2022 Annual Monitoring Report

Island County Solid Waste Facility
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Coupeville, Washington

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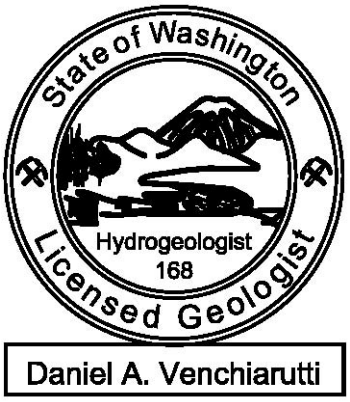
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This 2022 Annual Monitoring Report for the Coupeville Solid Waste Facility located at 20062 State Route 20 in Coupeville, Washington, was prepared by Daniel Venchiarutti, LHG and was reviewed by Greg Helland, LHG, of SCS Engineers.

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1.0 INTRODUCTION

This Annual Report provides a summary of the field and laboratory results for the 2022 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 2022 reporting period included sampling and analysis of groundwater (monitoring wells and nearby water supply wells), monitoring of landfill gas (LFG) probes, and source control operations including stormwater collection and LFG well management. This work was conducted in accordance with the *CSWF Groundwater Sampling and Analysis/Quality Assurance Plan* (SAP/QAP, version 1.1) dated April 2018 and the *Landfill Gas Monitoring Plan* dated September 2002, modified in 2005 and 2008 (SCS Engineers).

Post-closure groundwater monitoring is performed at the CSWF, consistent with the requirements of WAC 173-304. In 2017, the CSWF proposed a groundwater monitoring optimization program intended to enhance the effectiveness of the sampling regime. The updated monitoring program provides for quarterly water quality sampling at 11 CSWF groundwater wells. An additional 16 monitoring wells are also sampled on a semi-annual basis (during the second and fourth quarter events). The updated program is documented in the 2018 CSWF SAP/QAP (revision 1.1).

Over the current compliance year, 11 groundwater wells were monitored during the first and third quarters of 2022, 27 groundwater wells were monitored as part of the second quarter 2022 event, and 26 groundwater wells were monitored as part of the fourth quarter 2022 event. Routine compliance well E1D was not sampled during the fourth quarter event due to the failure of the dedicated pumping equipment. A replacement pump was subsequently installed which will permit this well to be sampled during its next scheduled monitoring event. The environmental monitoring and sampling activities during 2022 were performed by SCS Engineers and SCS Field Services.

1.1 REPORT CONTENTS

The 2022 Annual Monitoring Report includes and describes:

- Background and site description (including figures of site location and facility layout).
- A summary of the 2022 monitoring effort.
- Measurement of groundwater levels at the sampled monitoring wells.
- LFG monitoring at
  - 10 subsurface perimeter probe locations (44 points) and
  - 2 probe locations within onsite buildings (two points within the scale house/office).
- Groundwater field measurements and sample collection for monitoring and water supply wells.
- An evaluation and summary of the 2022 groundwater elevation/flow direction, field monitoring, and analytical data.
- A summary of the 2022 LFG monitoring results.
- A summary of the contaminant source control operation results.
- A comparison and summary of 2022 analytical data to regulatory criteria.

- A geochemical evaluation of recent (2022) 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 2022.
- 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 groundwater monitoring results reported for the CSWF over the 2022 compliance year remains generally consistent with those previously observed at the site. Water quality within or immediately adjacent to the closed waste disposal areas continues to be influenced by detectable concentrations of several volatile organic compounds (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 is ongoing, with reduced concentrations of the primary landfill contaminants in monitoring wells situated 400 to 750 feet downgradient of the disposal areas.

Vinyl chloride remains the most notable site contaminant at the CSWF, with groundwater exceedances being historically reported as far downgradient as monitoring wells E4S/E4D (approximately 400 feet northeast from the landfill edge). However, during recent years vinyl chloride has typically been absent in the CSWF wells situated beyond the immediate vicinity of the landfill. Groundwater samples collected from Aquifer 2 "sentinel" wells E9D and E10D, situated hydrologically downgradient of the observed vinyl chloride plume, have never reported detectable levels of VOCs (with the exception of three suspected laboratory artifact results that were reported during the First Quarter 2021 monitoring event). Overall, the 2022 monitoring results continue to corroborate the findings of past groundwater assessment and modeling 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.

