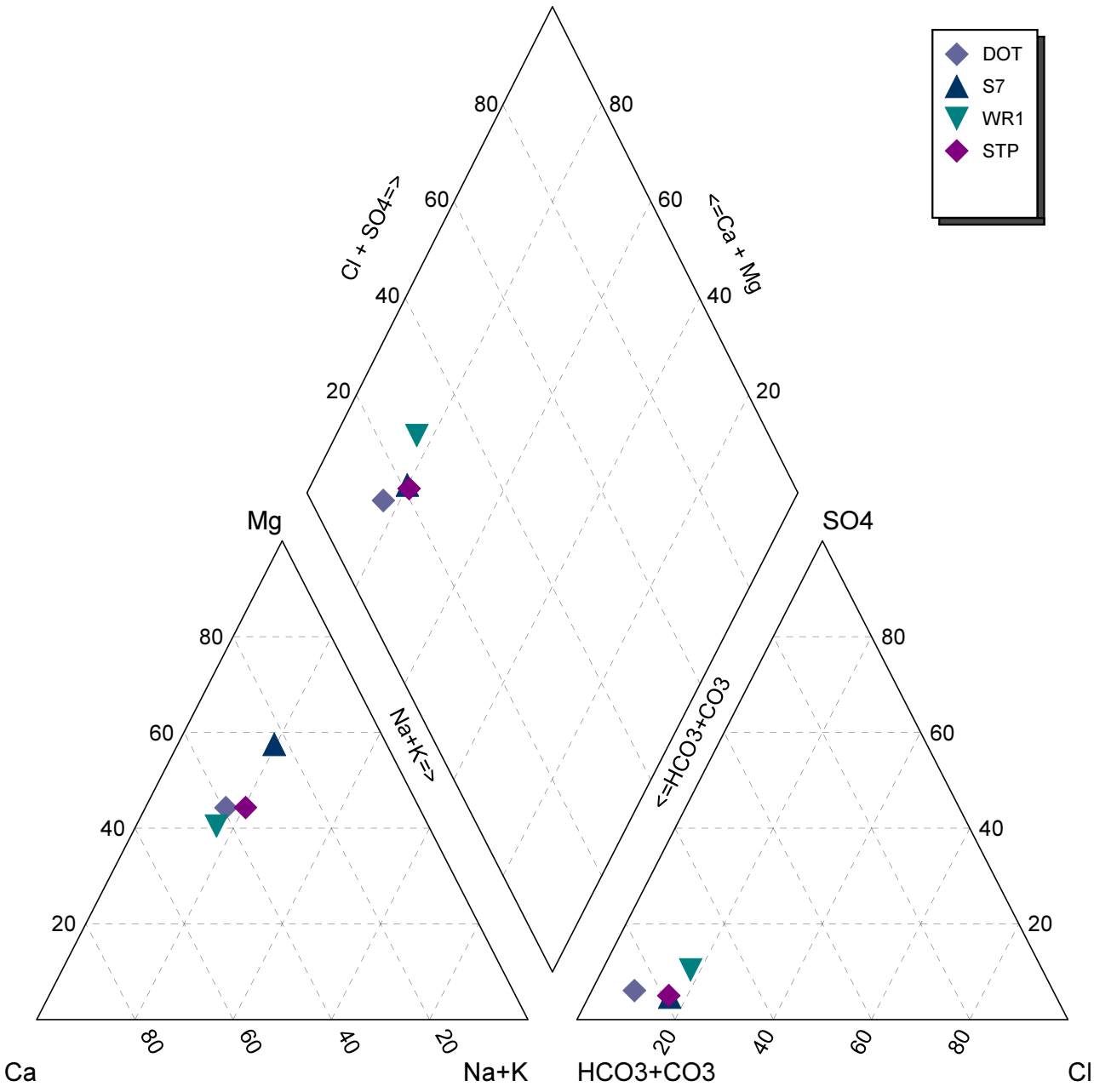
DESCRIPTION: 4Q17 Piper Plot - Shallow Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018



DESCRIPTION: 4Q17 Piper Plot - Deep Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018



DESCRIPTION: 4Q17 Piper Plot - Pumping Wells

	PROJECT: Coupeville Solid Waste Complex	PROJECT NO: 04207033.10
	CLIENT: Island County Public Works	DATE: January 2018