Groundwater quality criteria for specific conductivity, sulfate, total dissolved solids, total nitrate/nitrite, arsenic, iron, manganese, 1,1-dichloroethane, and vinyl chloride were exceeded in one or more wells during 2022. The WAC 173-200 groundwater criteria for vinyl chloride was exceeded in four Aquifer 1 monitoring wells (E1D, E2S, E4S and N2S) and four Aquifer 2 wells (E2D, E6D, E7D and N2D) during the reporting year. These results are consistent with previous monitoring at the facility.

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). Long term trends indicate that concentrations of the primary groundwater contaminants of concern (iron, manganese and vinyl chloride) are stabilized or have been gradually decreasing over the past several years.

Some exceptions to this overall trend were noted during 2022. Increasing short term trends in concentration were observed for specific conductivity and iron in Aquifer 2 well E6D and for total dissolved solids (TDS) in Aquifer 2 wells E6D, E7D and E8D. However, as illustrated on the time-series graphs provided in Appendix C, few of these short term increasing trends represent large concentration changes.

Groundwater elevations at the site have been stable or gradually increasing over the past five years. The groundwater flow directions within Aquifer 1 and Aquifer 2 remain consistently towards the east-northeast and north-northeast, respectively. The average groundwater flow velocity over 2022 in Aquifer 1 was estimated to be higher (1.23 ft/day) than that calculated for Aquifer 2 (0.114 ft/day).

1.2.2 Landfill Gas Probes

LFG monitoring was conducted at approximately 45-day intervals throughout 2022. LFG probe monitoring results continue to indicate that LFG (represented by combined methane and carbon dioxide) remains present in the soils surrounding the landfill. Similar to previous years, carbon dioxide was the predominant component of LFG detected over the 2022 compliance period. Depressed oxygen levels (less than ambient concentrations) were also reported in most of the gas probes during the year. Depressed oxygen is associated with the displacement of air by LFG.

LFG regulatory requirements only apply to the methane component due to its explosive and flammable nature. Throughout the 2022 monitoring period, the CSWF 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 municipal solid waste (MSW) and construction, demolition and land-clearing (CDL) debris fill areas. 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.

A total of 8,901 gallons of stormwater runoff from the closed MSW landfill and CDL landfill covers was pumped from the collection system sump near monitoring well C1S during 2022 and discharged to the infiltration pond west of the disposal areas. Cumulatively, a total of 305,954 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.

Between November 22, 2005 and December 27, 2022, the LFG extraction system operated an average of 5.14 hours per day and the SVE system operated an average of 9.72 hours per day. These operational times are managed to balance extraction rates with the gas generation rate. The existing LFG extraction system operations continue 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 Memorandum*, 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 MSW disposal areas and one closed CDL debris disposal area. 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 the preceding mining (quarry) activities. The County MSW Landfill has no bottom liner system. The cover system for the County MSW Landfill consists of the following from top to bottom: grass vegetation, 6 inches of topsoil, 18 inches of drainage sand, composite 8 oz/yd2 non-woven geotextile / 250 mil HDPE drainage net / 8 oz/yd2 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. Past inspections by Island County Public Health (ICPH) suggested that small quantities of unacceptable materials may have been disposed of at the CDL Landfill.

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, and various county storage facilities. During 2018, an extensive expansion of the CSWF biosolids treatment facility was completed. All of the CSWF 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 two primary water-bearing zones and two confining (or semi-confining) layers beneath the CSWF. Regionally, groundwater flow in the upper aquifer (Aquifer 1) is reported to generally trend toward the east-northeast. Groundwater in the underlying aquifer (Aquifer 2) 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 (pumping) wells. Since its inception, the monitoring program has evolved to include both onsite and off-site well locations, as well as an expanded parameter suite. As previously noted, an optimized groundwater monitoring program was implemented at the CSWF during the first quarter 2018. 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, 11 single completion monitoring wells (three shallow, eight deep), and five water supply wells. Well W1D remains in the groundwater monitoring network, but paired shallow monitoring well (W1S) is not currently being monitored due to an insufficient amount of water in the well for sampling. Replacement well N1SR also remains in the groundwater monitoring network, although 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. A summary of the CSWF Aquifer 1, Aquifer 2 and pumping wells (and their installation dates) is provided in the exhibit below. The locations of the wells within the monitoring network are also illustrated on Figure 2.

Exhibit 1. CSWF Groundwater Monitoring Well Network (Installation Year)

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

A summary of the Aquifer 1, Aquifer 2 and water supply wells groundwater monitoring schedule is provided in Exhibit 2. Water quality monitoring at the CSWF is conducted on a quarterly basis at nine (9) Aquifer 2 groundwater wells and two (2) water supply wells. Two of these Aquifer 2 wells (E2D and E4D) are only sampled for VOCs during the first and third quarter events. An additional, nine (9) Aquifer I wells, six (6) Aquifer 2 wells, and one water supply well are monitored semi-annually (during the second and fourth quarters). One Aquifer 1 well (E1S) is only sampled for nitrates during these semi-annual events. During the fourth quarter monitoring event of 2022, Aquifer 1 well (E1D) could

not be sampled due to a pump housing malfunction. During 2022, groundwater monitoring was performed by SCS Engineers in January, April, July, and October.

Exhibit 2. CSWF Groundwater Monitoring Schedule

Monitoring Frequency	Groundwater Monitoring Wells		Water Supply Wells
	Aquifer 1 Wells	Aquifer 2 Wells	
Quarterly Event		E2D* E4D* E5D E6D E7D E8D E9D E10D N2D	DNR WRI
Semi-Annual Event (Additional wells sampled during the Second & Fourth Quarters)	E1D E1S** E2S E4S N2S N3S NE1S S10S S11S	E3D N1D N3D N5D NE1D S11D	DOT

* Wells E2D and E4D are only sampled for VOCs during the first and third quarter events.
** Well E1S is only sampled for nitrates.

3.1 MONITORING ACTIVITIES

3.1.1 Water Level Measurements

As part of the routine groundwater monitoring program, static water levels at each well location were initially measured and recorded prior to initializing any well purging or groundwater collection procedures. Depth-to-water measurements (measured 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 groundwater elevations for each well location.

As part of the second (April) and fourth (October) quarter events, static water levels were measured at all of the water quality monitoring wells sampled. The resulting water table elevation data were used for the semi-annual determination of groundwater flow characteristics.

3.1.2 Sample Collection and Analysis

Groundwater samples were collected each quarter from the monitoring 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 by filling laboratory-prepared sample bottles directly from the pump discharge line (to prevent cross-contamination). 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.

The objective of purging a 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. In addition, a water flow meter was installed at non-potable water supply well DOT so that its water production could be recorded each time the location was sampled.

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

The SAP/QAP calls for analyses including:

- 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 methods 300/353.2/350.1
- 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)

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

3.2 RESULTS

3.2.1 Groundwater Elevations

Groundwater elevations in the Aquifer 1 (shallow aquifer) during 2022 ranged between 64.54 (E4S in October) to 85.48 (W1S in October) feet above mean sea level (msl). Aquifer 2 (deep aquifer) groundwater elevations recorded over the same period ranged from 48.43 (E10D in July) to 60.41 (S11D in April) feet above msl. 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 routinely monitored CSWF 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 and Aquifer 2 on Figures 3 and 4, respectively.

As illustrated on Figures 3 and 4, groundwater elevations at the CSWF appear be gradually rising in most of the Aquifer 1 and Aquifer 2 wells 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 2.0 foot range depending on well location.

Groundwater surface elevation maps were prepared (refer to Figures 5A/B and 6A/B) for Aquifer 1 and Aquifer 2. These figures display the potentiometric surfaces and groundwater flow directions observed during April and October 2022. Little change was noted in groundwater flow direction over the course of the 2022 compliance period.

The groundwater elevation surface maps for Aquifer 1 (Figures 5A and 6A) depict a generally easterly flow direction. The average hydraulic gradient for Aquifer 1 was generally consistent throughout the reporting year. The calculated gradients for Aquifer 1 during April and October 2022 averaged 0.0139 feet/feet. 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 calculated for Aquifer 1 during 2022 averaged 1.23 feet/day.

The groundwater elevation surface maps for Aquifer 2 (Figures 5B and 6B) depict a flow direction to the north-northeast. Hydraulic gradients calculated for Aquifer 2 during April and October 2022 averaged 0.0040 feet/feet. 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 average groundwater flow velocity during 2022 in Aquifer 2 was calculated to be 0.114 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). The water meter installed at pumping well DOT indicated that 5,859 gallons of non-potable water (mostly used for road application or fire fighting) had been pumped from this well between October 2021 and October 2022.

3.2.2 Water Quality

Measurement of field parameters and results from laboratory analyses for general chemistry and metals for 2022 are presented in Tables 2A through 2C. Results from laboratory analyses for VOCs

are presented in Tables 3A through 3C. A summary of VOC detections is also provided in Table 4. Field documentation for the 2022 groundwater monitoring events is presented in Appendix A.