Cation/Anion Balance

Location	DNR
Sample Date	1/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	0.41	0	
Mn	0.0364	0.1	0.0036	
K	0.02258	5.10	0.130	
Ca	0.04990	64.00	3.19	
Mg	0.08229	40.00	3.29	
		Sum of Cations	7.8	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	42.00	0.88	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.92	meq/L
Balance (% difference) *			-6.72	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.14	0.0051	
K	0.02258	6.30	0.161	
Ca	0.04990	60.00	2.99	
Mg	0.08229	42.00	3.46	
		Sum of Cations	7.75	meq/L
Cl	0.02821	21.00	0.59	
SO4	0.02082	20.00	0.42	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	336.00	5.51	
		Sum of Anions	6.52	meq/L
Balance (% difference) *			8.63	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.045	0.0016	
K	0.02258	8.80	0.225	
Ca	0.04990	160.00	7.98	
Mg	0.08229	110.00	9.05	
		Sum of Cations	19.18	meq/L
Cl	0.02821	70.00	1.97	
SO4	0.02082	60.00	1.25	
NO3	0.01613	0.07	0.00	
HCO3	0.01639	960.00	15.73	
		Sum of Anions	18.96	meq/L
Balance (% difference) *			0.57	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	1/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.10	0.156	
Ca	0.04990	120.00	5.99	
Mg	0.08229	46.00	3.79	
		Sum of Cations	11.1	meq/L
Cl	0.02821	95.00	2.68	
SO4	0.02082	38.00	0.79	
NO3	0.01613	13.00	0.21	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	10.76	meq/L
Balance (% difference) *			1.57	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.061	0.0022	
K	0.02258	8.90	0.228	
Ca	0.04990	200.00	9.98	
Mg	0.08229	97.00	7.98	
		Sum of Cations	19.85	meq/L
Cl	0.02821	26.00	0.73	
SO4	0.02082	67.00	1.40	
NO3	0.01613	4.50	0.07	
HCO3	0.01639	1020.00	16.72	
		Sum of Anions	18.9	meq/L
Balance (% difference) *			2.39	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.36	0.0131	
K	0.02258	7.20	0.184	
Ca	0.04990	160.00	7.98	
Mg	0.08229	63.00	5.18	
		Sum of Cations	14.7	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	63.00	1.31	
NO3	0.01613	8.40	0.14	
HCO3	0.01639	732.00	12.00	
		Sum of Anions	14.07	meq/L
Balance (% difference) *			2.26	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	1/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.22	0.0080	
K	0.02258	6.10	0.156	
Ca	0.04990	64.00	3.19	
Mg	0.08229	39.00	3.21	
		Sum of Cations	7.61	meq/L
Cl	0.02821	33.00	0.93	
SO4	0.02082	14.00	0.29	
NO3	0.01613	0.05	0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	7.91	meq/L
Balance (% difference) *			-1.93	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.06	0.0022	
K	0.02258	11.00	0.281	
Ca	0.04990	36.00	1.80	
Mg	0.08229	24.00	1.97	
		Sum of Cations	5.71	meq/L
Cl	0.02821	30.00	0.85	
SO4	0.02082	11.00	0.23	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.4	meq/L
Balance (% difference) *			2.75	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.00	0.153	
Ca	0.04990	140.00	6.99	
Mg	0.08229	54.00	4.44	
		Sum of Cations	12.93	meq/L
Cl	0.02821	44.00	1.24	
SO4	0.02082	40.00	0.83	
NO3	0.01613	1.00	0.02	
HCO3	0.01639	624.00	10.23	
		Sum of Anions	12.32	meq/L
Balance (% difference) *			2.44	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	1/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	50.00	2.17	
Fe	0.03581	0.35	0	
Mn	0.0364	0.28	0.0102	
K	0.02258	10.00	0.256	
Ca	0.04990	120.00	5.99	
Mg	0.08229	100.00	8.23	
		Sum of Cations	16.66	meq/L
Cl	0.02821	120.00	3.38	
SO4	0.02082	120.00	2.50	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	600.00	9.83	
		Sum of Anions	15.72	meq/L
Balance (% difference) *			2.90	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	1/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	11.00	0.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	<1.65	<0.042	
Ca	0.04990	34.00	1.70	
Mg	0.08229	32.00	2.63	
		Sum of Cations	4.85	meq/L
Cl	0.02821	4.70	0.13	
SO4	0.02082	12.00	0.25	
NO3	0.01613	3.80	0.06	
HCO3	0.01639	240.00	3.93	
		Sum of Anions	4.38	meq/L
Balance (% difference) *			5.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	1/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	40.00	1.74	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	8.30	0.212	
Ca	0.04990	110.00	5.49	
Mg	0.08229	72.00	5.92	
		Sum of Cations	13.37	meq/L
Cl	0.02821	66.00	1.86	
SO4	0.02082	66.00	1.38	
NO3	0.01613	3.00	0.05	
HCO3	0.01639	576.00	9.44	
		Sum of Anions	12.72	meq/L
Balance (% difference) *			2.46	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	1/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	9.40	0.240	
Ca	0.04990	170.00	8.48	
Mg	0.08229	89.00	7.32	
		Sum of Cations	17.35	meq/L
Cl	0.02821	26.00	0.73	
SO4	0.02082	98.00	2.04	
NO3	0.01613	7.60	0.12	
HCO3	0.01639	852.00	13.96	
		Sum of Anions	16.86	meq/L
Balance (% difference) *			1.44	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	1/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	22.00	0.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.028	0.0010	
K	0.02258	6.10	0.156	
Ca	0.04990	69.00	3.44	
Mg	0.08229	25.00	2.06	
		Sum of Cations	6.61	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	22.00	0.46	
NO3	0.01613	0.05	0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.36	meq/L
Balance (% difference) *			1.94	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	1/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	130.00	6.49	
Mg	0.08229	49.00	4.03	
		Sum of Cations	12.0	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	40.00	0.83	
NO3	0.01613	6.10	0.10	
HCO3	0.01639	552.00	9.05	
		Sum of Anions	10.97	meq/L
Balance (% difference) *			4.46	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	1/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	43.00	1.87	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.22	0.0080	
K	0.02258	9.90	0.253	
Ca	0.04990	120.00	5.99	
Mg	0.08229	88.00	7.24	
		Sum of Cations	15.36	meq/L
Cl	0.02821	100.00	2.82	
SO4	0.02082	58.00	1.21	
NO3	0.01613	0.05	0.00	
HCO3	0.01639	696.00	11.41	
		Sum of Anions	15.44	meq/L
Balance (% difference) *			-0.24	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	1/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.50	0.166	
Ca	0.04990	62.00	3.09	
Mg	0.08229	39.00	3.21	
		Sum of Cations	7.56	meq/L
Cl	0.02821	43.00	1.21	
SO4	0.02082	35.00	0.73	
NO3	0.01613	0.06	0.00	
HCO3	0.01639	324.00	5.31	
		Sum of Anions	7.25	meq/L
Balance (% difference) *			2.05	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	1/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.70	0.146	
Ca	0.04990	57.00	2.84	
Mg	0.08229	33.00	2.72	
		Sum of Cations	6.75	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	34.00	0.71	
NO3	0.01613	0.06	0.00	
HCO3	0.01639	324.00	5.31	
		Sum of Anions	7.0	meq/L
Balance (% difference) *			-1.86	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	1/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	18.00	0.78	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.30	0.136	
Ca	0.04990	100.00	4.99	
Mg	0.08229	34.00	2.80	
		Sum of Cations	8.7	meq/L
Cl	0.02821	19.00	0.54	
SO4	0.02082	69.00	1.44	
NO3	0.01613	6.50	0.10	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.57	meq/L
Balance (% difference) *			0.80	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.036	0.0013	
K	0.02258	6.90	0.176	
Ca	0.04990	130.00	6.49	
Mg	0.08229	79.00	6.50	
		Sum of Cations	14.43	meq/L
Cl	0.02821	51.00	1.44	
SO4	0.02082	89.00	1.85	
NO3	0.01613	46.00	0.74	
HCO3	0.01639	480.00	7.87	
		Sum of Anions	11.9	meq/L
Balance (% difference) *			9.59	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.40	0.189	
Ca	0.04990	76.00	3.79	
Mg	0.08229	55.00	4.53	
		Sum of Cations	10.12	meq/L
Cl	0.02821	72.00	2.03	
SO4	0.02082	28.00	0.58	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.3	meq/L
Balance (% difference) *			4.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	6.40	0.164	
Ca	0.04990	77.00	3.84	
Mg	0.08229	53.00	4.36	
		Sum of Cations	9.9	meq/L
Cl	0.02821	58.00	1.64	
SO4	0.02082	27.00	0.56	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.28	meq/L
Balance (% difference) *			3.22	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.022	0.0008	
K	0.02258	9.80	0.251	
Ca	0.04990	37.00	1.85	
Mg	0.08229	52.00	4.28	
		Sum of Cations	7.55	meq/L
Cl	0.02821	43.00	1.21	
SO4	0.02082	13.00	0.27	
NO3	0.01613	0.22	0.00	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	7.39	meq/L
Balance (% difference) *			1.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	1/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.18	0.0066	
K	0.02258	8.10	0.207	
Ca	0.04990	69.00	3.44	
Mg	0.08229	55.00	4.53	
		Sum of Cations	9.75	meq/L
Cl	0.02821	66.00	1.86	
SO4	0.02082	25.00	0.52	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.66	meq/L
Balance (% difference) *			0.46	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	1/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.00	0.153	
Ca	0.04990	73.00	3.64	
Mg	0.08229	44.00	3.62	
		Sum of Cations	8.85	meq/L
Cl	0.02821	61.00	1.72	
SO4	0.02082	38.00	0.79	
NO3	0.01613	1.30	0.02	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.63	meq/L
Balance (% difference) *			1.28	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	1/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	21.00	0.91	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.097	0.0035	
K	0.02258	11.00	0.281	
Ca	0.04990	42.00	2.10	
Mg	0.08229	32.00	2.63	
		Sum of Cations	5.93	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	7.10	0.15	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	252.00	4.13	
		Sum of Anions	5.24	meq/L
Balance (% difference) *			6.18	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	1/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.14	0.0051	
K	0.02258	10.00	0.256	
Ca	0.04990	53.00	2.64	
Mg	0.08229	67.00	5.51	
		Sum of Cations	10.33	meq/L
Cl	0.02821	65.00	1.83	
SO4	0.02082	31.00	0.65	
NO3	0.01613	<0.03	<0.00	
HCO3	0.01639	468.00	7.67	
		Sum of Anions	10.15	meq/L
Balance (% difference) *			0.89	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	1/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	4.30	0.110	
Ca	0.04990	90.00	4.49	
Mg	0.08229	46.00	3.79	
		Sum of Cations	10.04	meq/L
Cl	0.02821	45.00	1.27	
SO4	0.02082	54.00	1.13	
NO3	0.01613	3.80	0.06	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.34	meq/L
Balance (% difference) *			3.62	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	1/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.20	0.133	
Ca	0.04990	75.00	3.74	
Mg	0.08229	43.00	3.54	
		Sum of Cations	8.72	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	40.00	0.83	
NO3	0.01613	1.50	0.02	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.7	meq/L
Balance (% difference) *			0.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	1/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.30	0.161	
Ca	0.04990	160.00	7.98	
Mg	0.08229	60.00	4.94	
		Sum of Cations	14.48	meq/L
Cl	0.02821	5.50	0.16	
SO4	0.02082	190.00	3.96	
NO3	0.01613	4.50	0.07	
HCO3	0.01639	540.00	8.85	
		Sum of Anions	13.04	meq/L
Balance (% difference) *			5.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	0.36	0	
Mn	0.0364	0.11	0.0040	
K	0.02258	6.10	0.156	
Ca	0.04990	78.00	3.89	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.35	meq/L
Cl	0.02821	57.00	1.61	
SO4	0.02082	44.00	0.92	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	8.43	meq/L
Balance (% difference) *			5.20	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	0.32	0	
Mn	0.0364	0.15	0.0055	
K	0.02258	6.30	0.161	
Ca	0.04990	60.00	2.99	
Mg	0.08229	40.00	3.29	
		Sum of Cations	7.5	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	21.00	0.44	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	348.00	5.70	
		Sum of Anions	6.79	meq/L
Balance (% difference) *			4.94	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	4/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.044	0.0016	
K	0.02258	8.80	0.225	
Ca	0.04990	170.00	8.48	
Mg	0.08229	110.00	9.05	
		Sum of Cations	19.7	meq/L
Cl	0.02821	66.00	1.86	
SO4	0.02082	63.00	1.31	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	984.00	16.13	
		Sum of Anions	19.3	meq/L
Balance (% difference) *			1.07	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	130.00	6.49	
Mg	0.08229	51.00	4.20	
		Sum of Cations	12.07	meq/L
Cl	0.02821	95.00	2.68	
SO4	0.02082	41.00	0.85	
NO3	0.01613	12.00	0.19	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	10.8	meq/L
Balance (% difference) *			5.50	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	4/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	40.00	1.74	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.062	0.0023	
K	0.02258	9.20	0.235	
Ca	0.04990	200.00	9.98	
Mg	0.08229	97.00	7.98	
		Sum of Cations	19.94	meq/L
Cl	0.02821	<0.45	<0.01	
SO4	0.02082	67.00	1.40	
NO3	0.01613	4.00	0.06	
HCO3	0.01639	1020.00	16.72	
		Sum of Anions	18.2	meq/L
Balance (% difference) *			4.59	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	4/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.39	0.0142	
K	0.02258	7.80	0.199	
Ca	0.04990	170.00	8.48	
Mg	0.08229	67.00	5.51	
		Sum of Cations	15.7	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	64.00	1.33	
NO3	0.01613	7.80	0.13	
HCO3	0.01639	732.00	12.00	
		Sum of Anions	14.1	meq/L
Balance (% difference) *			5.32	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.28	0.0102	
K	0.02258	6.60	0.169	
Ca	0.04990	70.00	3.49	
Mg	0.08229	44.00	3.62	
		Sum of Cations	8.42	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	16.00	0.33	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.78	meq/L
Balance (% difference) *			3.95	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.072	0.0026	
K	0.02258	10.00	0.256	
Ca	0.04990	39.00	1.95	
Mg	0.08229	28.00	2.30	
		Sum of Cations	5.94	meq/L
Cl	0.02821	31.00	0.87	
SO4	0.02082	13.00	0.27	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.47	meq/L
Balance (% difference) *			4.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.30	0.161	
Ca	0.04990	150.00	7.49	
Mg	0.08229	56.00	4.61	
		Sum of Cations	13.6	meq/L
Cl	0.02821	46.00	1.30	
SO4	0.02082	44.00	0.92	
NO3	0.01613	1.10	0.02	
HCO3	0.01639	624.00	10.23	
		Sum of Anions	12.46	meq/L
Balance (% difference) *			4.39	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	48.00	2.09	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.28	0.0102	
K	0.02258	10.00	0.256	
Ca	0.04990	130.00	6.49	
Mg	0.08229	100.00	8.23	
		Sum of Cations	17.07	meq/L
Cl	0.02821	120.00	3.38	
SO4	0.02082	140.00	2.92	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	600.00	9.83	
		Sum of Anions	16.14	meq/L
Balance (% difference) *			2.81	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	9.90	0.43	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	<1.65	<0.042	
Ca	0.04990	32.00	1.60	
Mg	0.08229	29.00	2.39	
		Sum of Cations	4.46	meq/L
Cl	0.02821	4.60	0.13	
SO4	0.02082	9.90	0.21	
NO3	0.01613	1.70	0.03	
HCO3	0.01639	228.00	3.74	
		Sum of Anions	4.1	meq/L
Balance (% difference) *			4.16	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	4/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	43.00	1.87	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	8.60	0.220	
Ca	0.04990	120.00	5.99	
Mg	0.08229	76.00	6.25	
		Sum of Cations	14.33	meq/L
Cl	0.02821	66.00	1.86	
SO4	0.02082	65.00	1.35	
NO3	0.01613	3.00	0.05	
HCO3	0.01639	588.00	9.64	
		Sum of Anions	12.9	meq/L
Balance (% difference) *			5.26	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	4/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	9.70	0.248	
Ca	0.04990	180.00	8.98	
Mg	0.08229	93.00	7.65	
		Sum of Cations	18.28	meq/L
Cl	0.02821	27.00	0.76	
SO4	0.02082	110.00	2.29	
NO3	0.01613	6.60	0.11	
HCO3	0.01639	852.00	13.96	
		Sum of Anions	17.12	meq/L
Balance (% difference) *			3.26	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	22.00	0.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.046	0.0017	
K	0.02258	6.20	0.159	
Ca	0.04990	74.00	3.69	
Mg	0.08229	27.00	2.22	
		Sum of Cations	7.03	meq/L
Cl	0.02821	37.00	1.04	
SO4	0.02082	24.00	0.50	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	288.00	4.72	
		Sum of Anions	6.26	meq/L
Balance (% difference) *			5.77	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.20	0.159	
Ca	0.04990	130.00	6.49	
Mg	0.08229	49.00	4.03	
		Sum of Cations	11.9	meq/L
Cl	0.02821	39.00	1.10	
SO4	0.02082	43.00	0.90	
NO3	0.01613	5.70	0.09	
HCO3	0.01639	528.00	8.65	
		Sum of Anions	10.74	meq/L
Balance (% difference) *			5.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	4/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	48.00	2.09	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.24	0.0087	
K	0.02258	11.00	0.281	
Ca	0.04990	130.00	6.49	
Mg	0.08229	98.00	8.06	
		Sum of Cations	16.93	meq/L
Cl	0.02821	100.00	2.82	
SO4	0.02082	63.00	1.31	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	696.00	11.41	
		Sum of Anions	15.54	meq/L
Balance (% difference) *			4.28	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	4/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.60	0.169	
Ca	0.04990	67.00	3.34	
Mg	0.08229	41.00	3.37	
		Sum of Cations	8.06	meq/L
Cl	0.02821	45.00	1.27	
SO4	0.02082	38.00	0.79	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	348.00	5.70	
		Sum of Anions	7.77	meq/L
Balance (% difference) *			1.87	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	4/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.038	0.0014	
K	0.02258	7.00	0.179	
Ca	0.04990	140.00	6.99	
Mg	0.08229	83.00	6.83	
		Sum of Cations	15.35	meq/L
Cl	0.02821	56.00	1.58	
SO4	0.02082	98.00	2.04	
NO3	0.01613	44.00	0.71	
HCO3	0.01639	480.00	7.87	
		Sum of Anions	12.2	meq/L
Balance (% difference) *			11.43	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.50	0.192	
Ca	0.04990	79.00	3.94	
Mg	0.08229	55.00	4.53	
		Sum of Cations	10.28	meq/L
Cl	0.02821	72.00	2.03	
SO4	0.02082	31.00	0.65	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.56	meq/L
Balance (% difference) *			3.60	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.21	0.0076	
K	0.02258	6.80	0.174	
Ca	0.04990	82.00	4.09	
Mg	0.08229	53.00	4.36	
		Sum of Cations	10.16	meq/L
Cl	0.02821	60.00	1.69	
SO4	0.02082	30.00	0.63	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.6	meq/L
Balance (% difference) *			2.85	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	4/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	0.37	0	
Mn	0.0364	0.05	0.0018	
K	0.02258	11.00	0.281	
Ca	0.04990	39.00	1.95	
Mg	0.08229	56.00	4.61	
		Sum of Cations	8.23	meq/L
Cl	0.02821	43.00	1.21	
SO4	0.02082	17.00	0.35	
NO3	0.01613	0.37	0.01	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	7.67	meq/L
Balance (% difference) *			3.52	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	4/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	8.60	0.220	
Ca	0.04990	74.00	3.69	
Mg	0.08229	62.00	5.10	
		Sum of Cations	10.67	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	27.00	0.56	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	9.93	meq/L
Balance (% difference) *			3.63	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	4/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.10	0.156	
Ca	0.04990	75.00	3.74	
Mg	0.08229	47.00	3.87	
		Sum of Cations	9.25	meq/L
Cl	0.02821	62.00	1.75	
SO4	0.02082	40.00	0.83	
NO3	0.01613	1.20	0.02	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.7	meq/L
Balance (% difference) *			3.05	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	4/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	20.00	0.87	
Fe	0.03581	0.4	0	
Mn	0.0364	0.099	0.0036	
K	0.02258	9.40	0.240	
Ca	0.04990	43.00	2.15	
Mg	0.08229	31.00	2.55	
		Sum of Cations	5.81	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	14.00	0.29	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	276.00	4.52	
		Sum of Anions	5.78	meq/L
Balance (% difference) *			0.31	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	4/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	10.00	0.256	
Ca	0.04990	58.00	2.89	
Mg	0.08229	71.00	5.84	
		Sum of Cations	10.96	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	35.00	0.73	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	468.00	7.67	
		Sum of Anions	10.3	meq/L
Balance (% difference) *			3.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	4/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	4.30	0.110	
Ca	0.04990	93.00	4.64	
Mg	0.08229	50.00	4.11	
		Sum of Cations	10.43	meq/L
Cl	0.02821	47.00	1.33	
SO4	0.02082	56.00	1.17	
NO3	0.01613	3.50	0.06	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.43	meq/L
Balance (% difference) *			5.03	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	4/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.60	0.143	
Ca	0.04990	84.00	4.19	
Mg	0.08229	47.00	3.87	
		Sum of Cations	9.64	meq/L
Cl	0.02821	56.00	1.58	
SO4	0.02082	43.00	0.90	
NO3	0.01613	1.40	0.02	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.6	meq/L
Balance (% difference) *			5.72	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	4/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.70	0.146	
Ca	0.04990	150.00	7.49	
Mg	0.08229	56.00	4.61	
		Sum of Cations	13.37	meq/L
Cl	0.02821	6.20	0.17	
SO4	0.02082	180.00	3.75	
NO3	0.01613	4.90	0.08	
HCO3	0.01639	516.00	8.46	
		Sum of Anions	12.46	meq/L
Balance (% difference) *			3.52	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.80	0.148	
Ca	0.04990	140.00	6.99	
Mg	0.08229	53.00	4.36	
		Sum of Cations	12.63	meq/L
Cl	0.02821	3.90	0.11	
SO4	0.02082	140.00	2.92	
NO3	0.01613	3.80	0.06	
HCO3	0.01639	468.00	7.67	
		Sum of Anions	10.76	meq/L
Balance (% difference) *			7.99	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	7/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	0.36	0	
Mn	0.0364	0.11	0.0040	
K	0.02258	6.00	0.153	
Ca	0.04990	75.00	3.74	
Mg	0.08229	45.00	3.70	
		Sum of Cations	9.0	meq/L
Cl	0.02821	59.00	1.66	
SO4	0.02082	43.00	0.90	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.66	meq/L
Balance (% difference) *			1.91	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	7/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	0.57	0	
Mn	0.0364	0.17	0.0062	
K	0.02258	6.90	0.176	
Ca	0.04990	66.00	3.29	
Mg	0.08229	45.00	3.70	
		Sum of Cations	8.35	meq/L
Cl	0.02821	20.00	0.56	
SO4	0.02082	19.00	0.40	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	7.06	meq/L
Balance (% difference) *			8.41	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	7/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	46.00	2.00	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.048	0.0017	
K	0.02258	9.40	0.240	
Ca	0.04990	180.00	8.98	
Mg	0.08229	110.00	9.05	
		Sum of Cations	20.28	meq/L
Cl	0.02821	72.00	2.03	
SO4	0.02082	68.00	1.42	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	1008.00	16.52	
		Sum of Anions	19.97	meq/L
Balance (% difference) *			0.77	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	7/28/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	130.00	6.49	
Mg	0.08229	49.00	4.03	
		Sum of Cations	11.94	meq/L
Cl	0.02821	100.00	2.82	
SO4	0.02082	40.00	0.83	
NO3	0.01613	12.00	0.19	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	10.93	meq/L
Balance (% difference) *			4.45	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	7/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	41.00	1.78	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.065	0.0024	
K	0.02258	9.60	0.246	
Ca	0.04990	210.00	10.48	
Mg	0.08229	100.00	8.23	
		Sum of Cations	20.74	meq/L
Cl	0.02821	25.00	0.71	
SO4	0.02082	67.00	1.40	
NO3	0.01613	4.60	0.07	
HCO3	0.01639	996.00	16.32	
		Sum of Anions	18.5	meq/L
Balance (% difference) *			5.71	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	7/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.46	0.0167	
K	0.02258	8.00	0.205	
Ca	0.04990	180.00	8.98	
Mg	0.08229	75.00	6.17	
		Sum of Cations	16.9	meq/L
Cl	0.02821	20.00	0.56	
SO4	0.02082	62.00	1.29	
NO3	0.01613	8.20	0.13	
HCO3	0.01639	732.00	12.00	
		Sum of Anions	13.98	meq/L
Balance (% difference) *			9.43	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	7/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.22	0.0080	
K	0.02258	6.50	0.166	
Ca	0.04990	69.00	3.44	
Mg	0.08229	43.00	3.54	
		Sum of Cations	8.29	meq/L
Cl	0.02821	31.00	0.87	
SO4	0.02082	14.00	0.29	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.66	meq/L
Balance (% difference) *			3.95	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.077	0.0028	
K	0.02258	11.00	0.281	
Ca	0.04990	40.00	2.00	
Mg	0.08229	27.00	2.22	
		Sum of Cations	5.98	meq/L
Cl	0.02821	28.00	0.79	
SO4	0.02082	11.00	0.23	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.35	meq/L
Balance (% difference) *			5.60	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	7.00	0.179	
Ca	0.04990	160.00	7.98	
Mg	0.08229	61.00	5.02	
		Sum of Cations	14.66	meq/L
Cl	0.02821	42.00	1.18	
SO4	0.02082	42.00	0.88	
NO3	0.01613	1.30	0.02	
HCO3	0.01639	648.00	10.62	
		Sum of Anions	12.7	meq/L
Balance (% difference) *			7.17	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	48.00	2.09	
Fe	0.03581	0.31	0	
Mn	0.0364	0.27	0.0098	
K	0.02258	10.00	0.256	
Ca	0.04990	130.00	6.49	
Mg	0.08229	100.00	8.23	
		Sum of Cations	17.07	meq/L
Cl	0.02821	140.00	3.95	
SO4	0.02082	170.00	3.54	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	600.00	9.83	
		Sum of Anions	17.33	meq/L
Balance (% difference) *			-0.74	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	11.00	0.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	<1.65	<0.042	
Ca	0.04990	32.00	1.60	
Mg	0.08229	29.00	2.39	
		Sum of Cations	4.5	meq/L
Cl	0.02821	3.60	0.10	
SO4	0.02082	7.30	0.15	
NO3	0.01613	1.20	0.02	
HCO3	0.01639	228.00	3.74	
		Sum of Anions	4.01	meq/L
Balance (% difference) *			5.81	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	7/28/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	43.00	1.87	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	8.60	0.220	
Ca	0.04990	110.00	5.49	
Mg	0.08229	73.00	6.01	
		Sum of Cations	13.6	meq/L
Cl	0.02821	70.00	1.97	
SO4	0.02082	67.00	1.40	
NO3	0.01613	3.20	0.05	
HCO3	0.01639	588.00	9.64	
		Sum of Anions	13.06	meq/L
Balance (% difference) *			1.98	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	7/28/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	10.00	0.256	
Ca	0.04990	180.00	8.98	
Mg	0.08229	92.00	7.57	
		Sum of Cations	18.2	meq/L
Cl	0.02821	26.00	0.73	
SO4	0.02082	120.00	2.50	
NO3	0.01613	6.50	0.10	
HCO3	0.01639	840.00	13.77	
		Sum of Anions	17.1	meq/L
Balance (% difference) *			3.10	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	21.00	0.91	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.027	0.0010	
K	0.02258	6.20	0.159	
Ca	0.04990	73.00	3.64	
Mg	0.08229	27.00	2.22	
		Sum of Cations	6.94	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	23.00	0.48	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.36	meq/L
Balance (% difference) *			4.38	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.30	0.161	
Ca	0.04990	130.00	6.49	
Mg	0.08229	50.00	4.11	
		Sum of Cations	12.02	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	42.00	0.88	
NO3	0.01613	6.10	0.10	
HCO3	0.01639	528.00	8.65	
		Sum of Anions	10.61	meq/L
Balance (% difference) *			6.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	7/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	47.00	2.04	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.24	0.0087	
K	0.02258	11.00	0.281	
Ca	0.04990	130.00	6.49	
Mg	0.08229	96.00	7.90	
		Sum of Cations	16.72	meq/L
Cl	0.02821	100.00	2.82	
SO4	0.02082	63.00	1.31	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	696.00	11.41	
		Sum of Anions	15.54	meq/L
Balance (% difference) *			3.66	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	7/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.80	0.174	
Ca	0.04990	68.00	3.39	
Mg	0.08229	41.00	3.37	
		Sum of Cations	8.12	meq/L
Cl	0.02821	49.00	1.38	
SO4	0.02082	38.00	0.79	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	336.00	5.51	
		Sum of Anions	7.68	meq/L
Balance (% difference) *			2.75	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.30	0.161	
Ca	0.04990	63.00	3.14	
Mg	0.08229	37.00	3.04	
		Sum of Cations	7.52	meq/L
Cl	0.02821	33.00	0.93	
SO4	0.02082	34.00	0.71	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.56	meq/L
Balance (% difference) *			6.87	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	18.00	0.78	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.60	0.143	
Ca	0.04990	110.00	5.49	
Mg	0.08229	36.00	2.96	
		Sum of Cations	9.38	meq/L
Cl	0.02821	18.00	0.51	
SO4	0.02082	67.00	1.40	
NO3	0.01613	5.70	0.09	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.49	meq/L
Balance (% difference) *			5.00	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	7/27/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.024	0.0009	
K	0.02258	7.00	0.179	
Ca	0.04990	130.00	6.49	
Mg	0.08229	78.00	6.42	
		Sum of Cations	14.4	meq/L
Cl	0.02821	59.00	1.66	
SO4	0.02082	95.00	1.98	
NO3	0.01613	42.00	0.68	
HCO3	0.01639	480.00	7.87	
		Sum of Anions	12.19	meq/L
Balance (% difference) *			8.29	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.60	0.194	
Ca	0.04990	76.00	3.79	
Mg	0.08229	55.00	4.53	
		Sum of Cations	10.04	meq/L
Cl	0.02821	68.00	1.92	
SO4	0.02082	29.00	0.60	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.4	meq/L
Balance (% difference) *			3.26	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.21	0.0076	
K	0.02258	6.90	0.176	
Ca	0.04990	80.00	3.99	
Mg	0.08229	55.00	4.53	
		Sum of Cations	10.22	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	28.00	0.58	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.22	meq/L
Balance (% difference) *			5.19	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	7/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	11.00	0.281	
Ca	0.04990	38.00	1.90	
Mg	0.08229	57.00	4.69	
		Sum of Cations	8.09	meq/L
Cl	0.02821	40.00	1.13	
SO4	0.02082	17.00	0.35	
NO3	0.01613	0.38	0.01	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	7.78	meq/L
Balance (% difference) *			1.92	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	7/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	8.00	0.205	
Ca	0.04990	70.00	3.49	
Mg	0.08229	61.00	5.02	
		Sum of Cations	10.25	meq/L
Cl	0.02821	62.00	1.75	
SO4	0.02082	25.00	0.52	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.55	meq/L
Balance (% difference) *			3.53	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	7/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.80	0.148	
Ca	0.04990	74.00	3.69	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.14	meq/L
Cl	0.02821	57.00	1.61	
SO4	0.02082	38.00	0.79	
NO3	0.01613	1.20	0.02	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	8.52	meq/L
Balance (% difference) *			3.54	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	43.00	1.87	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.15	0.0055	
K	0.02258	9.70	0.248	
Ca	0.04990	54.00	2.69	
Mg	0.08229	67.00	5.51	
		Sum of Cations	10.33	meq/L
Cl	0.02821	61.00	1.72	
SO4	0.02082	33.00	0.69	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	9.88	meq/L
Balance (% difference) *			2.22	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	4.40	0.113	
Ca	0.04990	94.00	4.69	
Mg	0.08229	52.00	4.28	
		Sum of Cations	10.7	meq/L
Cl	0.02821	44.00	1.24	
SO4	0.02082	53.00	1.10	
NO3	0.01613	3.50	0.06	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.29	meq/L
Balance (% difference) *			7.04	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	7/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.80	0.148	
Ca	0.04990	83.00	4.14	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.72	meq/L
Cl	0.02821	51.00	1.44	
SO4	0.02082	40.00	0.83	
NO3	0.01613	1.40	0.02	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.78	meq/L
Balance (% difference) *			5.05	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	C1S
Sample Date	10/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	23.00	1.00	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.30	0.136	
Ca	0.04990	120.00	5.99	
Mg	0.08229	47.00	3.87	
		Sum of Cations	11.0	meq/L
Cl	0.02821	3.20	0.09	
SO4	0.02082	150.00	3.13	
NO3	0.01613	3.10	0.05	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	10.35	meq/L
Balance (% difference) *			3.03	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581	0.46	0	
Mn	0.0364	0.15	0.0055	
K	0.02258	7.00	0.179	
Ca	0.04990	63.00	3.14	
Mg	0.08229	43.00	3.54	
		Sum of Cations	8.0	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	21.00	0.44	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	7.16	meq/L
Balance (% difference) *			5.55	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	10/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	49.00	2.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.049	0.0018	
K	0.02258	9.80	0.251	
Ca	0.04990	180.00	8.98	
Mg	0.08229	120.00	9.87	
		Sum of Cations	21.24	meq/L
Cl	0.02821	70.00	1.97	
SO4	0.02082	72.00	1.50	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	996.00	16.32	
		Sum of Anions	19.8	meq/L
Balance (% difference) *			3.51	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1S
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	28.00	1.22	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	130.00	6.49	
Mg	0.08229	48.00	3.95	
		Sum of Cations	11.82	meq/L
Cl	0.02821	93.00	2.62	
SO4	0.02082	40.00	0.83	
NO3	0.01613	12.00	0.19	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	10.53	meq/L
Balance (% difference) *			5.75	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	42.00	1.83	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.067	0.0024	
K	0.02258	9.90	0.253	
Ca	0.04990	220.00	10.98	
Mg	0.08229	110.00	9.05	
		Sum of Cations	22.1	meq/L
Cl	0.02821	28.00	0.79	
SO4	0.02082	73.00	1.52	
NO3	0.01613	3.80	0.06	
HCO3	0.01639	996.00	16.32	
		Sum of Anions	18.7	meq/L
Balance (% difference) *			8.37	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.47	0.0171	
K	0.02258	8.50	0.217	
Ca	0.04990	180.00	8.98	
Mg	0.08229	75.00	6.17	
		Sum of Cations	16.95	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	68.00	1.42	
NO3	0.01613	7.70	0.12	
HCO3	0.01639	720.00	11.80	
		Sum of Anions	13.96	meq/L
Balance (% difference) *			9.68	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.26	0.0095	
K	0.02258	6.40	0.164	
Ca	0.04990	68.00	3.39	
Mg	0.08229	41.00	3.37	
		Sum of Cations	8.03	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	16.00	0.33	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.78	meq/L
Balance (% difference) *			1.54	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.072	0.0026	
K	0.02258	11.00	0.281	
Ca	0.04990	40.00	2.00	
Mg	0.08229	28.00	2.30	
		Sum of Cations	6.11	meq/L
Cl	0.02821	32.00	0.90	
SO4	0.02082	13.00	0.27	
NO3	0.01613	<0.20	<0.00	
HCO3	0.01639	264.00	4.33	
		Sum of Anions	5.5	meq/L
Balance (% difference) *			5.20	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.30	0.161	
Ca	0.04990	150.00	7.49	
Mg	0.08229	56.00	4.61	
		Sum of Cations	13.56	meq/L
Cl	0.02821	46.00	1.30	
SO4	0.02082	45.00	0.94	
NO3	0.01613	1.40	0.02	
HCO3	0.01639	624.00	10.23	
		Sum of Anions	12.48	meq/L
Balance (% difference) *			4.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	50.00	2.17	
Fe	0.03581	0.34	0	
Mn	0.0364	0.3	0.0109	
K	0.02258	10.00	0.256	
Ca	0.04990	130.00	6.49	
Mg	0.08229	100.00	8.23	
		Sum of Cations	17.16	meq/L
Cl	0.02821	120.00	3.38	
SO4	0.02082	150.00	3.13	
NO3	0.01613	<0.20	<0.00	
HCO3	0.01639	600.00	9.83	
		Sum of Anions	16.35	meq/L
Balance (% difference) *			2.42	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1SR
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	12.00	0.52	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	<1.65	<0.042	
Ca	0.04990	36.00	1.80	
Mg	0.08229	32.00	2.63	
		Sum of Cations	4.99	meq/L
Cl	0.02821	3.60	0.10	
SO4	0.02082	10.00	0.21	
NO3	0.01613	2.60	0.04	
HCO3	0.01639	240.00	3.93	
		Sum of Anions	4.285	meq/L
Balance (% difference) *			7.64	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	10/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	43.00	1.87	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	9.00	0.230	
Ca	0.04990	110.00	5.49	
Mg	0.08229	76.00	6.25	
		Sum of Cations	13.84	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	68.00	1.42	
NO3	0.01613	3.10	0.05	
HCO3	0.01639	564.00	9.24	
		Sum of Anions	12.6	meq/L
Balance (% difference) *			4.71	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	10/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	10.00	0.256	
Ca	0.04990	180.00	8.98	
Mg	0.08229	93.00	7.65	
		Sum of Cations	18.33	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	110.00	2.29	
NO3	0.01613	5.60	0.09	
HCO3	0.01639	816.00	13.37	
		Sum of Anions	16.38	meq/L
Balance (% difference) *			5.62	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.043	0.0016	
K	0.02258	6.80	0.174	
Ca	0.04990	78.00	3.89	
Mg	0.08229	29.00	2.39	
		Sum of Cations	7.5	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	25.00	0.52	
NO3	0.01613	<0.20	<0.00	
HCO3	0.01639	288.00	4.72	
		Sum of Anions	6.32	meq/L
Balance (% difference) *			8.56	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.70	0.171	
Ca	0.04990	140.00	6.99	
Mg	0.08229	52.00	4.28	
		Sum of Cations	12.79	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	45.00	0.94	
NO3	0.01613	5.70	0.09	
HCO3	0.01639	540.00	8.85	
		Sum of Anions	10.95	meq/L
Balance (% difference) *			7.73	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	10/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	49.00	2.13	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.23	0.0084	
K	0.02258	11.00	0.281	
Ca	0.04990	130.00	6.49	
Mg	0.08229	97.00	7.98	
		Sum of Cations	16.9	meq/L
Cl	0.02821	110.00	3.10	
SO4	0.02082	66.00	1.38	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	684.00	11.21	
		Sum of Anions	15.7	meq/L
Balance (% difference) *			3.69	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5S
Sample Date	10/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.80	0.174	
Ca	0.04990	67.00	3.34	
Mg	0.08229	41.00	3.37	
		Sum of Cations	8.07	meq/L
Cl	0.02821	46.00	1.30	
SO4	0.02082	39.00	0.81	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	336.00	5.51	
		Sum of Anions	7.62	meq/L
Balance (% difference) *			2.86	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.40	0.164	
Ca	0.04990	63.00	3.14	
Mg	0.08229	38.00	3.13	
		Sum of Cations	7.61	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	38.00	0.79	
NO3	0.01613	<0.20	<0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.78	meq/L
Balance (% difference) *			5.74	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	19.00	0.83	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.00	0.153	
Ca	0.04990	110.00	5.49	
Mg	0.08229	38.00	3.13	
		Sum of Cations	9.6	meq/L
Cl	0.02821	19.00	0.54	
SO4	0.02082	71.00	1.48	
NO3	0.01613	5.50	0.09	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.4	meq/L
Balance (% difference) *			6.67	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	10/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.021	0.0008	
K	0.02258	7.30	0.187	
Ca	0.04990	140.00	6.99	
Mg	0.08229	82.00	6.75	
		Sum of Cations	15.3	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	100.00	2.08	
NO3	0.01613	41.00	0.66	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	11.77	meq/L
Balance (% difference) *			13.09	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	7.40	0.189	
Ca	0.04990	78.00	3.89	
Mg	0.08229	54.00	4.44	
		Sum of Cations	10.1	meq/L
Cl	0.02821	74.00	2.09	
SO4	0.02082	32.00	0.67	
NO3	0.01613	<0.20	<0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.44	meq/L
Balance (% difference) *			3.34	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	10/23/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	34.00	1.48	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	6.40	0.164	
Ca	0.04990	79.00	3.94	
Mg	0.08229	51.00	4.20	
		Sum of Cations	9.79	meq/L
Cl	0.02821	61.00	1.72	
SO4	0.02082	31.00	0.65	
NO3	0.01613	<0.20	<0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	9.25	meq/L
Balance (% difference) *			2.81	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S7
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581	0.76	0	
Mn	0.0364	0.092	0.0033	
K	0.02258	11.00	0.281	
Ca	0.04990	38.00	1.90	
Mg	0.08229	58.00	4.77	
		Sum of Cations	8.3	meq/L
Cl	0.02821	44.00	1.24	
SO4	0.02082	17.00	0.35	
NO3	0.01613	0.33	0.01	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	7.5	meq/L
Balance (% difference) *			5.07	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1D
Sample Date	10/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	37.00	1.61	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.2	0.0073	
K	0.02258	8.40	0.215	
Ca	0.04990	73.00	3.64	
Mg	0.08229	61.00	5.02	
		Sum of Cations	10.5	meq/L
Cl	0.02821	68.00	1.92	
SO4	0.02082	27.00	0.56	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.76	meq/L
Balance (% difference) *			3.63	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	SE1S
Sample Date	10/25/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	6.10	0.156	
Ca	0.04990	76.00	3.79	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.33	meq/L
Cl	0.02821	63.00	1.78	
SO4	0.02082	41.00	0.85	
NO3	0.01613	1.20	0.02	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	8.55	meq/L
Balance (% difference) *			4.38	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	STP
Sample Date	10/26/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581	0.34	0	
Mn	0.0364	0.087	0.0032	
K	0.02258	11.00	0.281	
Ca	0.04990	46.00	2.30	
Mg	0.08229	35.00	2.88	
		Sum of Cations	6.5	meq/L
Cl	0.02821	33.00	0.93	
SO4	0.02082	14.00	0.29	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	276.00	4.52	
		Sum of Anions	5.75	meq/L
Balance (% difference) *			6.18	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W1D
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581	<0.15	<0	
Mn	0.0364	0.16	0.0058	
K	0.02258	10.00	0.256	
Ca	0.04990	58.00	2.89	
Mg	0.08229	72.00	5.92	
		Sum of Cations	11.04	meq/L
Cl	0.02821	67.00	1.89	
SO4	0.02082	36.00	0.75	
NO3	0.01613	<0.08	<0.00	
HCO3	0.01639	456.00	7.47	
		Sum of Anions	10.11	meq/L
Balance (% difference) *			4.37	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	W2S
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	4.60	0.118	
Ca	0.04990	92.00	4.59	
Mg	0.08229	50.00	4.11	
		Sum of Cations	10.26	meq/L
Cl	0.02821	48.00	1.35	
SO4	0.02082	57.00	1.19	
NO3	0.01613	3.70	0.06	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.68	meq/L
Balance (% difference) *			2.90	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	10/24/2017

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581	<0.15	<0	
Mn	0.0364	<0.01	<0.0004	
K	0.02258	5.70	0.146	
Ca	0.04990	81.00	4.04	
Mg	0.08229	46.00	3.79	
		Sum of Cations	9.37	meq/L
Cl	0.02821	56.00	1.58	
SO4	0.02082	44.00	0.92	
NO3	0.01613	1.40	0.02	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.81	meq/L
Balance (% difference) *			3.04	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Table C1 - pH Times Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