3.2.2.1 Field Parameters

Field parameters were recorded during the monitoring events and documented on field forms (included in Appendix A). A summary of field parameter results for Aquifer 1, Aquifer 2 and the water supply wells is provided by Tables 2A, 2B and 2C, respectively. The range of monitored field parameters recorded at the CSWF over the reporting year is presented below in Exhibit 3, along with a brief assessment of these 2022 results.

Exhibit 3. 2022 Range of Field Parameters

Field Parameter	Range of Measurements	Notes
Dissolved Oxygen (DO)	0.38 to 8.60 mg/L	Anaerobic conditions continue to be observed in the majority of CSWF wells, and at similar ranges as reported during past monitoring years. Aquifer 1 reported the greatest range in DO, ranging between 0.38 to 7.03 mg/L. Excepting a suspect 8.6 mg/L measurement in E3D during the April event, Aquifer 2 and the water supply wells generally reported <5 mg/L DO levels.
Oxidation-Reduction Potential (ORP)	-175 to 227 mV	ORP values varied widely across the site in Aquifer 1, Aquifer 2 and the water supply wells. Negative ORP levels appear to be more prevalent at downgradient and cross-gradient well locations.
pH	6.62 to 8.37 SU	pH values were similar those reported in past monitoring years with the majority of Aquifer 1, Aquifer 2 and the water supply samples reporting levels between 6.7 to 7.7 standard units (SU). Results in excess of 8.0 are suspected to represent faulty measurements.
Specific Conductance (SC)	514 to 1,874 µS/cm	Aquifer 1 and Aquifer 2 wells reported similar range of SC measurements (between 869 to 1,762 µS/cm and 514 to 1,840 µS/cm, respectively). Water supply wells reported a narrower SC range between 766 to 902 µS/cm. Higher SC typically occurred in the near refuse wells.
Temperature	9.0 to 17.1 ^{0}C	Varies seasonally at all well locations, and appears to largely represent ambient air temperatures during sample collection.
Turbidity	1.5 to 16.8 NTU	Generally low across the site (0.2 to 7.7 NTU). A 16.8 NTU measurement that was reported for Aquifer 1 well E4S during the April event is considered an isolated outlier.

Field parameters recorded over the 2022 reporting year remained within the typical ranges, similar to those reported in previous monitoring years.

3.2.2.2 General Chemistry

The general chemistry analytical results for the 2022 monitoring period are also summarized in Tables 2A through 2C. The range of monitored general chemistry parameters recorded at the CSWF over the reporting year is presented below in Exhibit 4, along with a brief assessment of the 2022 results.

Exhibit 4. 2022 Range of General Chemistry Parameters

Parameter	Range of Measurements	Notes
Total Alkalinity	190 to 790 mg/L	Total Alkalinity at the CSWF is principally composed of bicarbonate (HCO_3). Aquifer 1 alkalinity ranged from 300 to 690 mg/L, while Aquifer 2 alkalinity ranged from 190 to 790 mg/L. Water supply wells reported a narrower alkalinity range of 280 to 350 mg/L. The highest values are typically observed in E1D, E2D and E7D.
Ammonia	<0.25 to 0.84 mg/L	Ammonia was detected once (E6D in January) during the 2022 compliance year.
Calcium	29 to 260 mg/L	A similar range of calcium detections were observed in the Aquifer 1 and Aquifer 2 wells, while the water supply wells reported lower (61 to 84 mg/L) calcium results. Higher concentrations were generally observed in Aquifer 1 (E1D, E2S and E4S) and Aquifer 2 (E2D, E5D and E7D) wells proximal to the waste cells.
Chemical Oxygen Demand (COD)	<10 mg/L	COD was not detected at any wells at the CSWF in 2022
Chloride	12 to 110 mg/L	A slightly higher range of chloride results were reported in the Aquifer 2 wells compared to the Aquifer 1 and water supply wells. The 250 mg/L groundwater quality criterion for chloride was not exceeded during the 2022 compliance year.
Fluoride	<0.2 to 0.34 mg/L	Low fluoride levels were sporadically detected in two Aquifer 1 wells (E1D and S11S) and three Aquifer 2 wells (E5D, E7D and NE1D).
Magnesium	25 to 110 mg/L	Higher concentrations were generally observed in wells situated near refuse, including Aquifer 1 well E1D and Aquifer 2 wells E2D, E7D and N1D. The water supply wells reported a smaller range of magnesium detections ranging between 41 to 49 mg/L.
Potassium	4.7 to 15 mg/L	Potassium was detected at low concentrations in the majority of CSWF groundwater samples. Similar ranges were reported in Aquifer 1 (5.3 to 10 mg/L) and Aquifer 2 (4.7 to 15 mg/L). Water supply wells reported potassium levels ranging between 5.0 to 6.5 mg/L.
Sodium	14 to 46 mg/L	Sodium levels were consistently low across the CSWF, with Aquifer 1 (18 to 44 mg/L) and Aquifer 2 (14 to 46 mg/L) reporting a similar range of sodium concentrations. Sodium levels in the water supply wells were slightly lower ranging between 24 and 32 mg/L.
Sulfate	14 to 290 mg/L	Higher sulfate concentrations were generally observed in wells situated near refuse, including Aquifer 1 well E1D, as well as Aquifer 2 wells E7D and N1D. Water supply wells reported sulfate concentrations ranging between 23 and 59 mg/L. The 250 mg/L groundwater quality criterion for sulfate was exceeded during all four monitoring events in Aquifer 2 well E7D (ranging from 270 to 290 mg/L).

Total Dissolved Solids (TDS)	220 to 1,800 mg/L	Total dissolved solids (TDS) was reported at concentrations ranging between 220 (E9D in January) and 1,800 mg/L (E7D in October) over the compliance year. Aquifer 1 and Aquifer 2 wells reported TDS ranges of 530 to 1,100 mg/L and 220 to 1,800 mg/L, respectfully. Water supply wells reported lower TDS concentrations, ranging between 450 and 680 mg/L.
Nitrate/Nitrite	<0.4 to 22 mg/L	Aquifer 1 reported the greatest range of nitrate/nitrite detections (from ND to 22 mg/L. As noted in past years, this parameter was most elevated in S10S (22 mg/L during April and October), but routinely exceeded 5 mg/L in six of the remaining Aquifer 1 wells. The 10 mg/L groundwater quality criterion was exceeded in Aquifer 1 wells S10S and E1S over the reporting year. However, since both wells are situated generally cross gradient from the landfill, the latter nitrate/nitrite detections are suspected to be related to non-landfill sources.
Total Organic Carbon (TOC)	<1.0 to 19 mg/L	TOC ranged between <1.0 and 2.5 mg/L in the Aquifer 1 wells, 0.75 to 19 mg/L in the Aquifer 2 wells, and 1.1 to 2.1 mg/L in the water supply wells. The highest TOC results are typically observed in Aquifer 2 well E7D.

General chemistry parameters detected over the current compliance year remained within the typical ranges, similar to those reported in previous monitoring years.

3.2.2.3 Metals

Metals results for the 2022 reporting year are summarized below. Seven metals, including antimony, beryllium, cadmium, lead, selenium, silver, and thallium were either not detected or only sporadically reported above their respective laboratory reporting limits. Accordingly, these seven metals have been excluded from the discussion below. The range of total metal detections reported at the CSWF over the compliance year is presented below in Exhibit 5, along with a brief assessment of the 2022 results.

Exhibit 5. 2022 Range of Total Metals Parameters

Total Metal	Range of Measurements*	Notes
Arsenic	1.2 to 22 µg/L	Aquifer 1 arsenic concentrations varied from 1.2 to 5.7 µg/L. Aquifer 2 arsenic levels ranged between 1.2 and 22 µg/L. Water supply wells reported arsenic concentrations ranging between 2.2 and 6.2 µg/L. The highest arsenic results were observed at Aquifer 2 well E9D.
Barium	15 to 110 µg/L	Low barium concentrations were observed in most CSWF wells. Aquifer 1 and water supply wells reported a narrower range of barium concentrations (27 to 56 µg/L and 20 to 27 µg/L, respectably). Aquifer 2 reported slightly higher barium levels ranging between 15 and 110 µg/L. No site-wide or seasonal trends are apparent.
Chromium	<0.4 to 10 µg/L	Aquifer 1 chromium detections ranged between 4.5 and 10 µg/L. Chromium detections in Aquifer 2 wells varied between 0.96 and 1.3 µg/L. Water supply wells reported chromium detections ranging from 1.7 to 3.4 µg/L.
Cobalt	<0.2 to 3.1 µg/L	Cobalt was reported at least once in Aquifer 1 well E2S and Aquifer 2 wells E7D and N1D at concentrations ranging from 0.44 to 3.1 µg/L. The highest concentrations were observed at Aquifer 2 well E7D. Cobalt was not detected in any of the water supply wells.