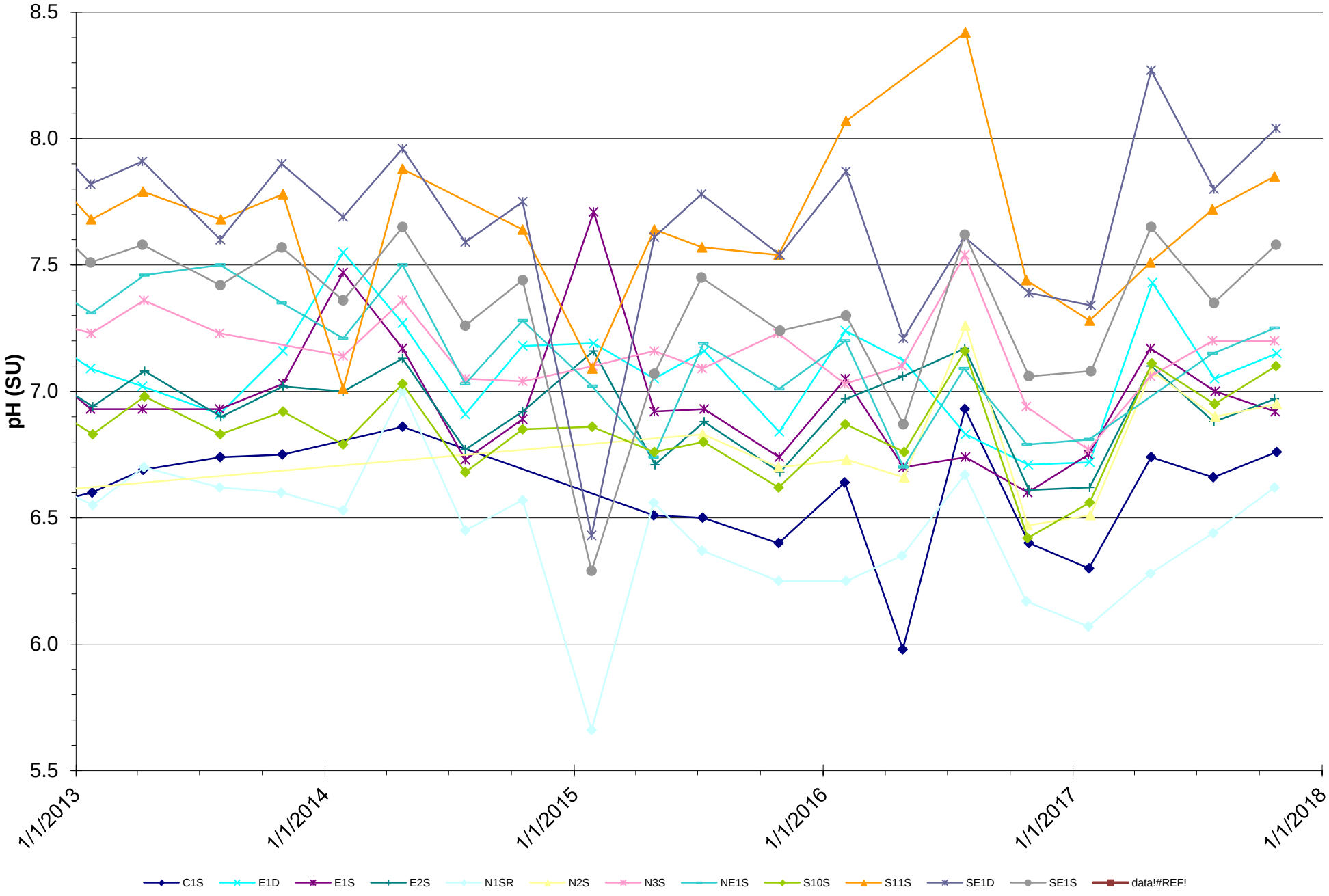


Table C2 - pH Times Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

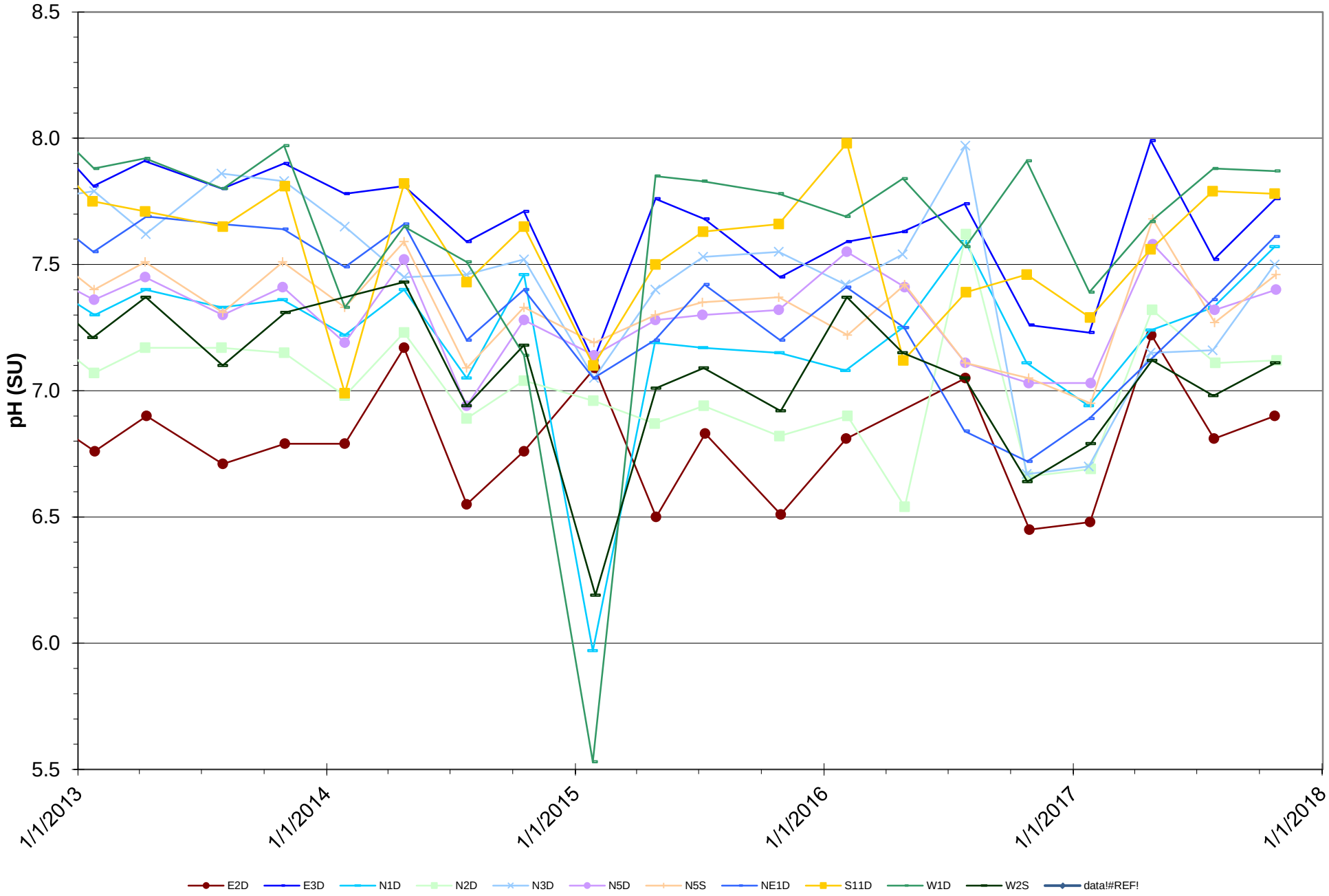


Table C3 - pH Times Series - Pumping Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

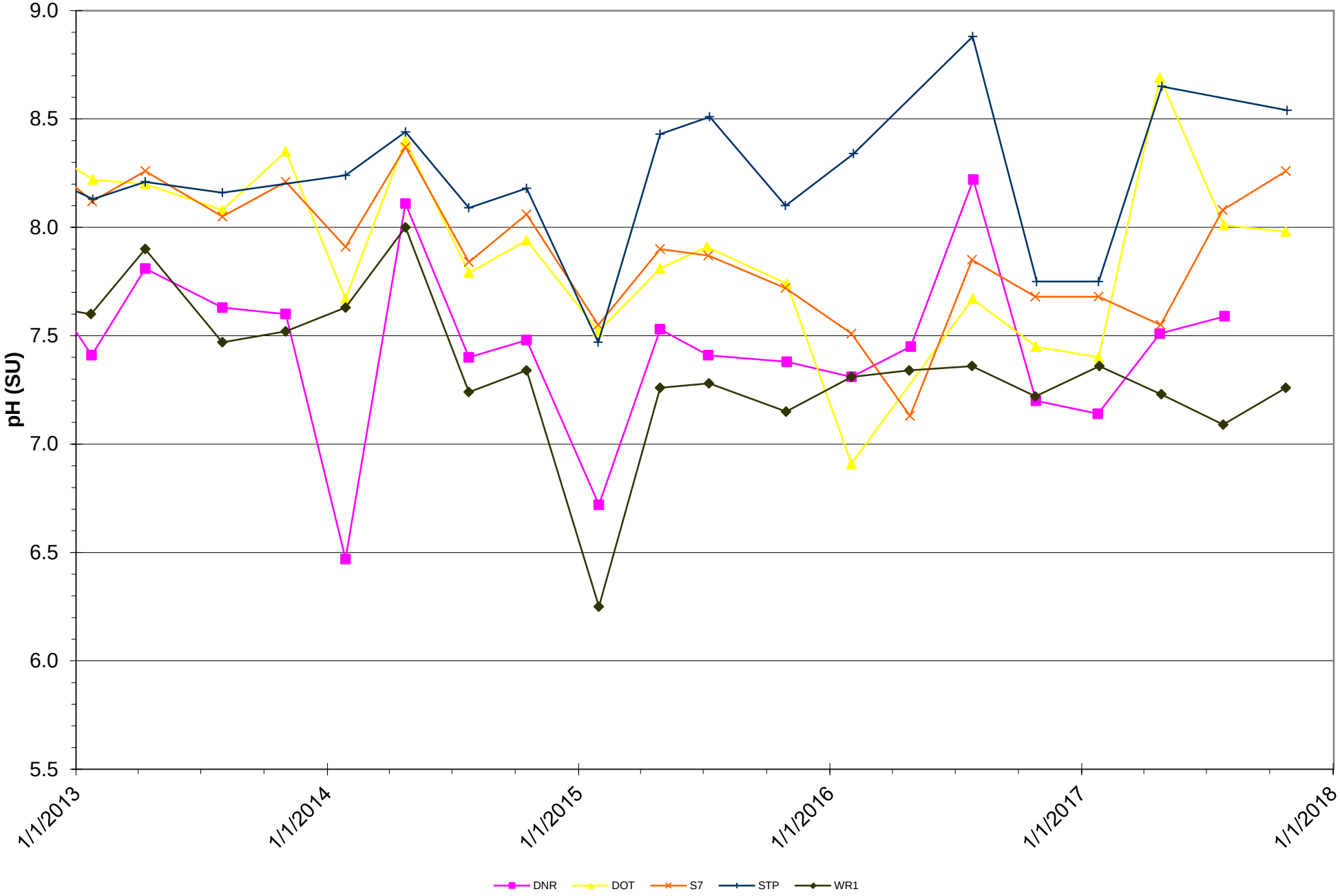


Table C4 - Specific Conductivity Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

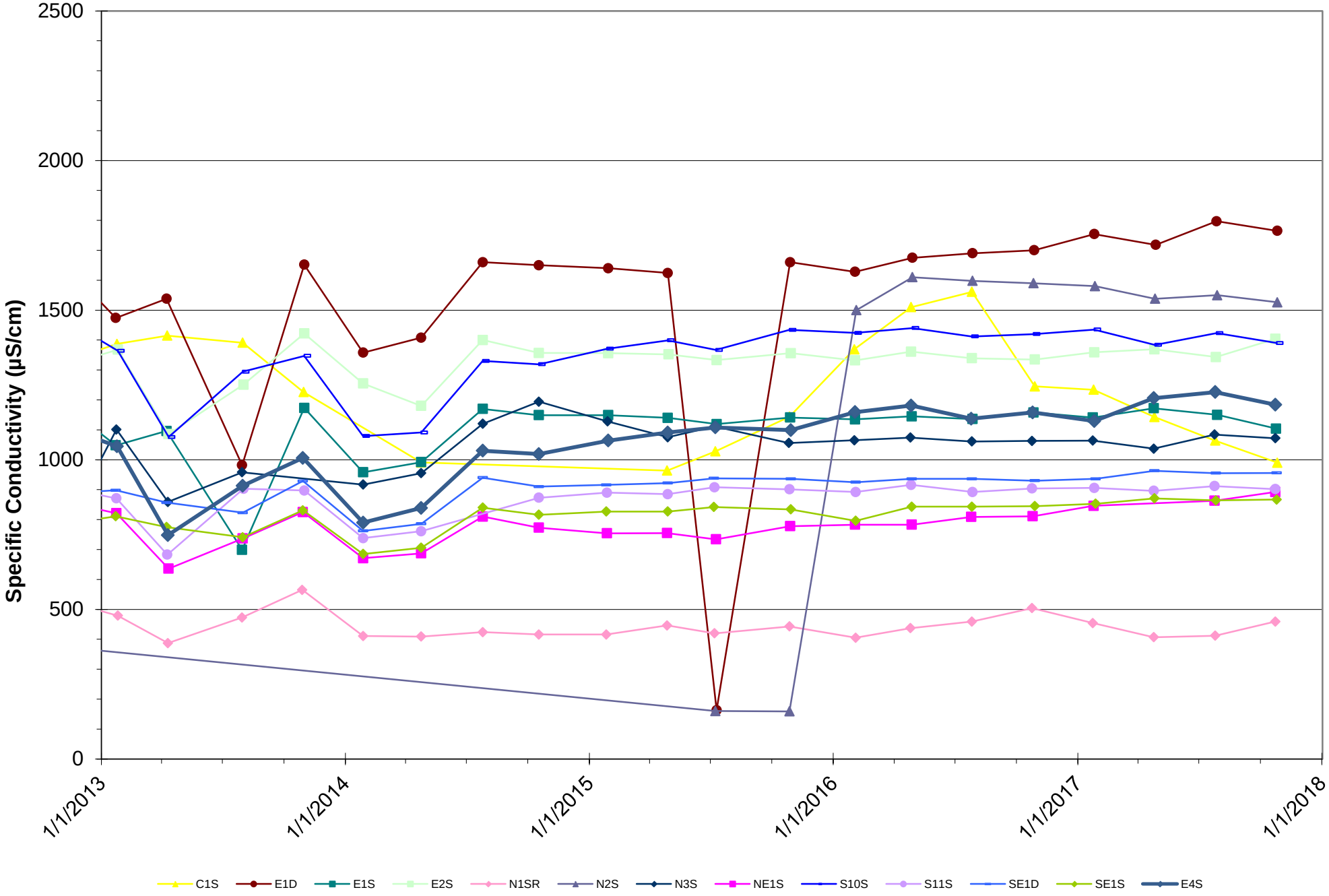


Table C5 - Specific Conductivity Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

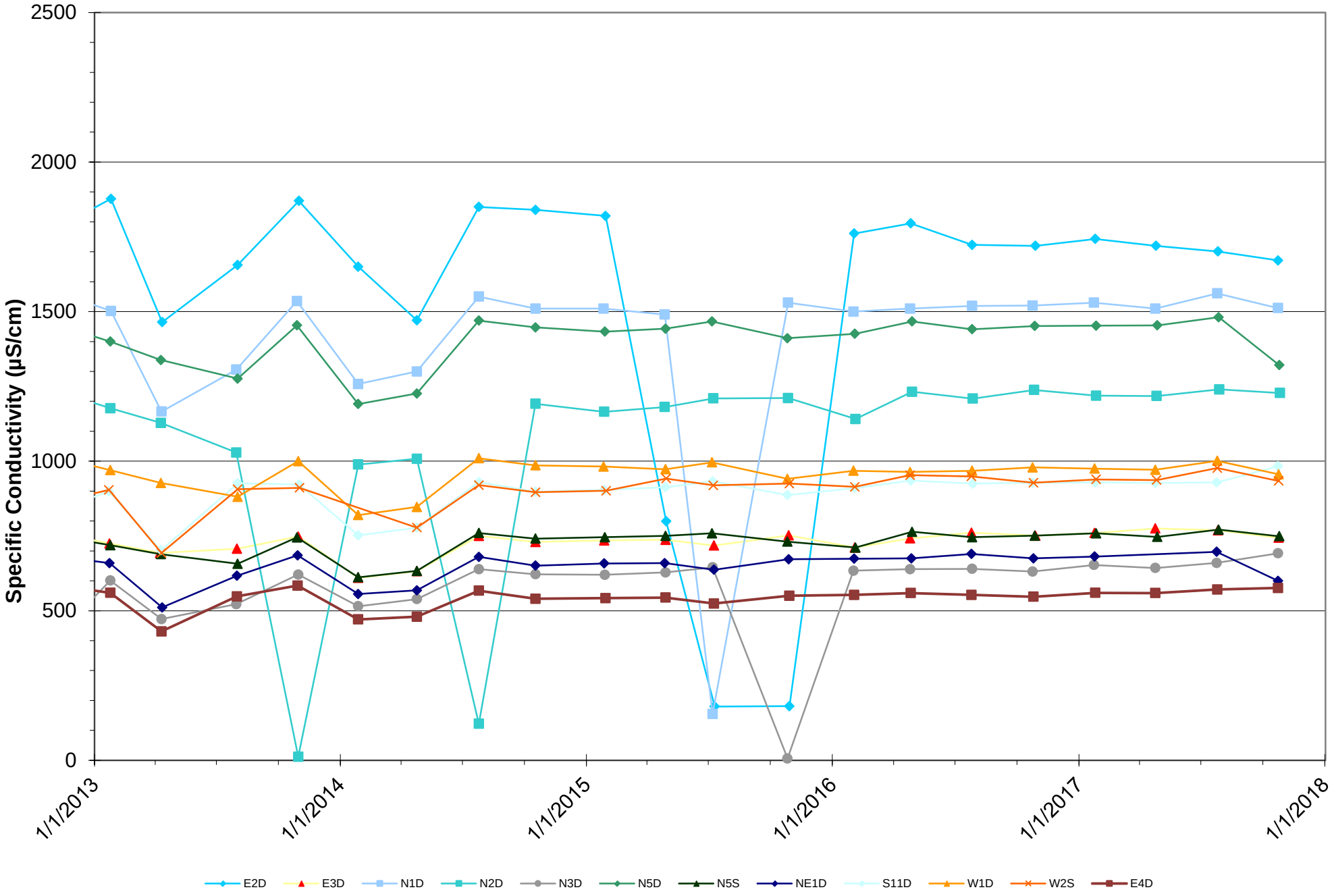


Table C6 - Specific Conductivity Time Series - Pumping Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