Copper	<1 to 46 µg/L	Copper was reported in Aquifer 1 well NE1S and Aquifer 2 well E7D at concentrations ranging from 2.4 to 4.6 µg/L. Copper was also detected in water supply wells DNR and WR1 during all four quarters at concentrations ranging from 2.7 to 46 µg/L.
Iron	<120 to 2,400 µg/L	Iron concentrations ranged between 120 and 2,400 µg/L. Iron was reported in excess of the 300 µg/L groundwater quality criterion at least once in the majority of the Aquifer 2 wells. Water supply well DOT reported iron concentrations ranging between 700 and 830 µg/L.
Manganese	<10 to 750 µg/L	Aquifer 1 wells reported manganese detections varying between 50 and 540 µg/L. Aquifer 2 manganese detections ranged from 25 to 750 µg/L. Water supply well DOT reported a manganese concentration of 170 µg/L during the April and October events. The highest manganese levels were reported in Aquifer 2 well E7D.
Nickel	<1 to 30 µg/L	Nickel detections in the Aquifer 1 wells ranged between 3 and 6 µg/L. Aquifer 2 nickel detections showed the greatest variation, ranging between 4.3 and 30 µg/L. Nickel was not detected in any of the water supply wells over the reporting year.
Vanadium	<2 to 9.9 µg/L	Vanadium was detected at low concentrations in five Aquifer 1 wells at concentrations ranging between 4.2 and 6.3 µg/L. Vanadium was reported in Aquifer 2 wells E2D and E7D at concentrations ranging between 5.5 and 9.9 µg/L. Water supply well DNR reported vanadium at concentrations ranging between 5.9 and 6.9 µg/L.
Zinc	<7 to 200 µg/L	Zinc was not reported in any of the Aquifer 1 or 2 groundwater wells. All of the water supply wells reported zinc detections ranging between 7.5 to 200 µg/L. The highest zinc result was reported at water supply well DOT (200 µg/L) during the fourth quarter event.

* Metals results are being reported in micrograms per liter (µg/L) for Exhibit 5 and Tables 2A, 2B and 2C at the request of Ecology Solid Waste.

The total metals results observed at the CSWF during 2022 compliance period remained within typical ranges, similar to those reported in previous monitoring years.

3.2.2.4 Volatile Organic Compounds

Tables 3A through 3C present the volatile organic compound results obtained over the reporting period. Table 4 summarizes the VOCs that were detected during 2022 in the routinely monitored groundwater wells. Five VOCs were detected in groundwater samples collected from the CSWF monitoring wells during compliance year. Four VOCs including 1,1,1–trichloroethane, 1,1-dichloroethane, trichlorofluoromethane and vinyl chloride were the most frequently reported. The range of VOC detections reported at the CSWF over the compliance year is presented below in Exhibit 6, along with a brief assessment of the 2022 results.

Exhibit 6. 2022 Range of Volatile Organic Compounds

Field Parameter	Range of Measurements	Notes
1,1,1–Trichloroethane	0.32 to 0.54 µg/L	1,1,1-Trichloroethane was detected in two Aquifer 1 wells (N2S and S10S at concentrations ranging between 0.32 and 0.45 µg/L) and two Aquifer 2 wells (E2D and E7D at concentrations ranging between 0.40 and 0.54 µg/L).
1,1-Dichloroethane	<0.20 to 3.1 µg/L	1,1-Dichloroethane was detected in three monitoring wells during the reporting year (Aquifer 1 well N2S at concentrations ranging between 0.28 and 0.34 µg/L, Aquifer 2 well E2D at 0.21 µg/L, and Aquifer 2 well E7D at concentrations ranging between 2.6 and 3.1 µg/L).

Carbon Disulfide	<0.3 to 0.34 µg/L	Carbon disulfide was detected just above the laboratory detection limit in Aquifer 2 wells E6D and E8D during the April monitoring event.
Trichlorofluoromethane	<0.5 to 120 µg/L	Trichlorofluoromethane was detected at seven CSWF locations during 2022, including four Aquifer 1 wells (E2S, N2S, N3S, and S10S) and three Aquifer 2 wells (E2D, E7D and N2D). Aquifer 1 concentrations ranged between 1.3 and 5.6 µg/L, while Aquifer 2 levels ranged between 0.75 and 120 µg/L. The most elevated trichlorofluoromethane levels occurred in downgradient well E7D (ranging from 88 to 120 µg/L).
Vinyl Chloride	<0.02 to 17 µg/L	Vinyl chloride was detected once in four Aquifer 1 wells (E1D, E2S, E4S and N2S) and four Aquifer 2 wells (E2D, E6D, E7D and N2D) over the compliance year. The majority of these wells are located within or immediately adjacent to the disposal areas. The most elevated vinyl chloride levels were detected in wells E2D (ranging from 16 to 17 µg/L) and E7D (ranging from 1.2 to 1.9 µg/L).