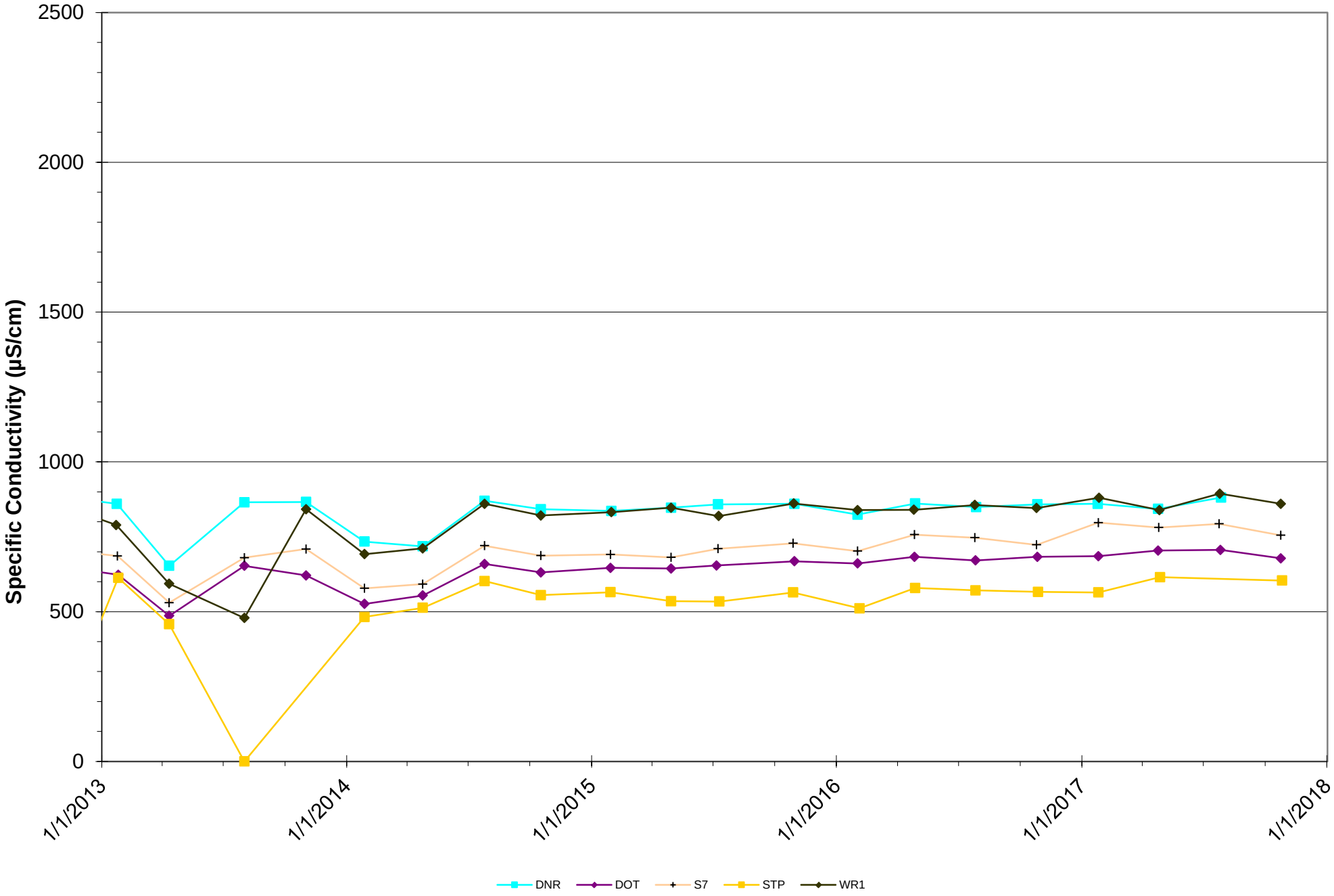


Table C7 - Alkalinity Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

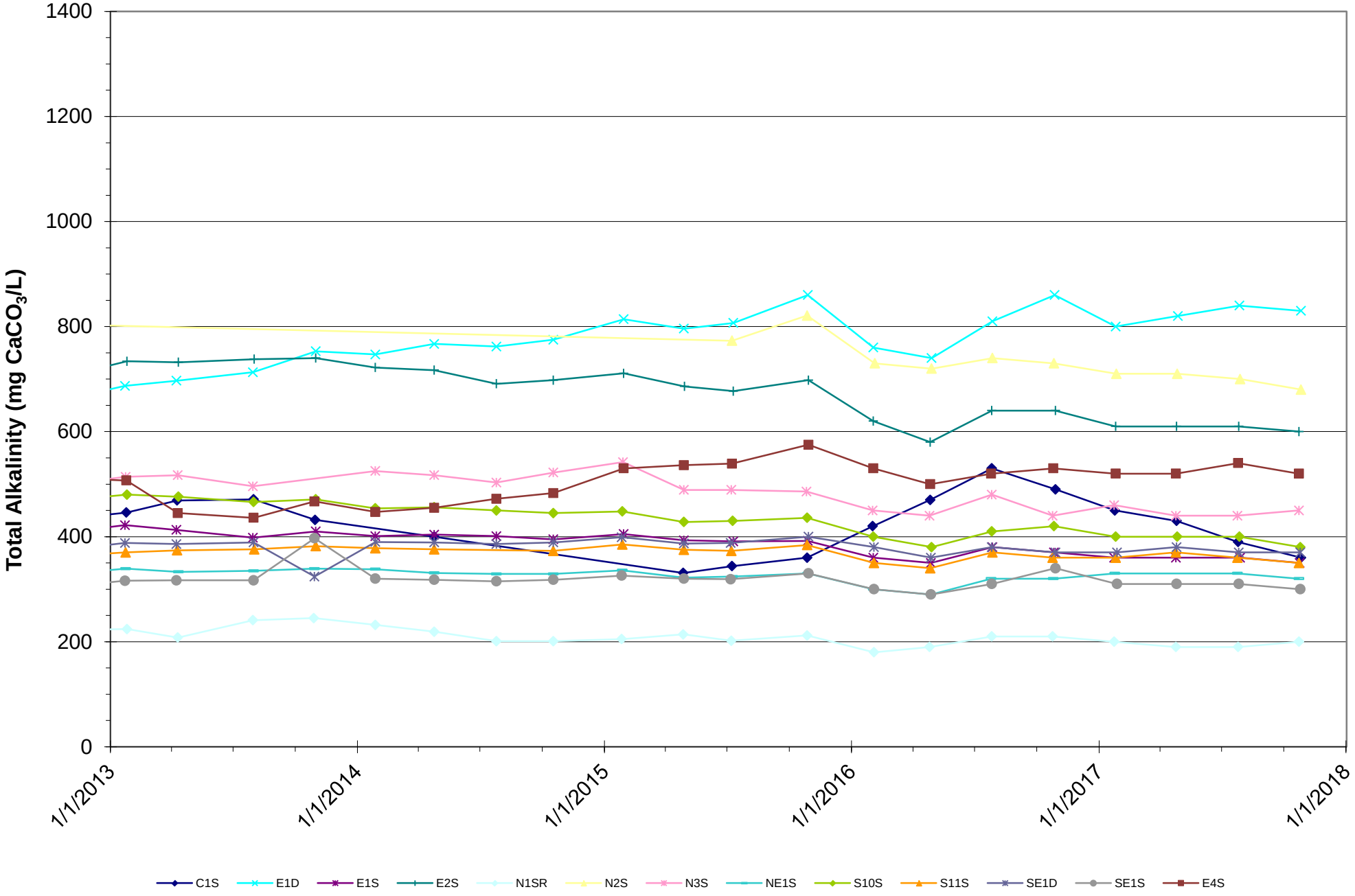


Table C8 - Alkalinity Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

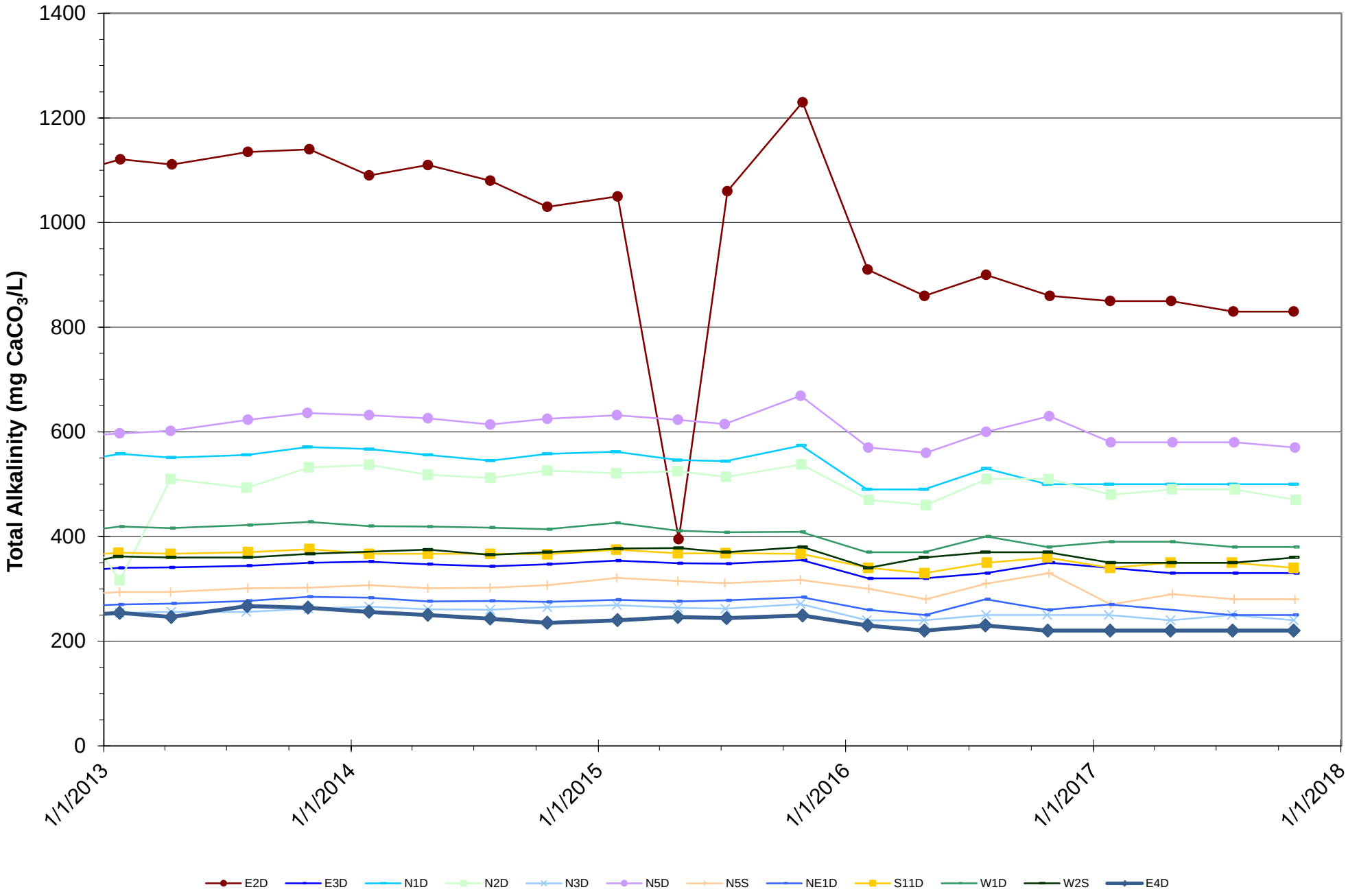


Table C9 - Total Alkalinity Time Series - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

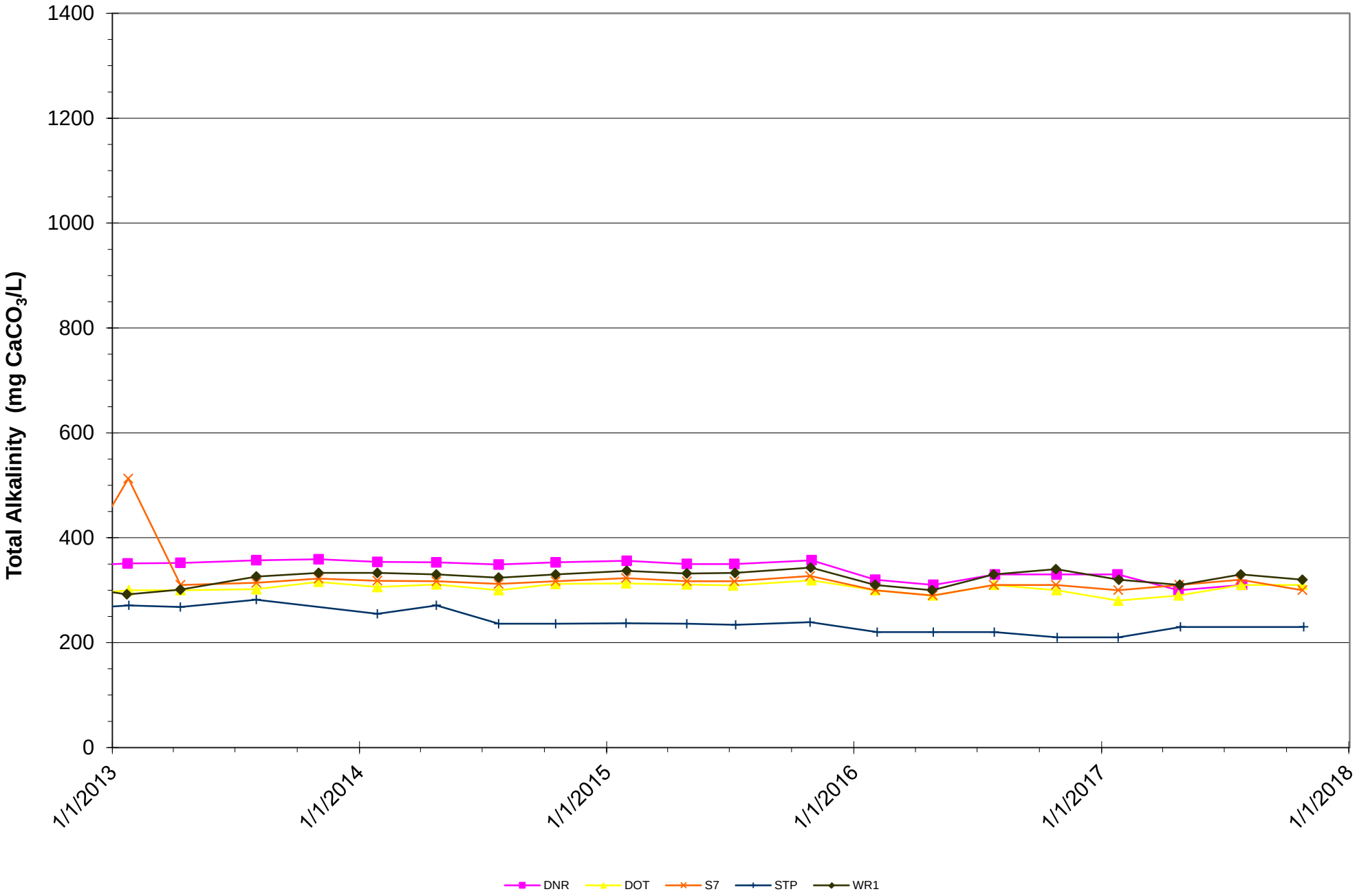


Table C10 - Chloride Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

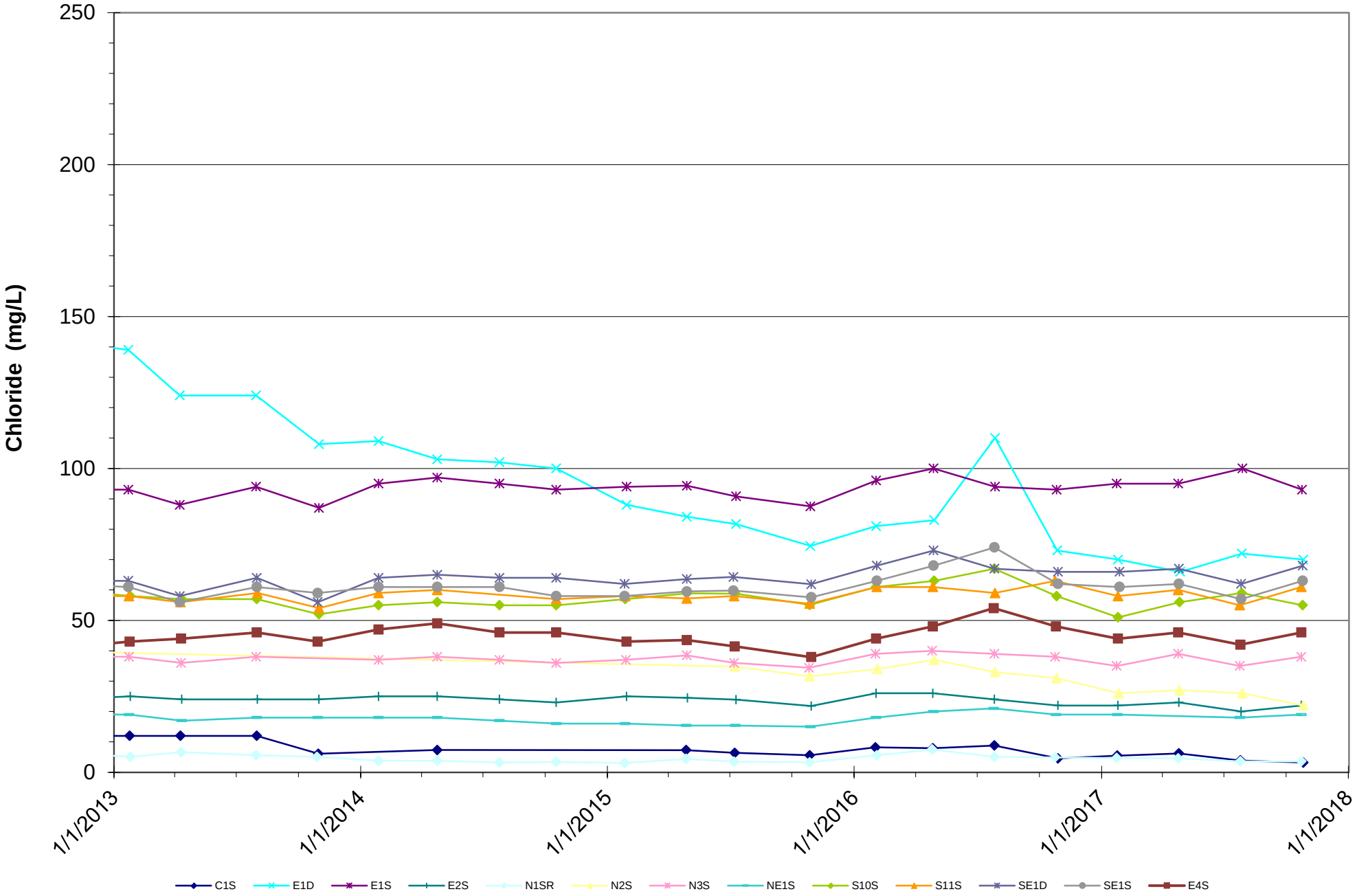


Table C11 - Chloride Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

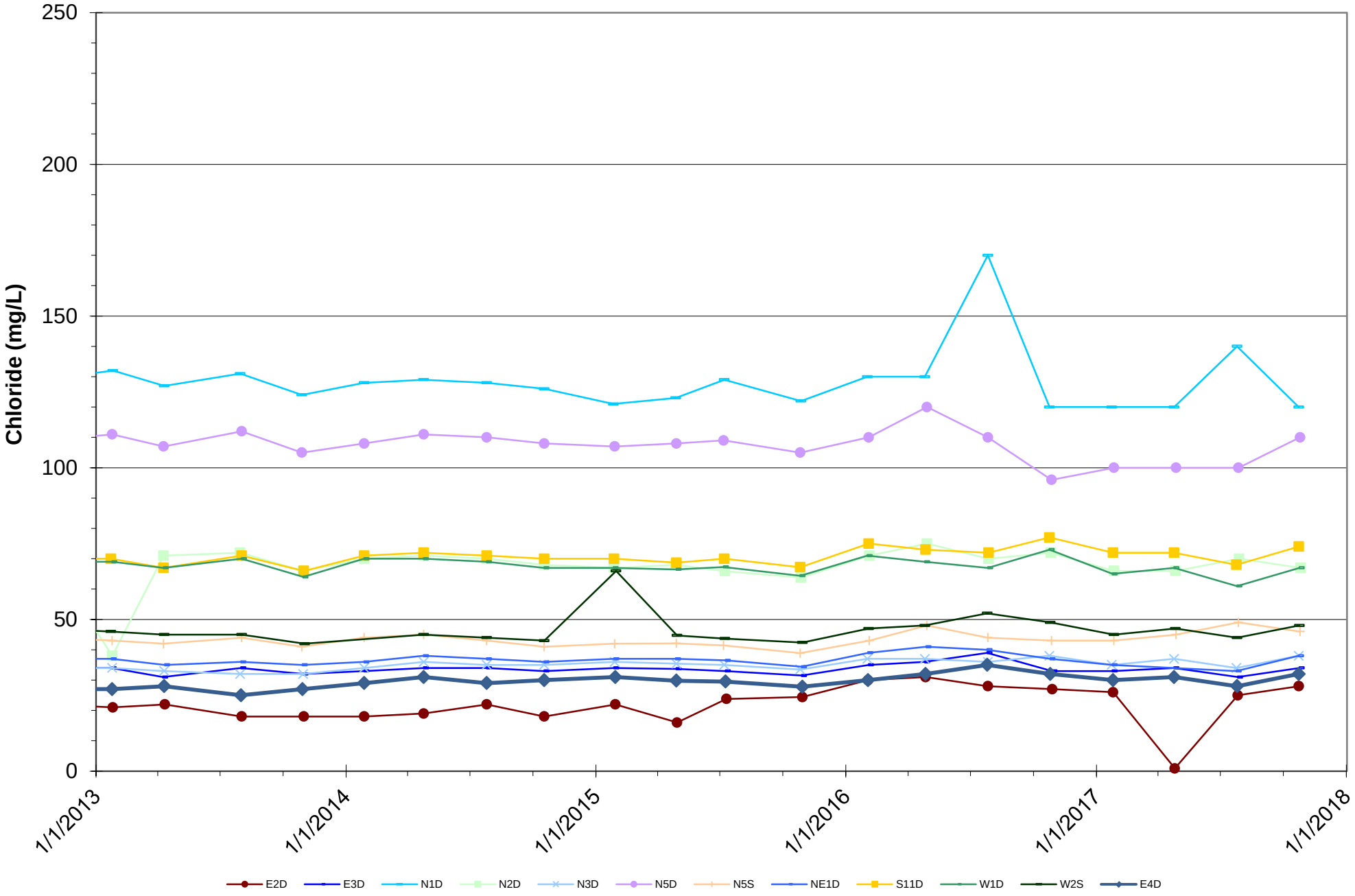
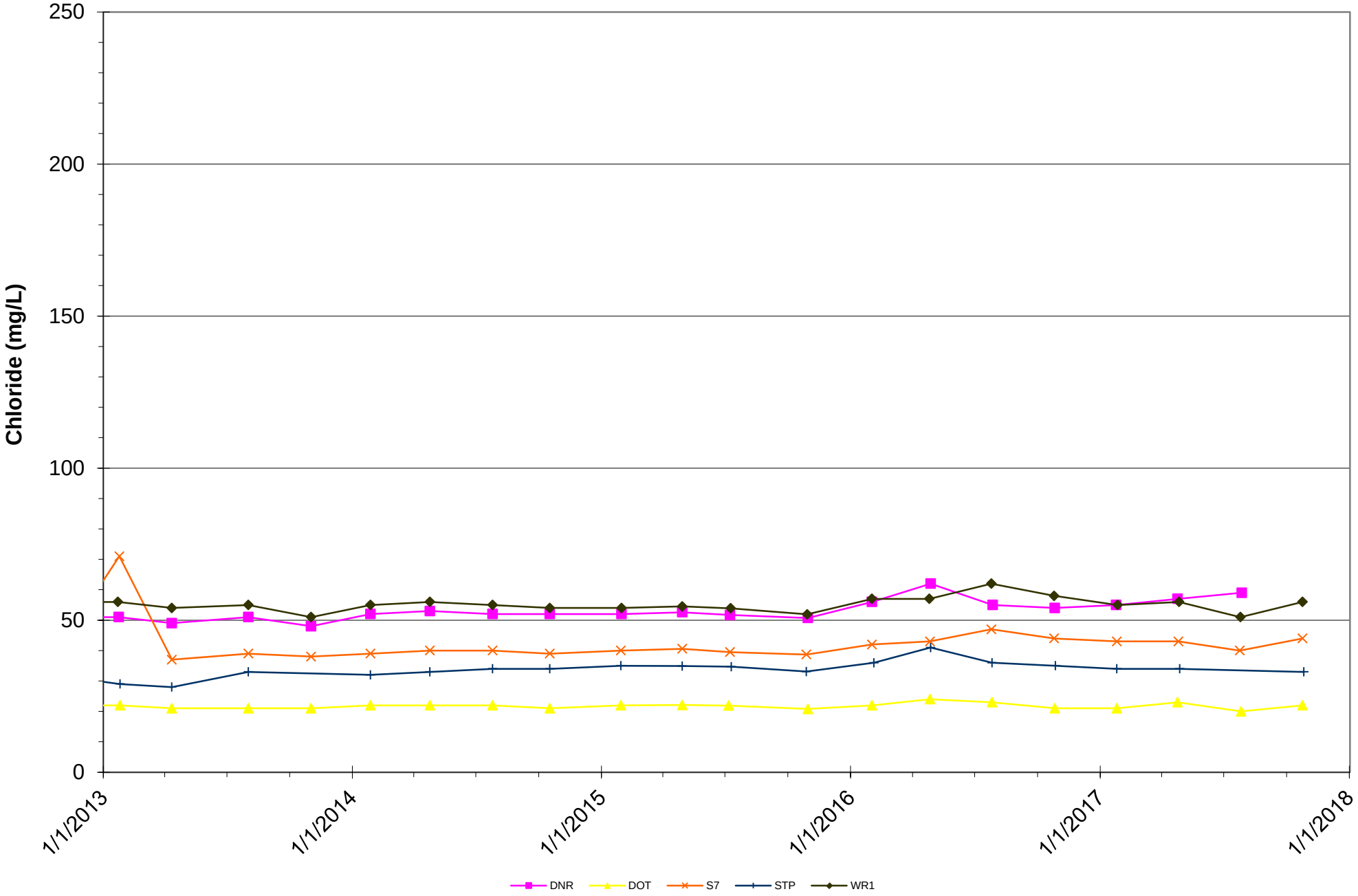


Table C12 - Chloride Time Series - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



Tables C13 - Sulfate Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

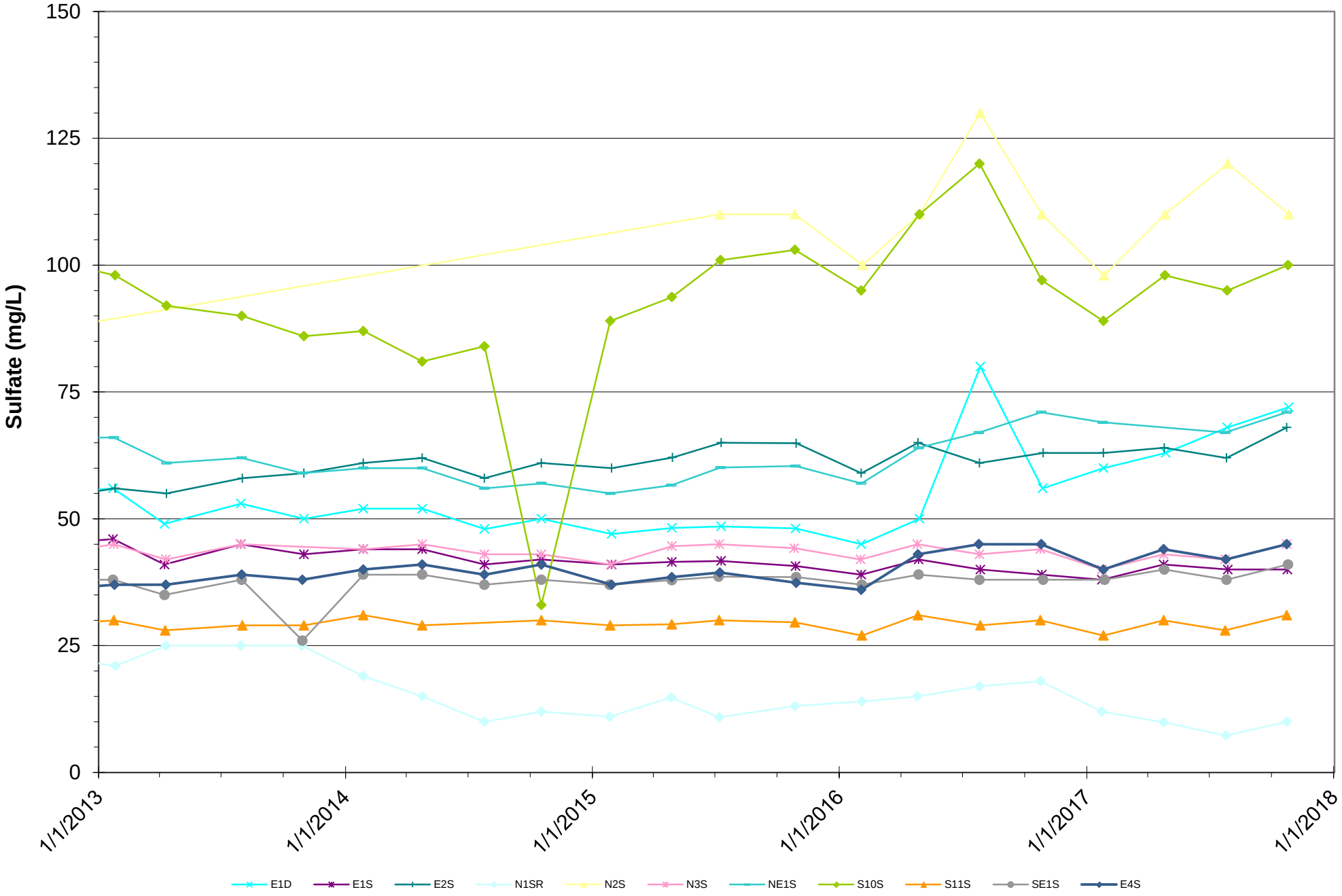


Table C14 - Sulfate Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

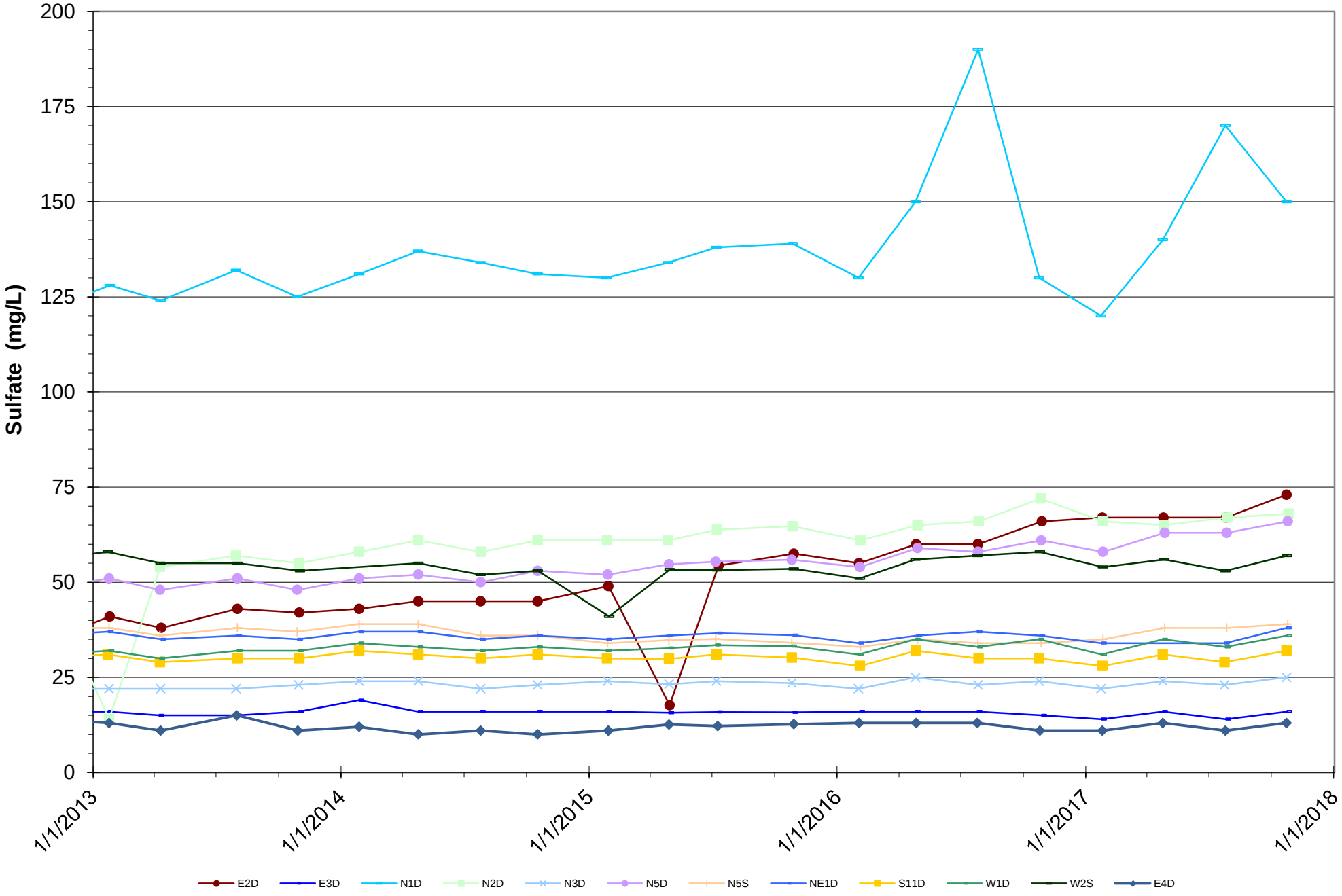


Table C15 - Sulfate Time Series - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

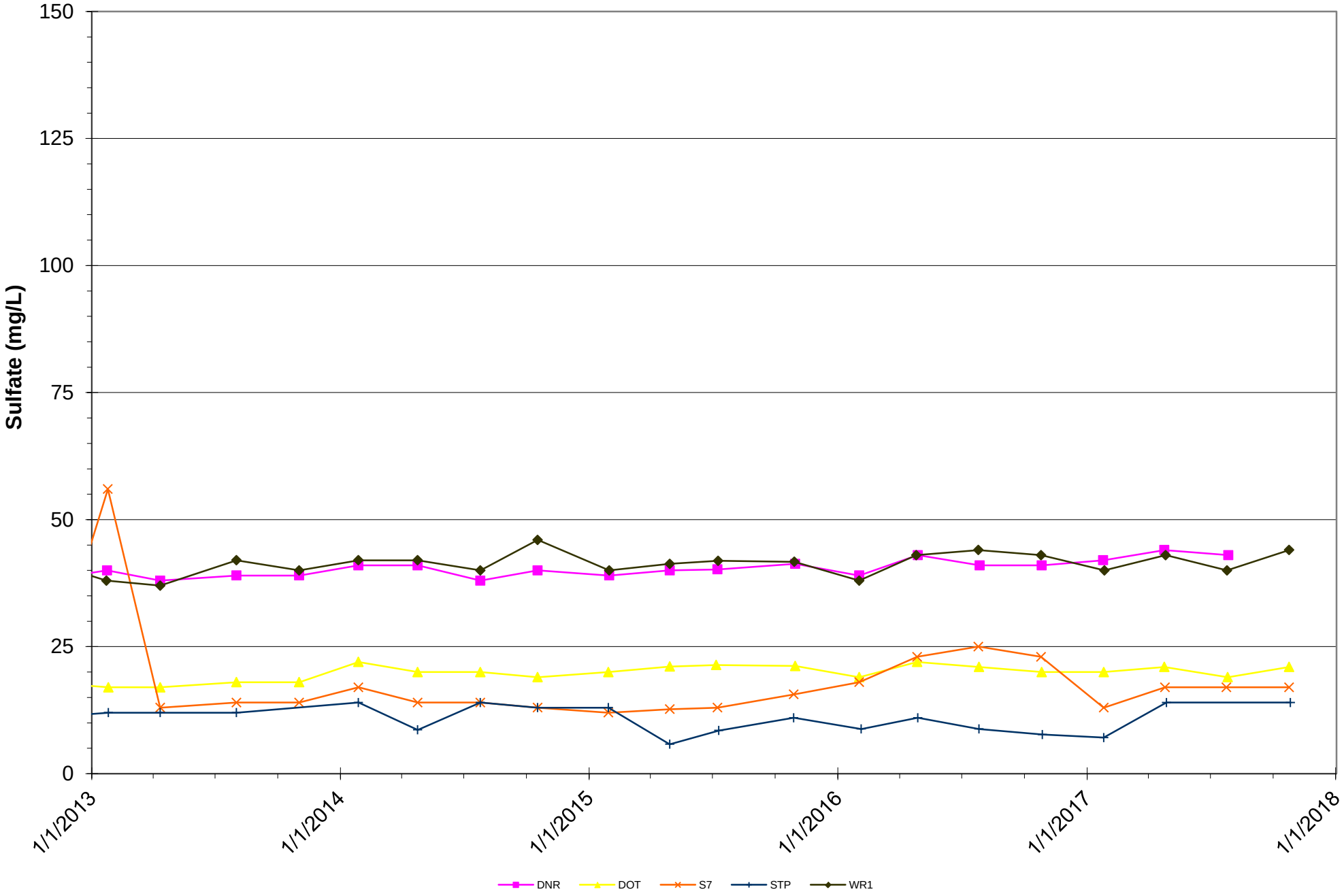


Table C16 - Total Dissolved Solids Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

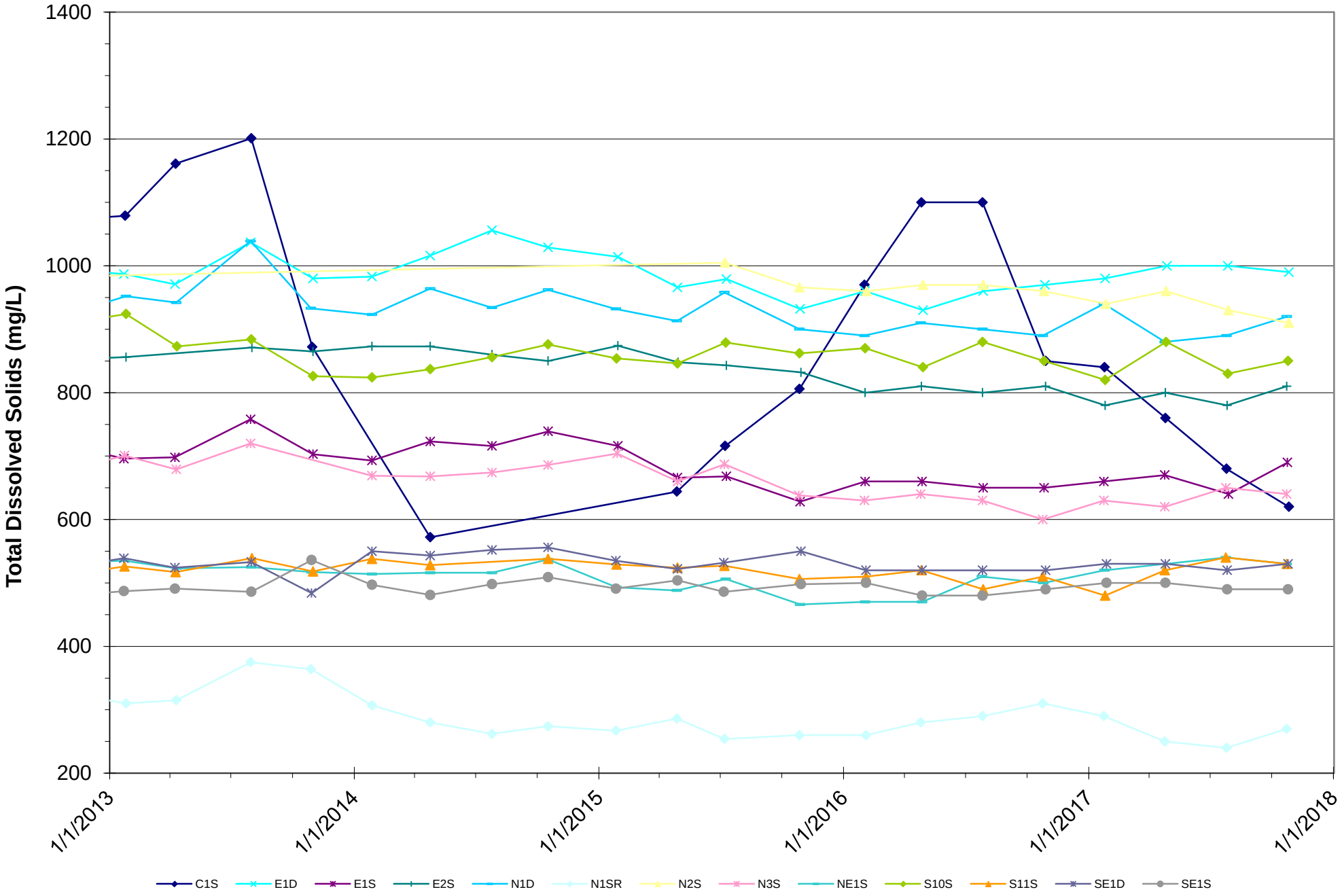


Table C17 - Total Dissolved Solids Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

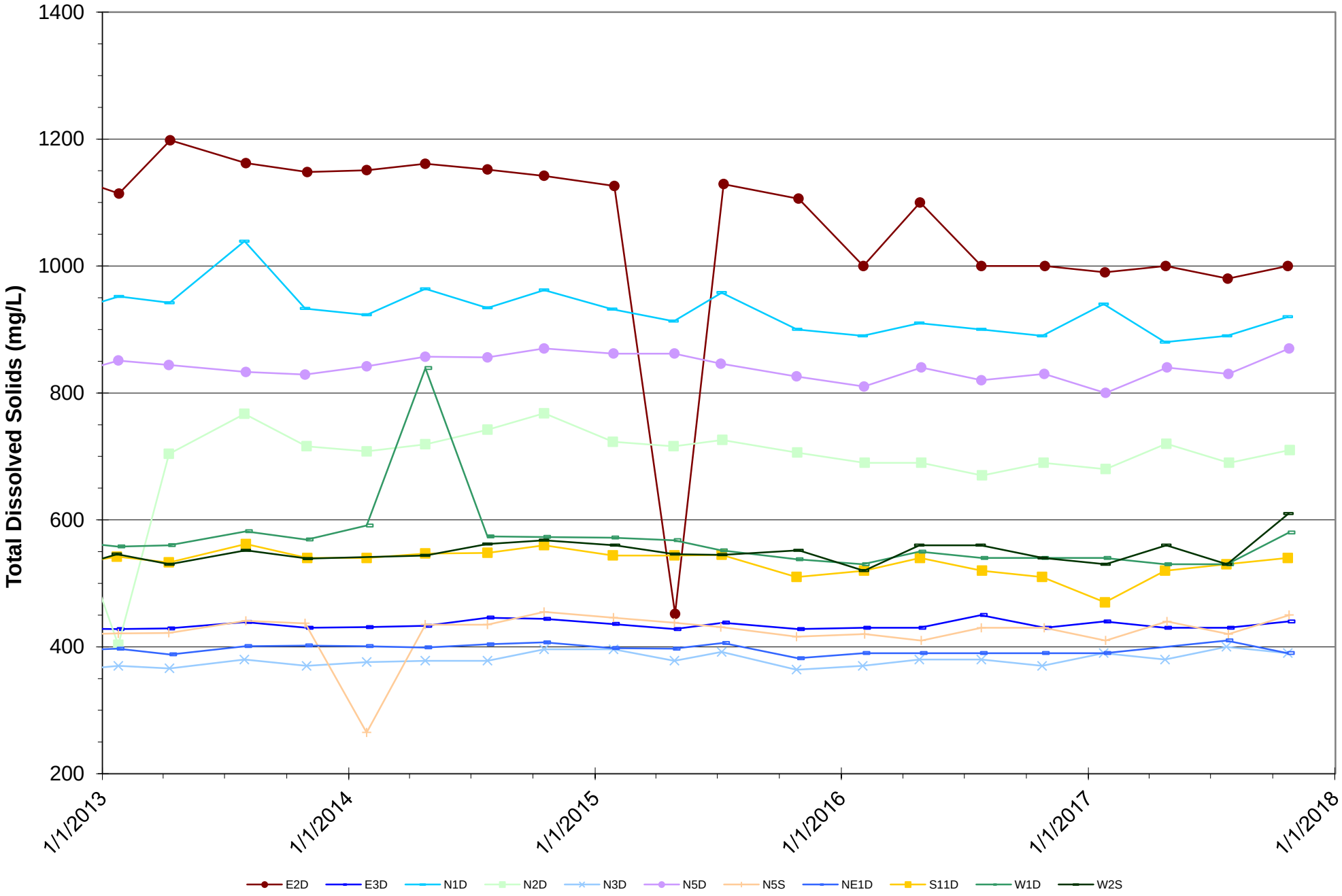


Table C18 -Total Dissolved Solids Time Series - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

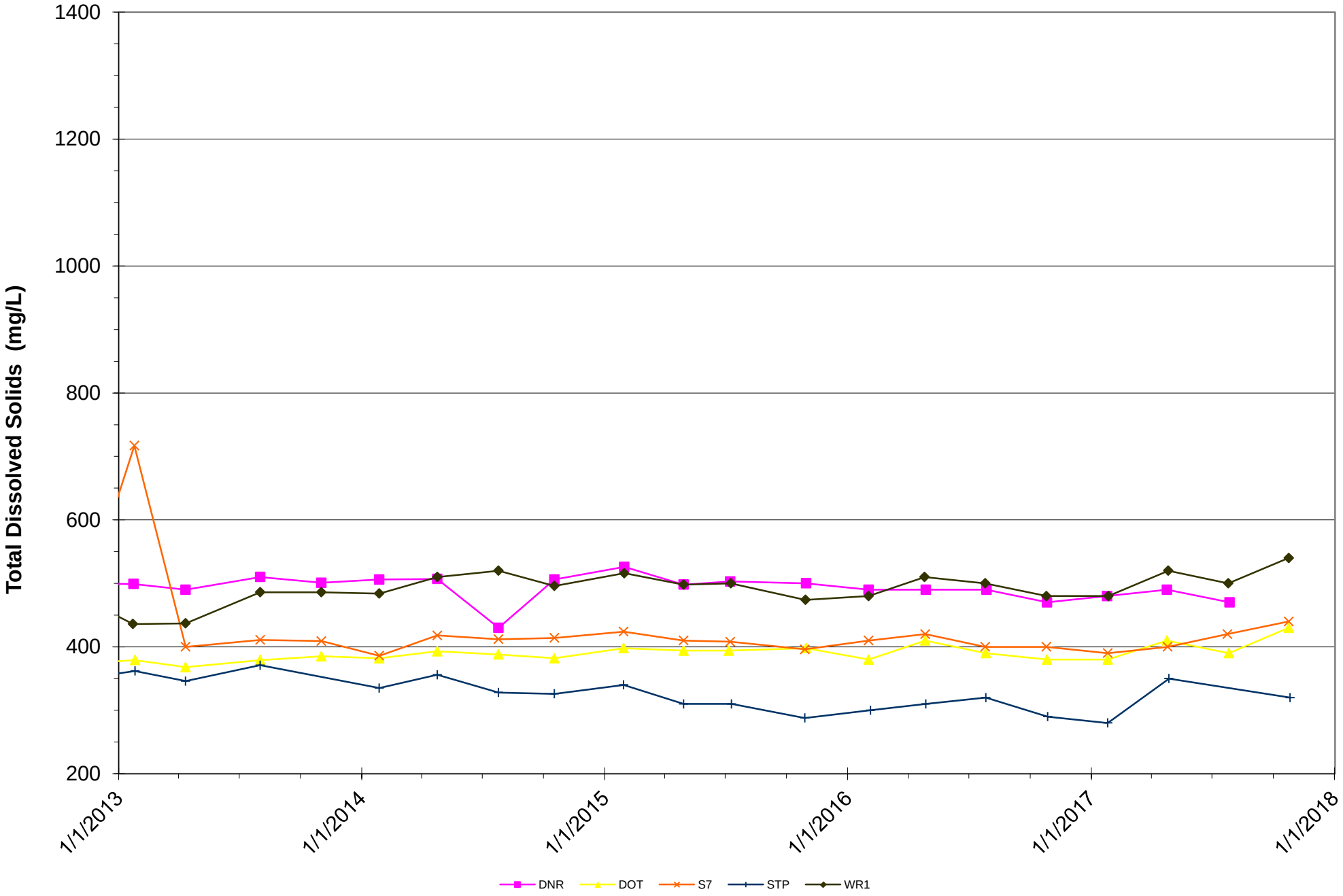


Table C19 - Total Nitrate/Nitrite Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

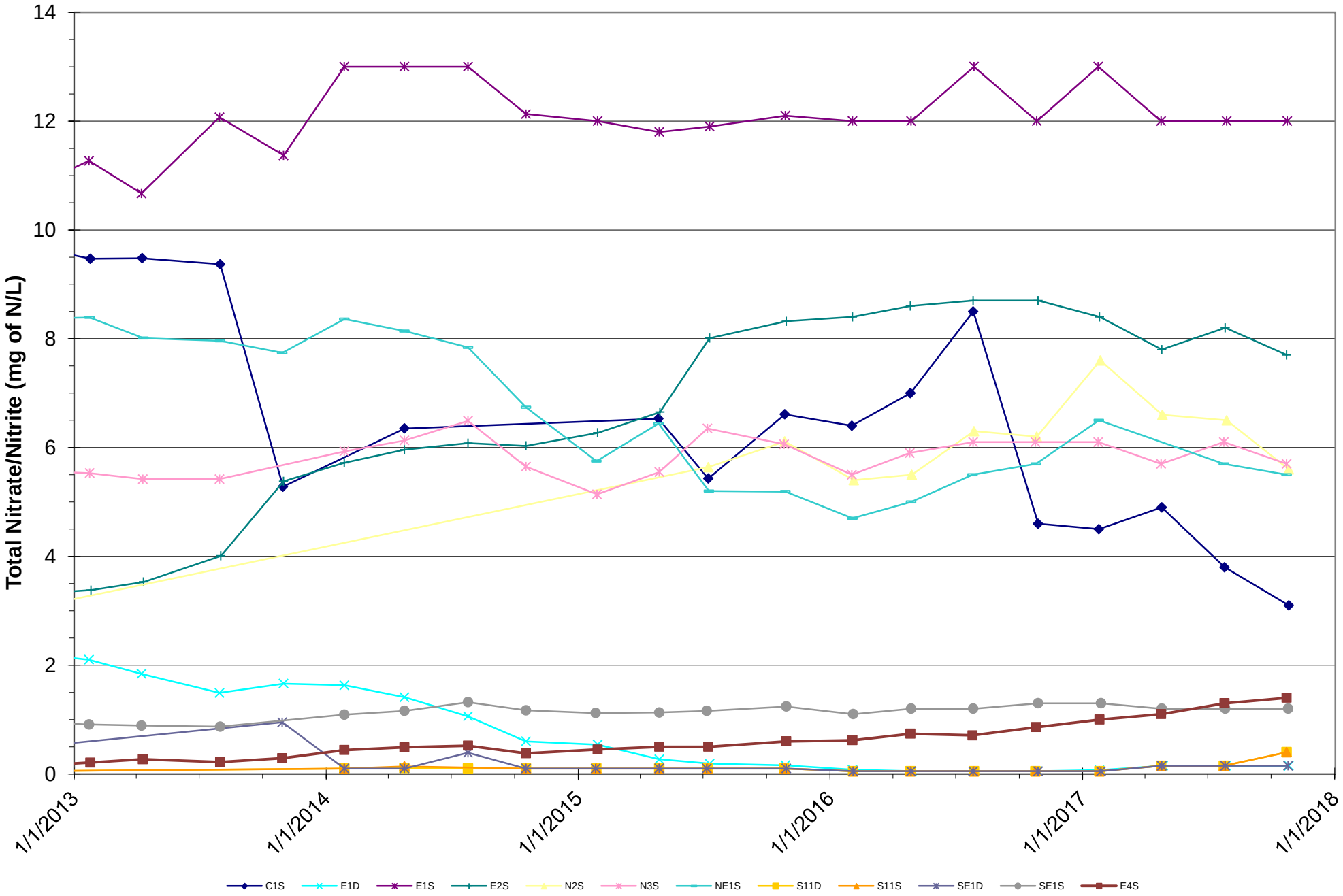


Table C20 -Total Nitrate/Nitrite Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste , Island County, Washington