The remaining Aquifer 1 or Aquifer 2 monitoring wells downgradient of the former disposal areas, including the two downgradient Aquifer 2 "sentinel wells" (E9D and E10D) situated near the downgradient facility border, did not report any VOC detections during the 2022 compliance period. In addition, VOCs were not detected in any of the water supply wells monitored over the reporting period. Consistent with previous results, the majority of the VOC detections occurred in wells that are located within or immediately adjacent to the disposal areas.

3.2.2.5 Groundwater Data QA/QC

All analytical data reported by the primary testing laboratory (Eurofins Fife, WA) over the 2022 compliance year 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 provided for 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. Data flags have been appended to the 2022 testing results as appropriate. The 2022 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.

3.2.3 Groundwater Quality Criteria Comparison

All analytical results were compared to the water quality criteria for groundwater 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 2022 reporting year can be found on Table 5. Water quality criteria for nine analytes were exceeded during the compliance period as shown below in Exhibit 7.

Exhibit 7. 2022 Groundwater Exceedances

Parameter	WAC 173-200 Groundwater Standard	Notes
Specific Conductance	700 µS/cm*	The WAC 173-200 and secondary drinking water standards for specific conductance were exceeded in 9 Aquifer 1 wells, 10 Aquifer 2 wells and all three water supply wells.
Sulfate	250 mg/L	The WAC 173-200 and secondary drinking water standards for sulfate were exceeded during all four quarters in Aquifer 2 well E7D.
Total Dissolved Solids (TDS)	500 mg/L*	The WAC 173-200 and secondary drinking water standards for TDS were exceeded in eight Aquifer 1 wells, 13 Aquifer 2 wells and all three water supply wells. While some of the reported exceedances are likely due to effects from past waste disposal activities, many of the exceedances are thought to be due to natural water quality. Wells in central Island County routinely report TDS levels on the order of 500-800 mg/L.
Nitrate	10 mg/L*	The WAC 173-200 and primary drinking water standards for nitrate were exceeded in Aquifer 1 wells E1S (twice) and S10S (once). Aquifer 2 well E2D also reported an anomalous, low-level, nitrate exceedance during the April event. Given the generally cross-gradient locations of the Aquifer 1 wells which have historically detected nitrate, these exceedances do not appear to be directly attributable to the CSWF waste disposal cells.
Arsenic	0.05 µg/L**	The WAC 173-200 groundwater quality criterion for arsenic was exceeded in the majority of CSWF groundwater monitoring and water supply wells. The primary MCL of 10 µg/L was also exceeded in each of the samples collected from Aquifer 2 well E9D. The source of the elevated arsenic detections reported in downgradient well E9D remains unclear. However, given the significantly lower arsenic levels observed around and immediately downgradient of the CSWF waste cells, this detection does not appear to be related to the landfill.
Iron	300 µg/L *	The WAC 173-200 and secondary drinking water standards for iron were exceeded at least once in seven Aquifer 2 wells (E4D, E5D, E6D, E8D, E10D, N1D and S11D) and water supply well DOT. It should be noted that the water supply wells are not constructed to be environmental monitoring wells, and are prone to produce higher turbidity samples, which are considered to provide less representative groundwater results.
Manganese	50 µg/L*	The WAC 173-200 and secondary drinking water standards for manganese were exceeded at least once in 14 wells, including two Aquifer 1 wells, twelve Aquifer 2 wells, and water supply well DOT.
1,1-Dichloroethane	1.0 µg/L	The WAC 173-200 standard for 1,1-dichloroethane was exceeded in Aquifer 2 well E7D for each 2022 monitoring event.
Vinyl Chloride	0.02 µg/L	The WAC 173-200 groundwater criterion for vinyl chloride was exceeded at least once in eight CSWF wells, including: four Aquifer 1 wells (E1D, E2S, E4S and N2S) and four Aquifer 2 wells (E2D, E6D, E7D and N2D). Concentrations in Aquifer 2 well E2D also exceeded the primary MCL of 2 µg/L. Vinyl chloride was not detected in any of the water supply wells during 2022.

* Secondary MCL for this parameter is equal to the WAC 173-200 standard.
** Primary MCL for arsenic is 10 µg/L.