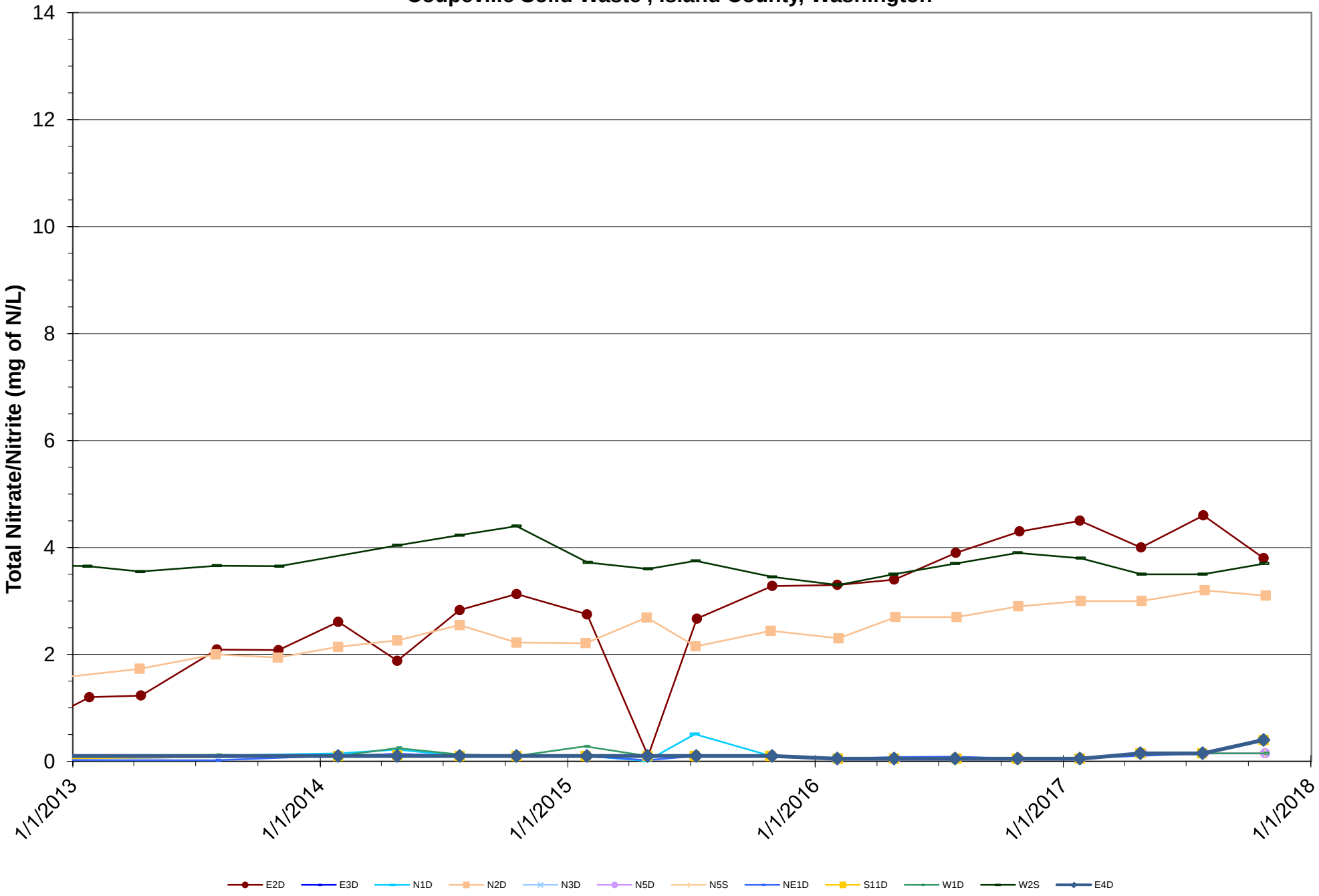


Table C21 - Total Nitrate/Nitrite Time Series - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

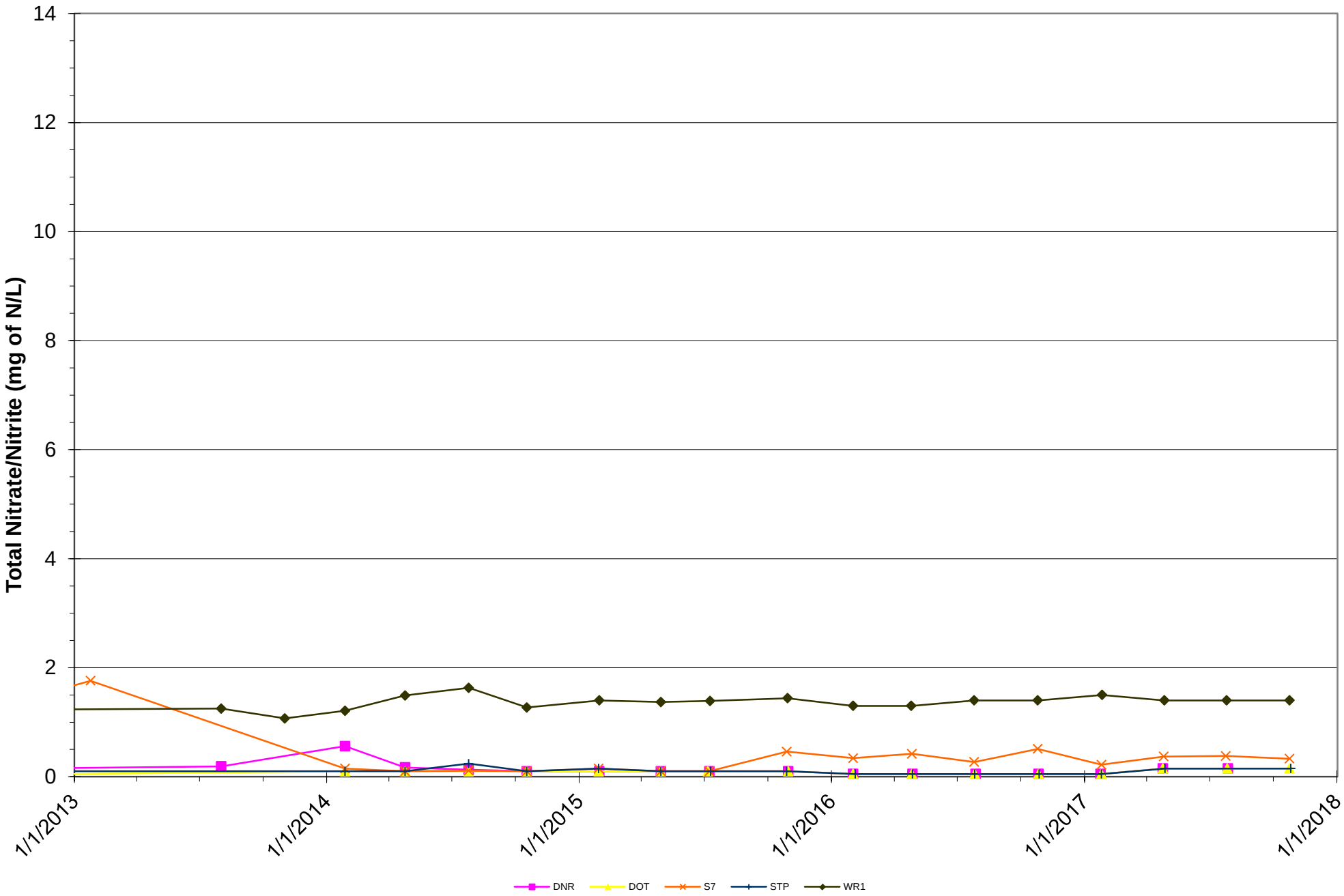


Table C22 - Total Organic Carbon Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

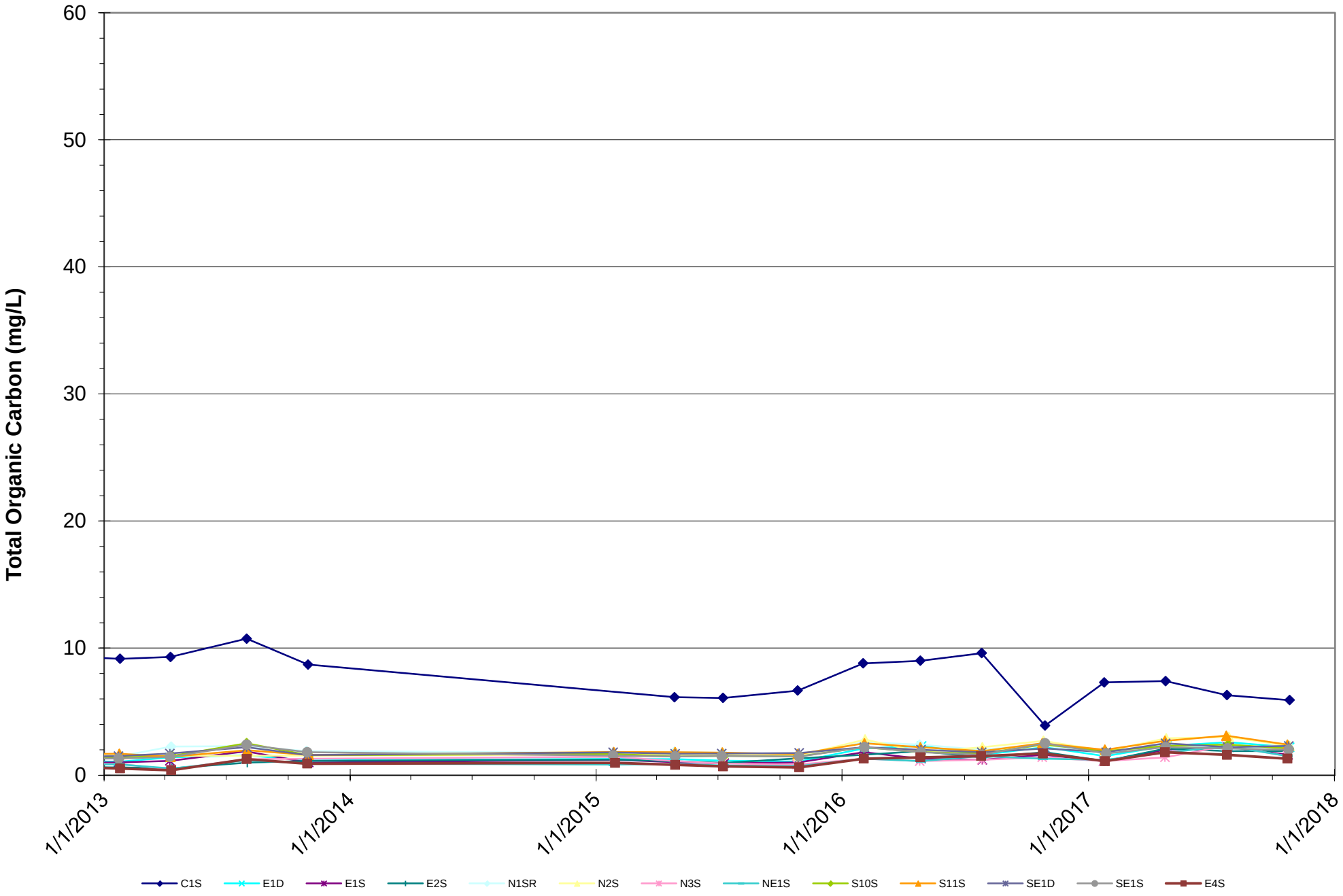


Table C23 - Total Organic Carbon Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

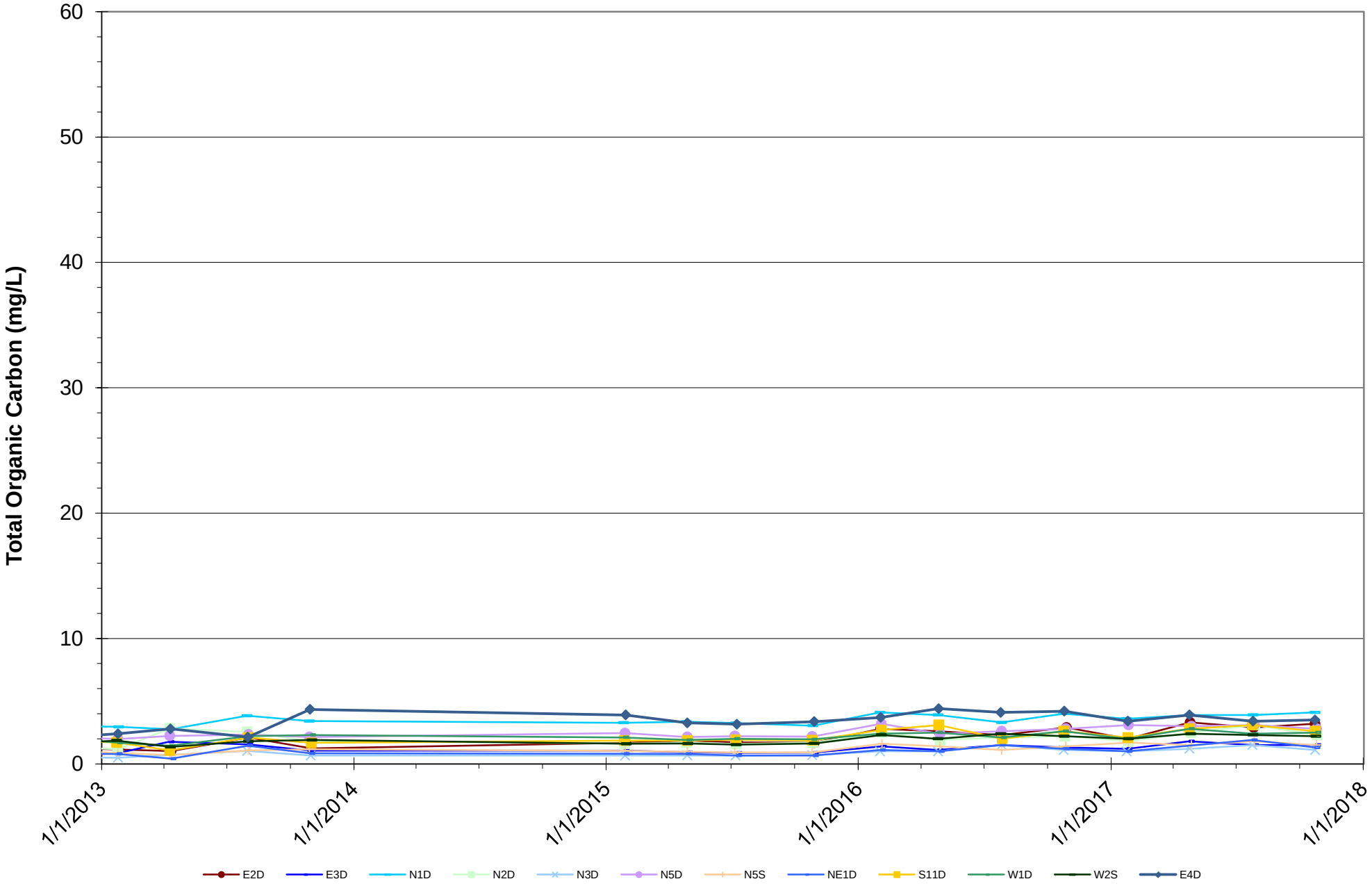


Table C24 - Total Organic Carbon Time Series - Water Supply Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

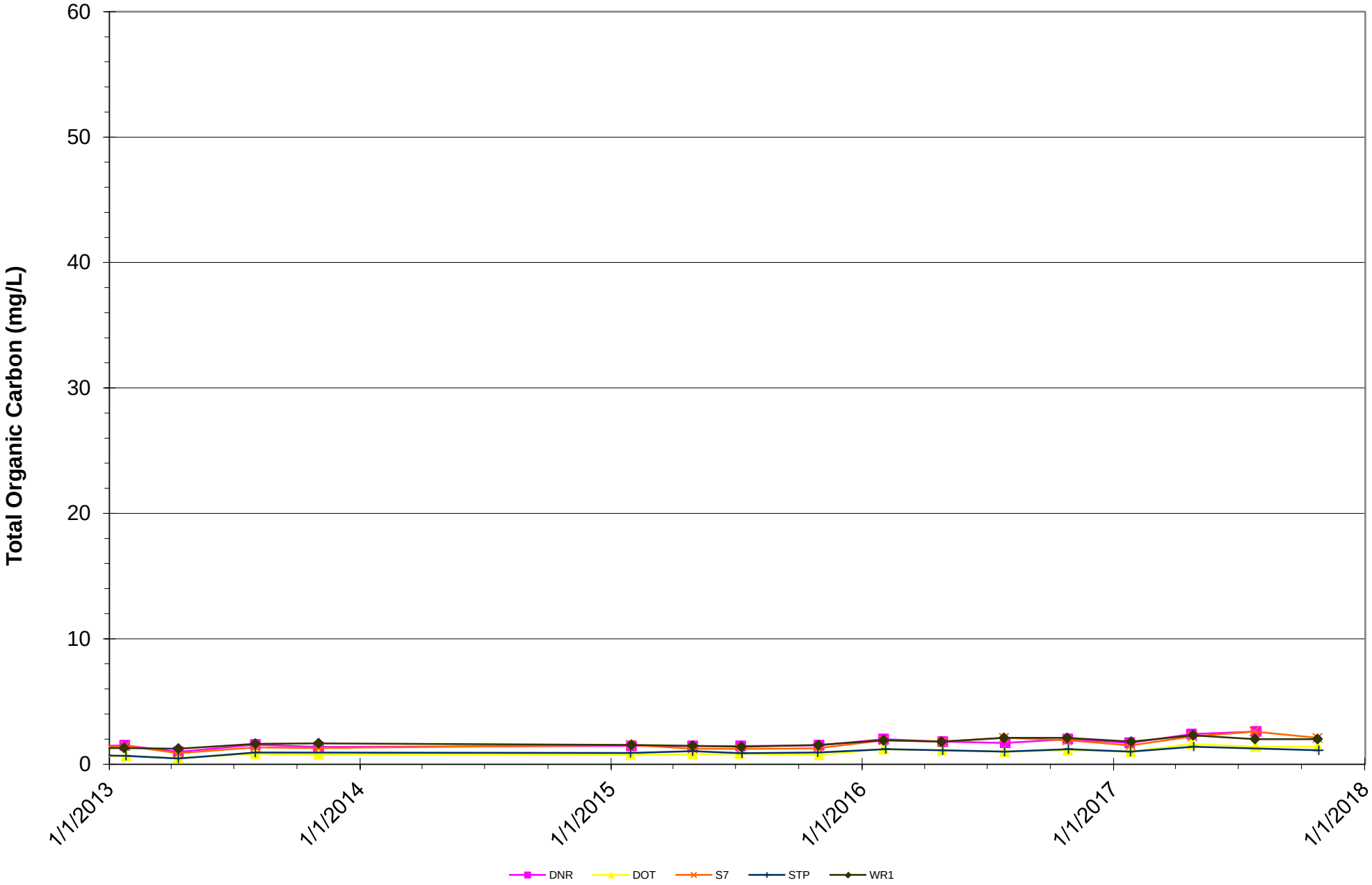


Table C25 - Barium Time Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

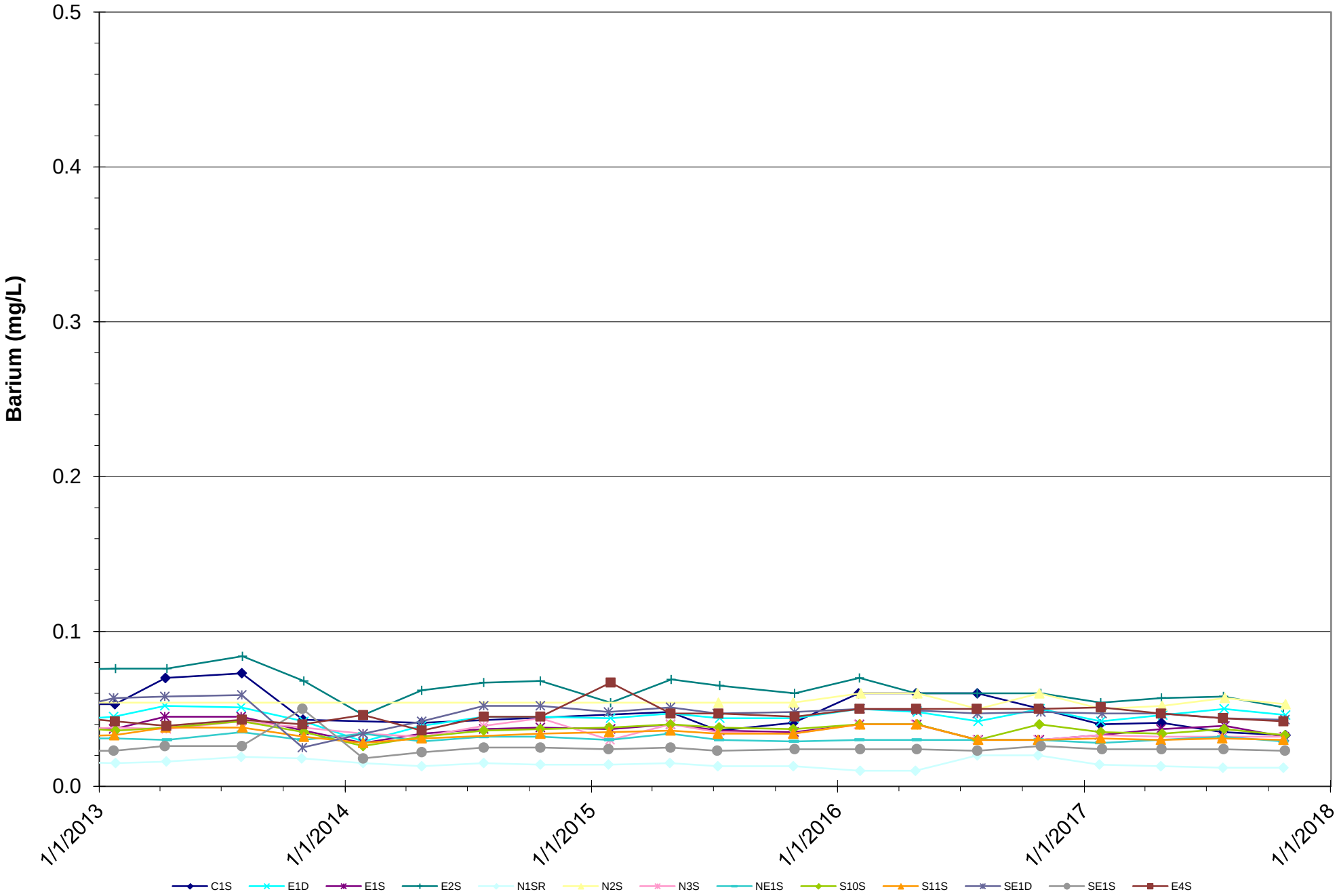


Table C26 - Barium Time Series - Aquifer 2
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

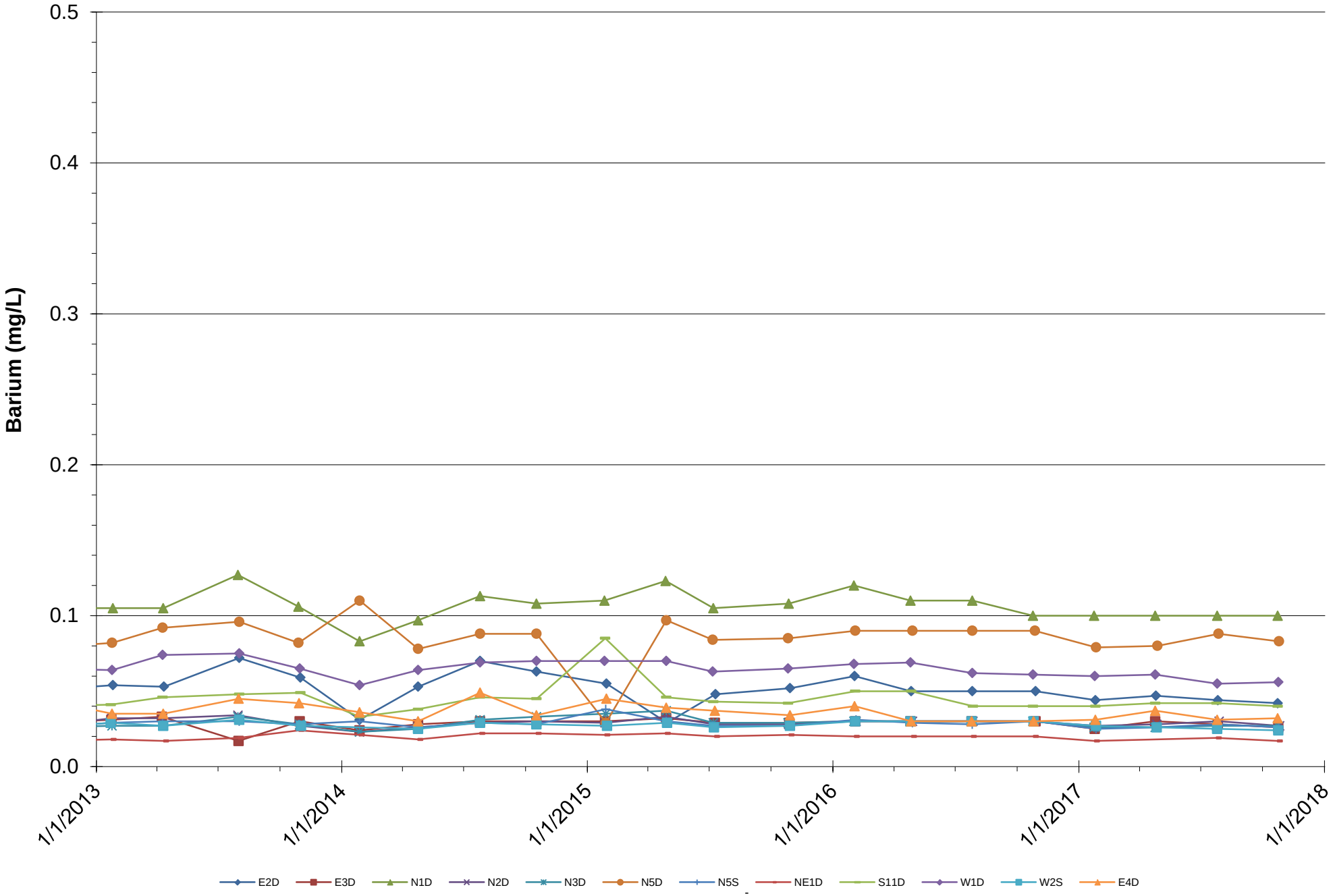


Table C27 - Barium Time Series - Pumping Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

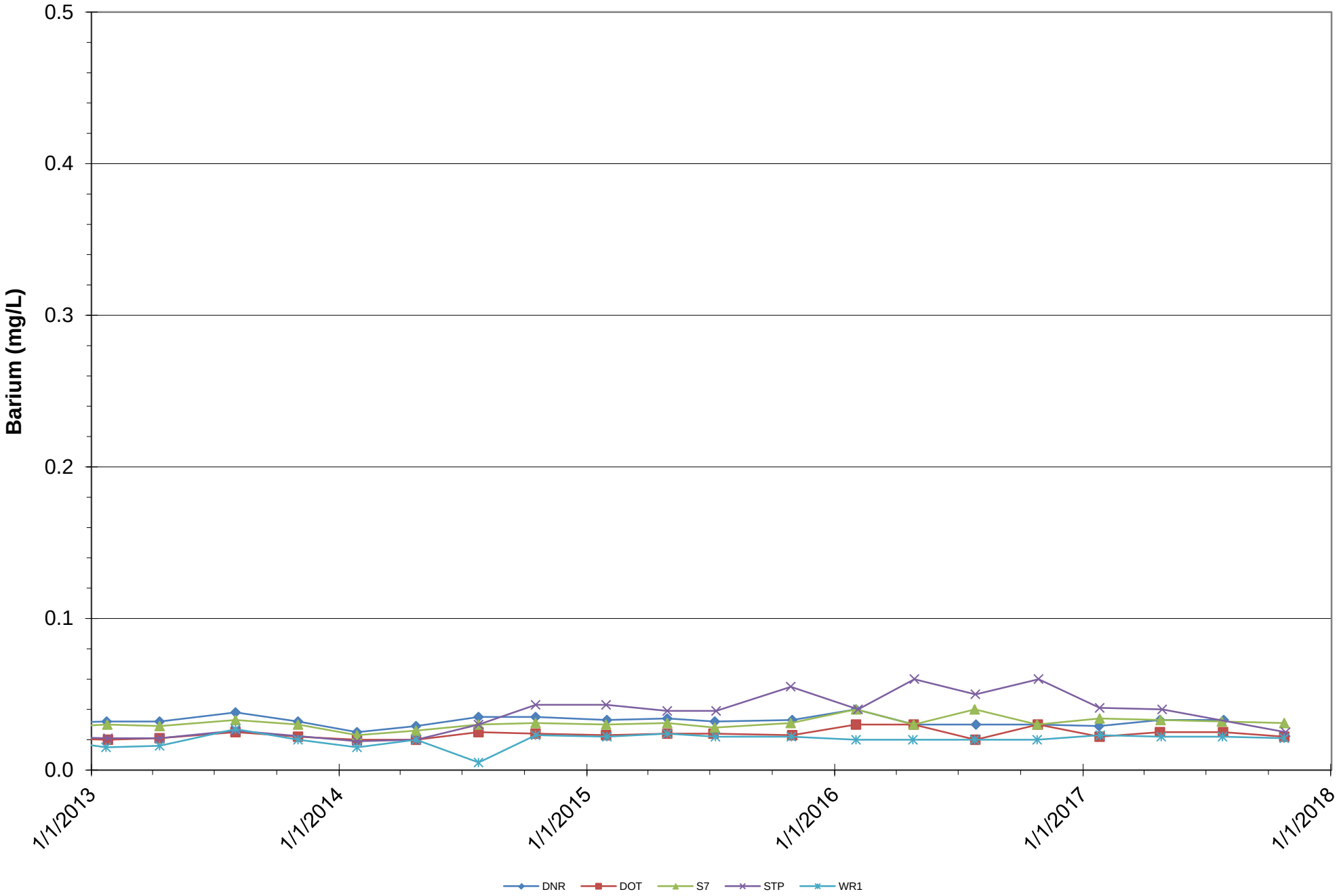


Table C28 - 1,1-Dichloroethane Time Series
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

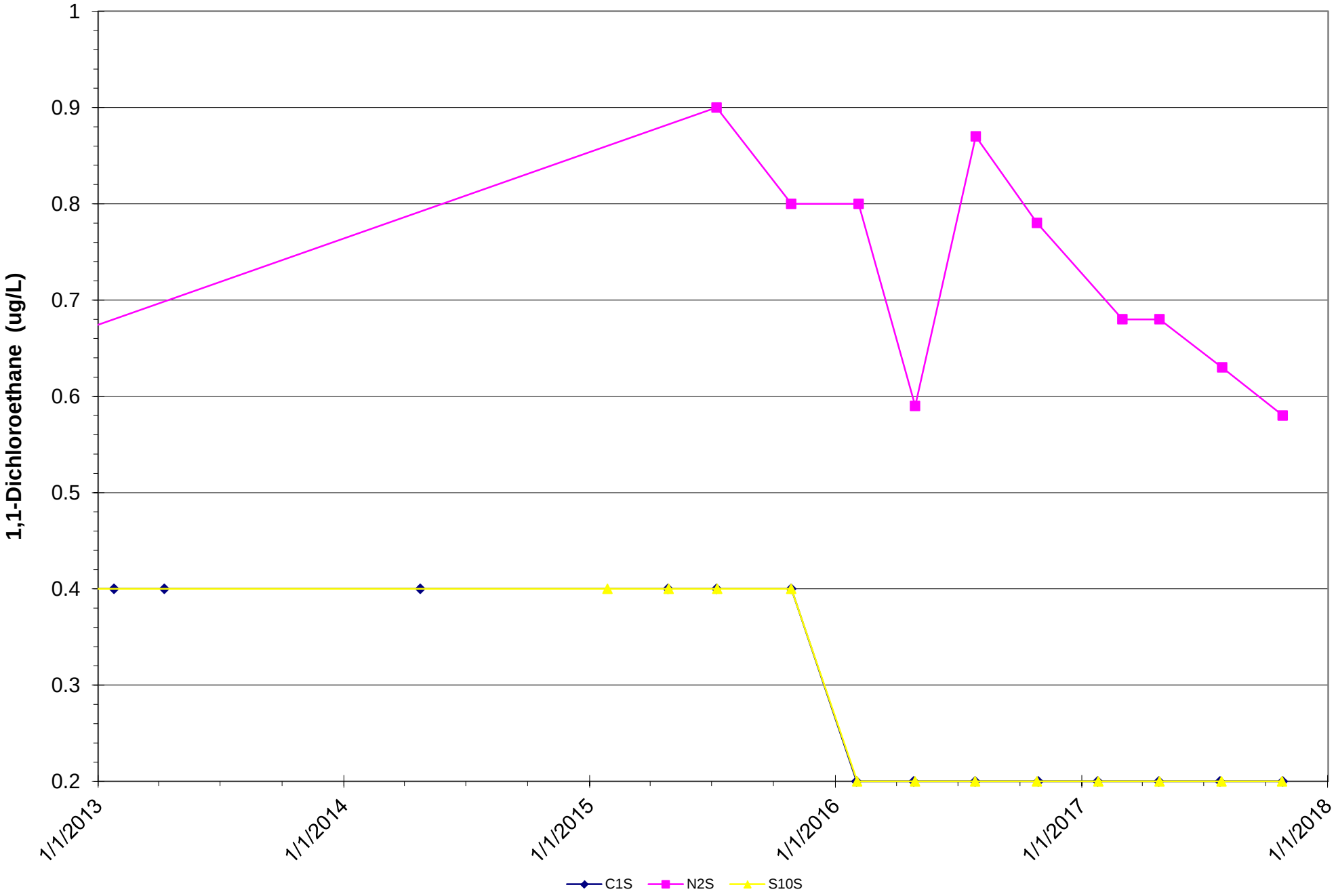


Table C29 - cis-1,2-Dichloroethylene Time Series
2017 Annual Monitoring Report
Coupeville Solidwaste Facility, Island County, Washington

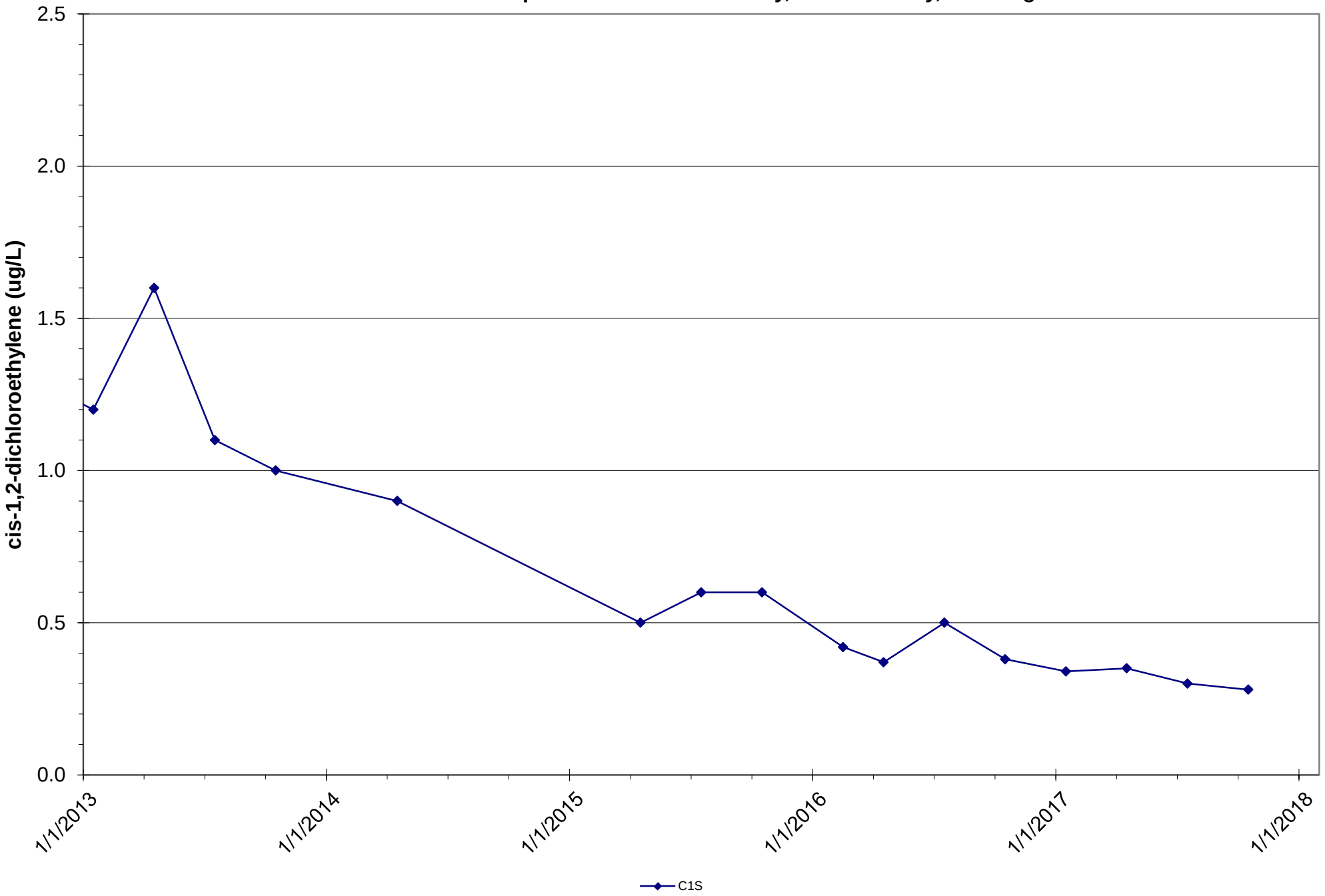


Table C30 - Methylene Chloride Time Series
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

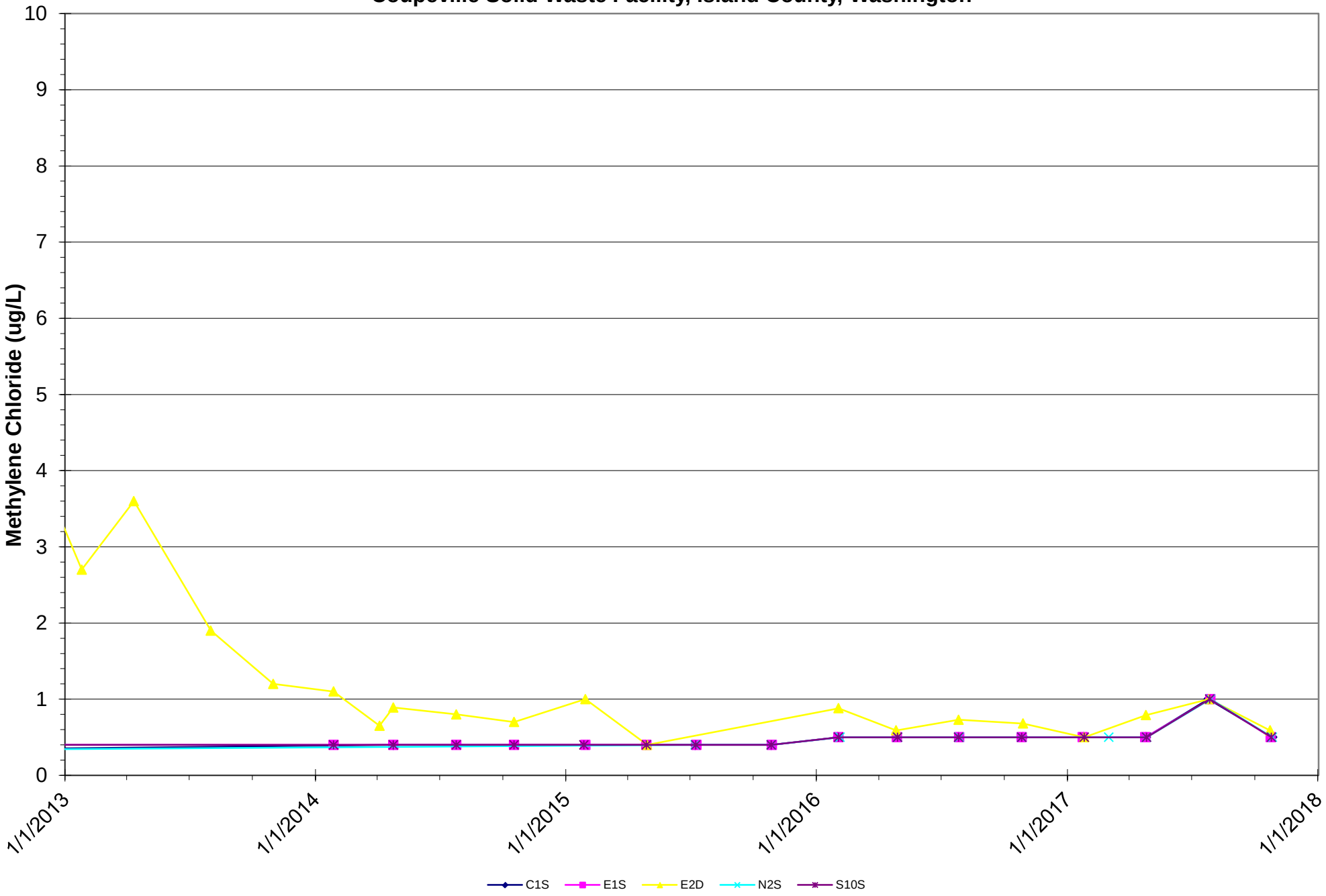


Table C31 - Vinyl ChlorideTime Series - Aquifer 1
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

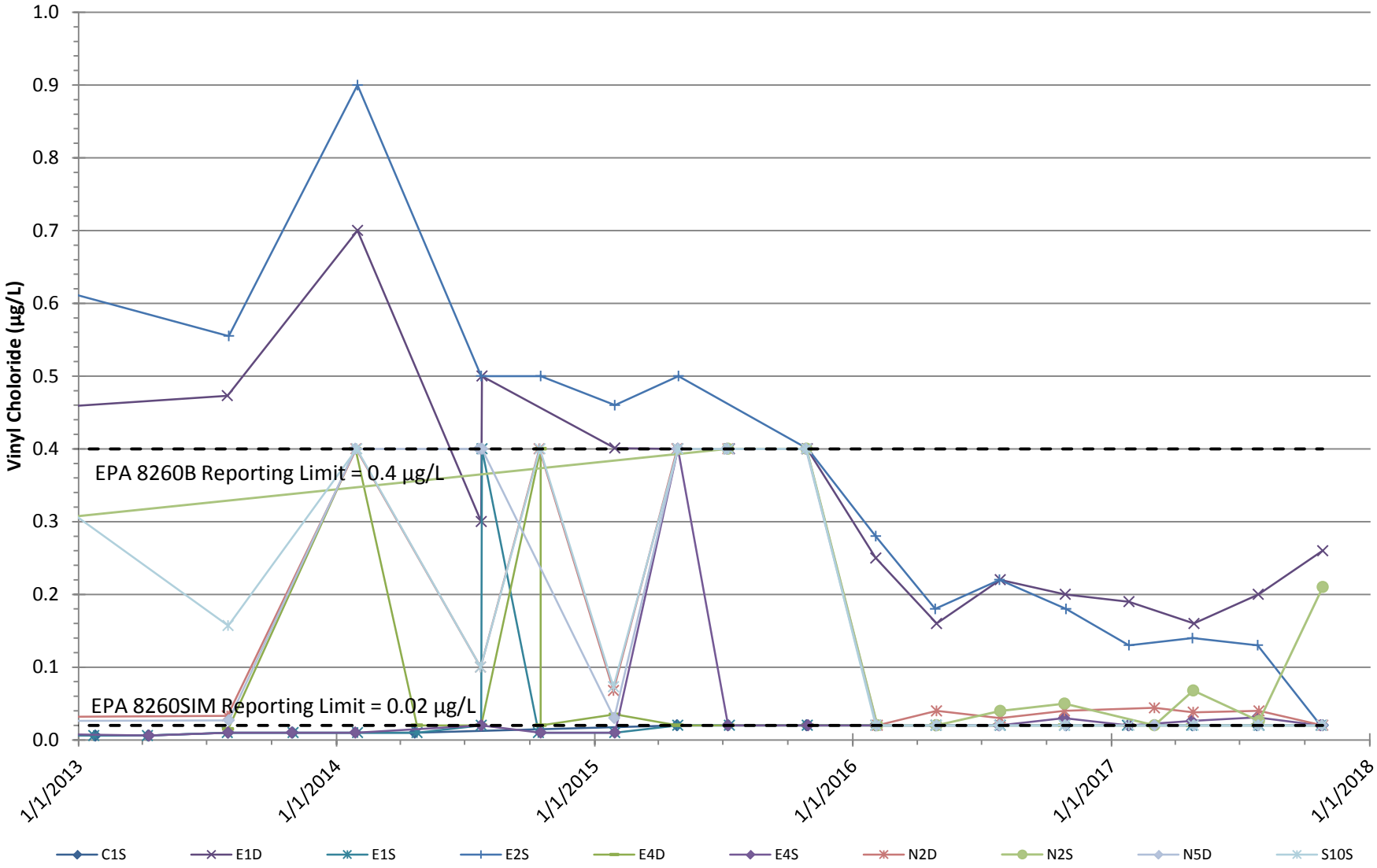


Table C32 - Vinyl ChlorideTime Series - Aquifer 2 (High Range)
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

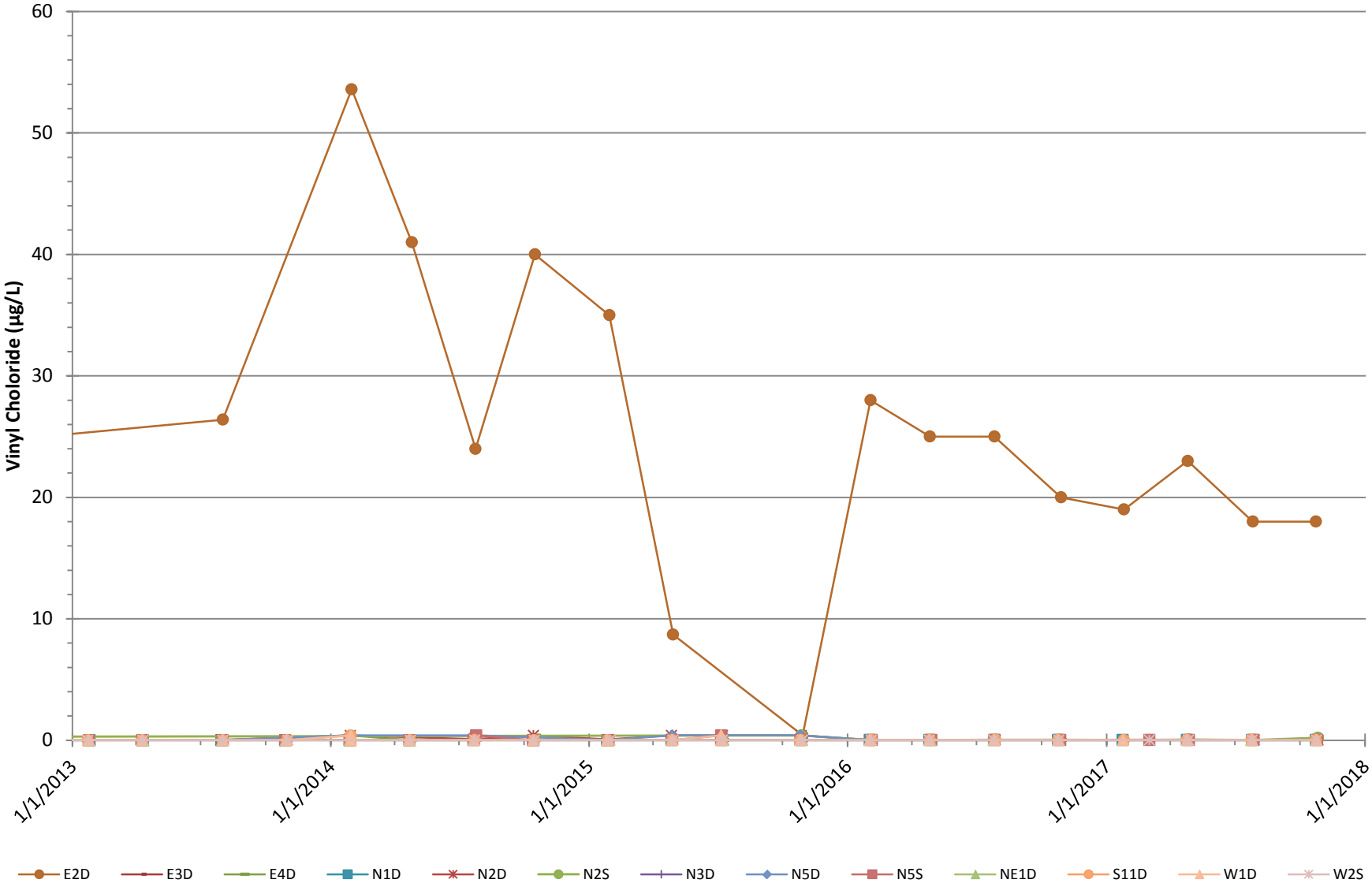


Table C33 - Vinyl ChlorideTime Series - Aquifer 2 (Low Range)
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

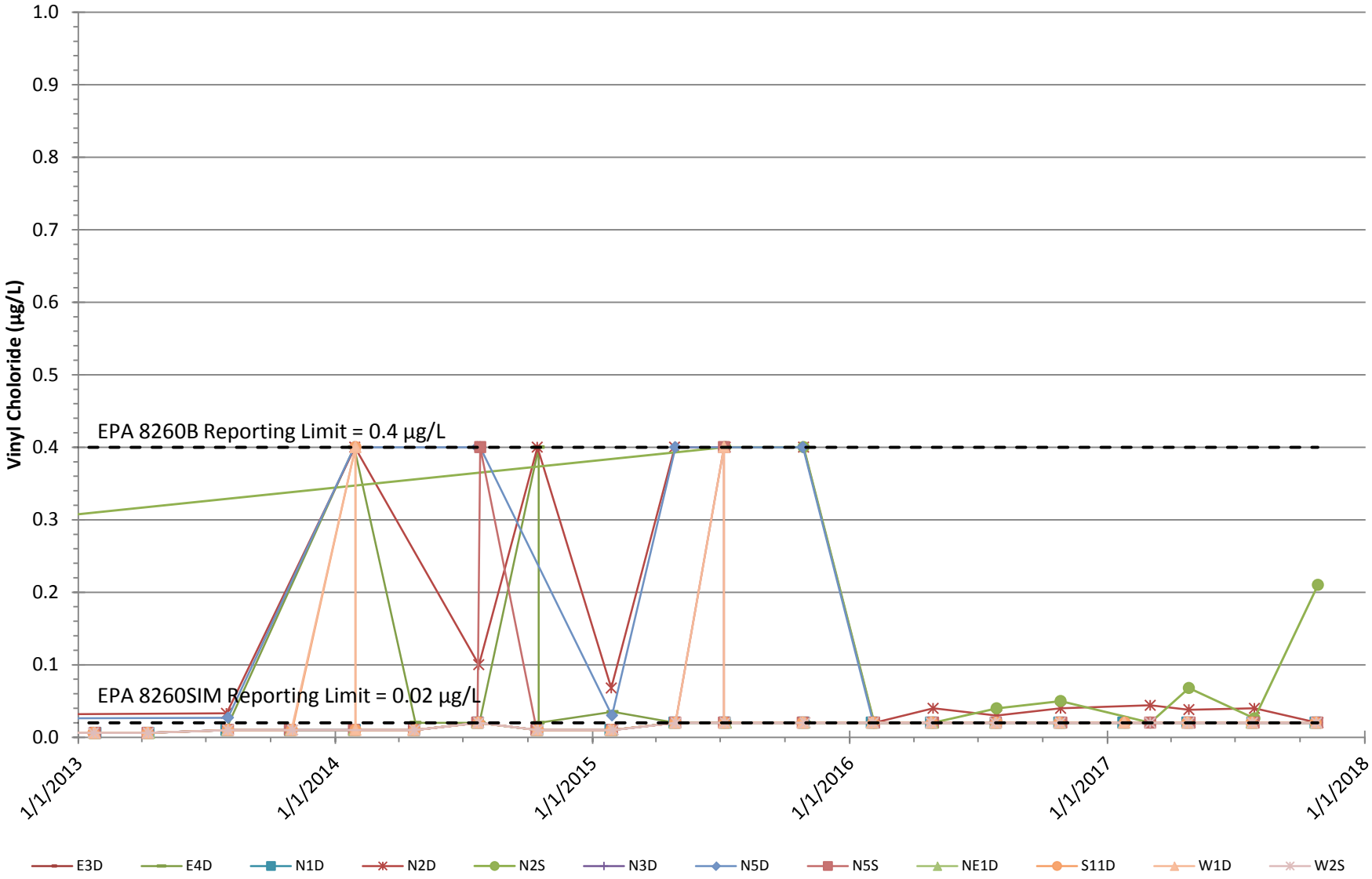
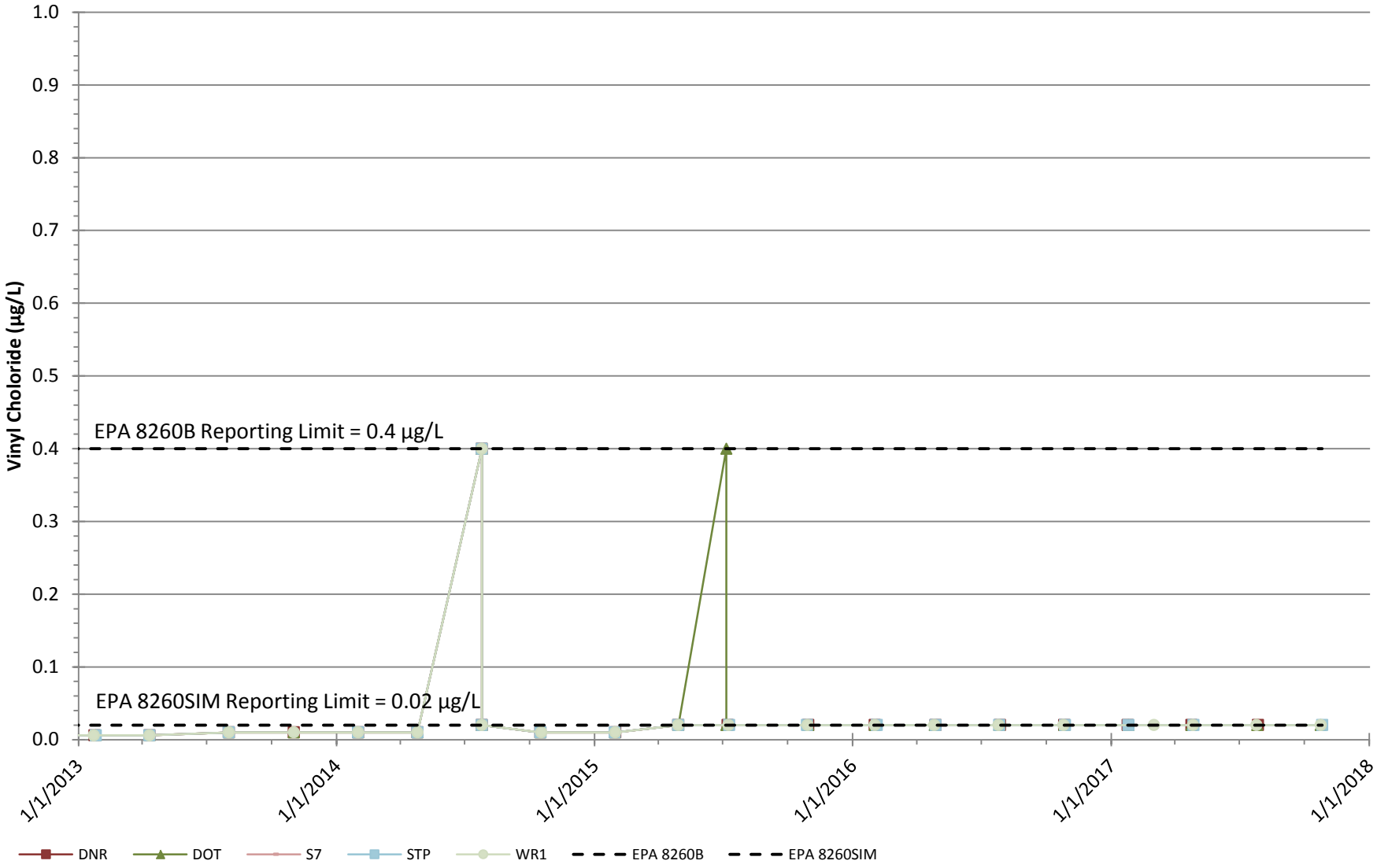


Table C34 - Vinyl ChlorideTime Series - Pumping Wells
2017 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

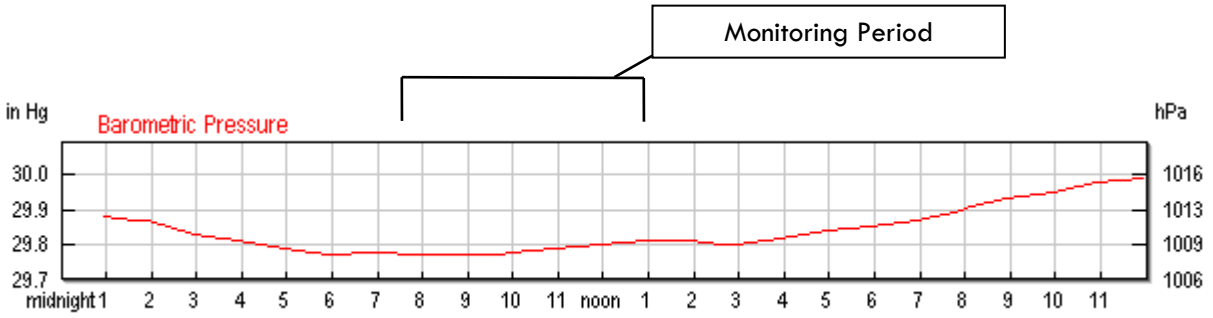


APPENDIX D

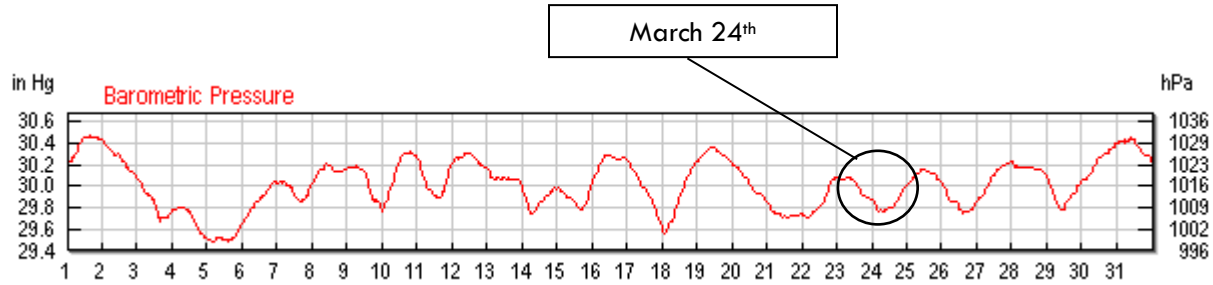
2017 BARAMETRIC PRESSURE DATA

Figure D-1. Barometric Pressure Trends for March 2017
First Quarter 2017 Data Review
Coupeville Solid Waste Facility, Island County, Washington

Barometric Pressure Trend for March 24th, 2017



Barometric Pressure Trend for March 2017

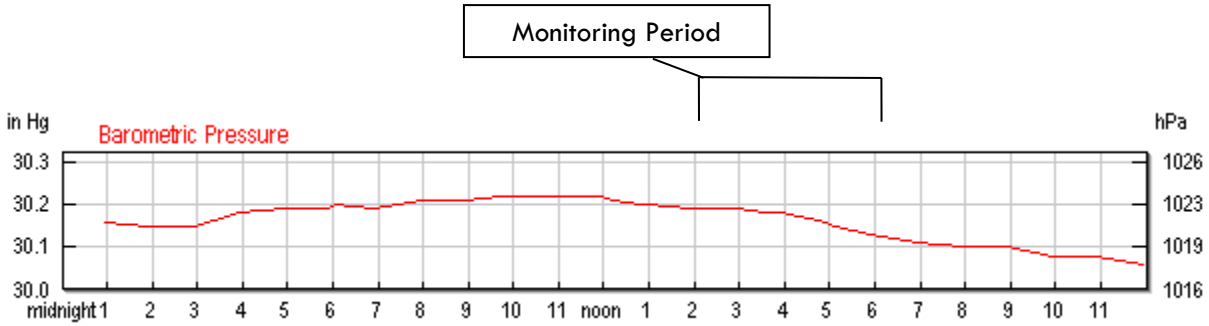


Source: Oak Harbor, Washington

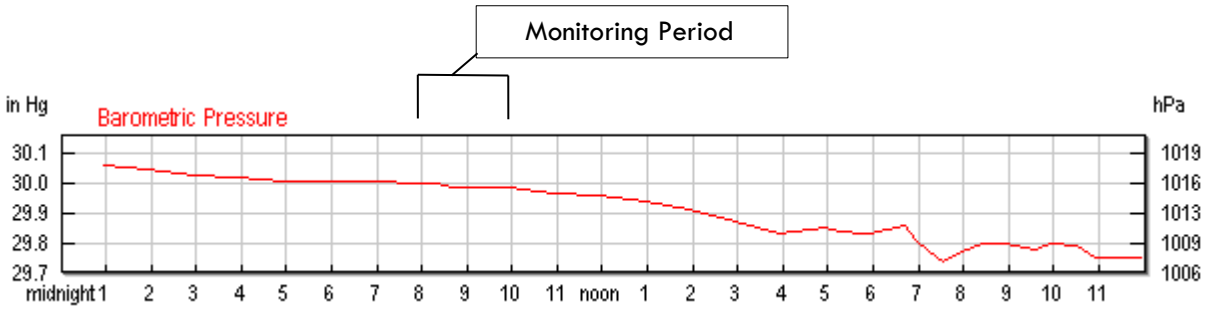
https://www.wunderground.com/history/airport/KNUW/2017/3/1/MonthlyHistory.html?req_city=Oak+Harbor&req_state=WA&req_statename=&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999

Figure D-2. Barometric Pressure Trends for May 2017
Second Quarter 2017 Data Review
Coupeville Solid Waste Facility, Island County, Washington

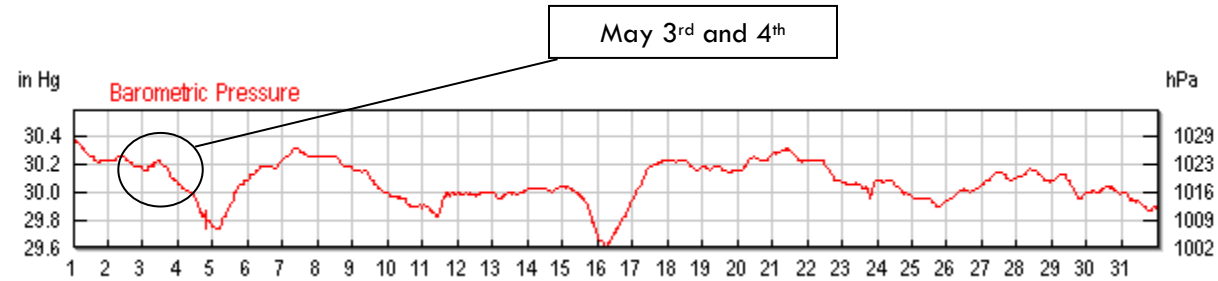
Barometric Pressure Trend for May 3rd, 2017



Barometric Pressure Trend for May 4th, 2017



Barometric Pressure Trend for May 2017

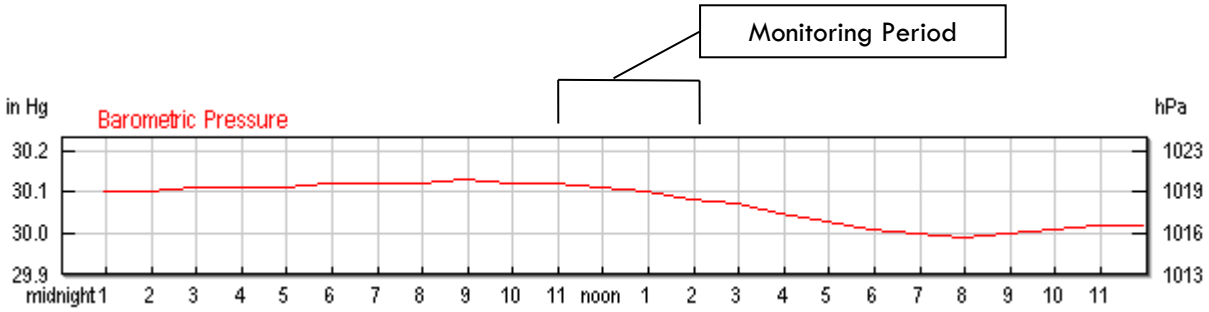


Source: Oak Harbor, Washington

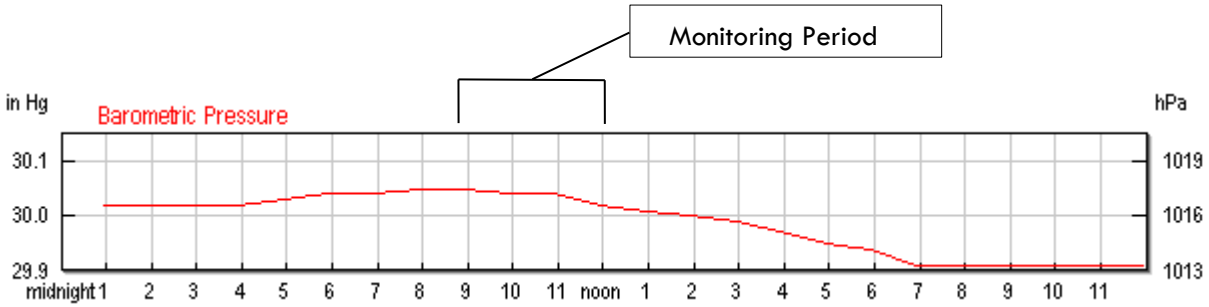
https://www.wunderground.com/history/airport/KNUW/2017/5/4/MonthlyHistory.html?req_city=Oak%20Harbor&req_state=WA&reqdb.zip=98277&reqdb.magic=1&reqdb.wmo=99999

Figure D-3. Barometric Pressure Trends for August 2017
Third Quarter 2017 Data Review
Coupeville Solid Waste Facility, Island County, Washington

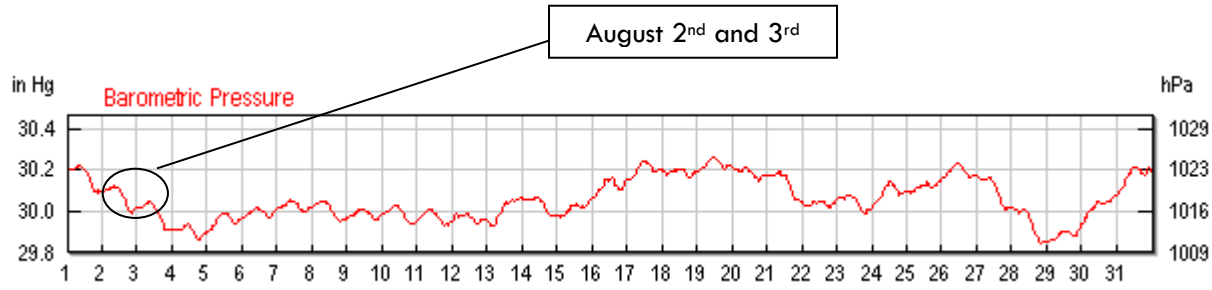
Barometric Pressure Trend for August 2nd, 2017



Barometric Pressure Trend for August 3rd, 2017



Barometric Pressure Trend for August 2017

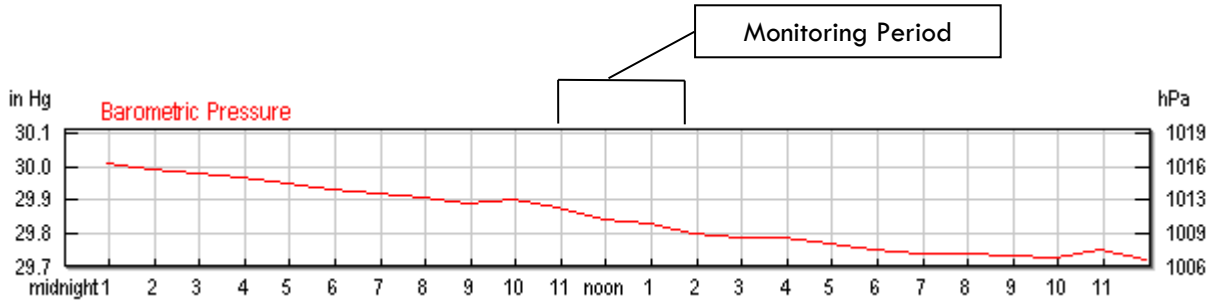


Source: Oak Harbor, Washington

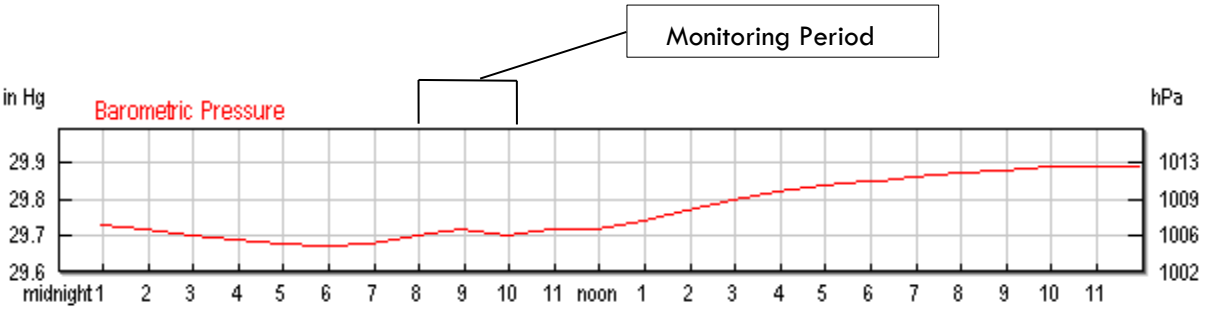
https://www.wunderground.com/history/airport/KNUW/2017/8/3/MonthlyHistory.html?req_city=Whidbey+Island&req_state=WA&req_statename=&reqdb.zip=98278&reqdb.magic=4&reqdb.wmo=99999&MR=1

Figure D-4. Barometric Pressure Trends for November 2017
Fourth Quarter 2017 Data Review
Coupeville Solid Waste Facility, Island County, Washington

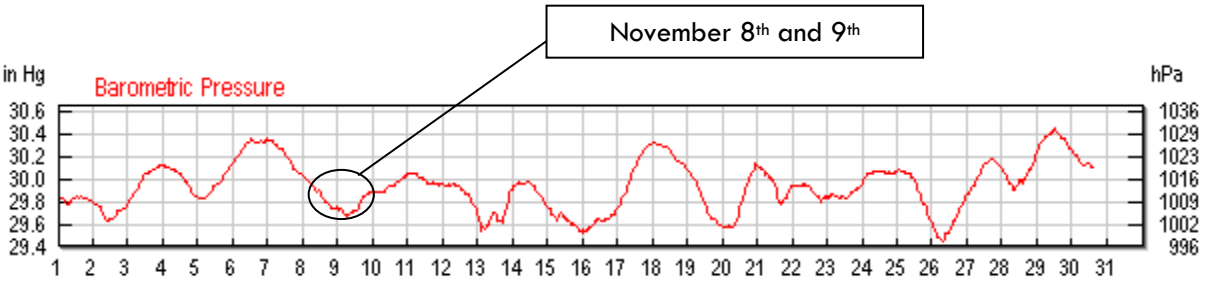
Barometric Pressure Trend for November 8th, 2017



Barometric Pressure Trend for November 9th, 2017



Barometric Pressure Trend for November 8th and 9th, 2017



Source: Oak Harbor, Washington

https://www.wunderground.com/history/airport/KNUW/2017/8/3/MonthlyHistory.html?req_city=Whidbey+Island&req_state=WA&req_statename=&reqdb.zip=98278&reqdb.magic=4&reqdb.wmo=99999&MR=1