Groundwater quality exceedances observed at CSWF during 2022 compliance period remain generally similar in to those reported during previous monitoring years.

3.3 EVALUATION OF GROUNDWATER QUALITY

3.3.1 Spatial Distribution

Groundwater analytical and field parameter results for the 2022 reporting year reflect the continuing influence of past waste disposal activities on groundwater quality at the CSWF. As reported during past compliance reports, groundwater wells within or immediately adjacent to the disposal area continue to report elevated concentrations relative to background conditions for the following parameters of interest:

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

These elevated parameter concentrations generally occur 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 continue to 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 noteworthy that vinyl chloride levels in the majority of Aquifer 2 wells appear to be gradually declining when compared to historical results. In addition, groundwater samples collected from downgradient "sentinel" wells E9D and E10D have never detected the presence of vinyl chloride.

3.3.2 Temporal Trends

Statistical analysis for 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 6. 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 previous monitoring 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 below in Exhibit 8. These trends are generally similar to those reported during previous compliance years, and are overall indicative of stable groundwater conditions.

Exhibit 8. Summary of Short-Term (2021-2022) Concentration Trends

Parameter	Aquifer Type	Wells with Increasing Trends	Wells with Decreasing Trends
Specific Conductance	1	None	None
	2	E6D	None
	WS	None	None
Nitrate/Nitrite, total	1	None	None
	2	None	None
	WS	None	None
Sulfate	1	None	None
	2	E5D	None
	WS	None	None
TDS	1	None	None
	2	E6D, E7D, E8D	None
	WS	WR1	None
Arsenic	1	None	None
	2	None	None
	WS	None	DNR, WR1
Iron	1	None	None
	2	E6D	None
	WS	None	None
Manganese	1	None	None
	2	None	E9D
	WS	None	None
Vinyl chloride (not detected in WS wells)	1	None	None
	2	None	None

These short-term (2 year) trends are also discernable in the 5-year time (2018-2022) series diagrams (C1 through C34) attached to Appendix C. As illustrated by these time-series charts, few of the observed short term increasing trends show significant concentration changes.

3.3.3 Groundwater Geochemistry

The geochemical character of groundwater collected from Aquifer 1, Aquifer 2 and the water supply wells during the 2022 semi-annual monitoring events was evaluated using the Piper diagrams and cation/anion balance tables attached to Appendix C. As shown 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 reporting years, these diagrams indicate that the dominant anion in the groundwater samples continues to be bicarbonate, while the cations are 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 2022 compliance period reported relative percent differences (RPD) ranging between negative (–) 3.43 and 6.05 percent. Positive values indicate that the sum of the cations is greater than the sum of the anions. Ion balances outside a (+/-)ten percent RPD threshold may reflect possible errors associated with analytical limitations in the measurements (as noted above) 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) and a perimeter probe monitoring network was installed at the landfill in 1988 (Figure 7). 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 8 and 9. A cross sectional view of these systems is shown on Figure 10. 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 placed 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. New high efficiency blowers were installed for both the LFG system and the SVE system in 2015.

Both the LFG and SVE systems operated normally throughout 2022.

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 and carbon dioxide) and depressed oxygen concentrations and relative soil pressures, if applicable.

The LFG probes that are currently monitored include:

- Perimeter Probes (11 total)
- Building Probes (7 total)
- On-site structures - Scale House (2 locations)

LFG probe and structure monitoring locations are illustrated on Figure 7. Note that many of the probe locations include a shallow and deep probe (S and D designations, respectively).

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. 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 2022 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 2022 are presented in Table 7.

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.

Methane (>0.3 percent by volume) were recorded in several perimeter probes (GP-15S/D, GP-17S/D, GP-S6S/D during the first quarter event at low concentrations ranging between 0.6 to 1.6 percent by volume. Detectable methane concentrations were not reported in any of the perimeter probes during the remaining three quarters of 2022. The GP-30 location consist of a series of five probes which are completed within refuse and are where elevated methane concentrations are expected and have been historically observed. Methane concentrations in these probes ranged widely, from 0.3 to 54.2 percent by volume in 2022.

Carbon dioxide was reported during 2022 in all LFG probes, ranging from less than 0.3 to 19.7 percent by volume. Depressed oxygen concentrations were recorded during the reporting period in all of the LFG probes at values ranging between 0.0 and 20.3 percent by volume. Ten subsurface probes (GP-13S, GP-17D, GP-1D, GP-2353, GP-2398, GP-2498, GP-2598, GP-6S/D, GP-S6S, and GP-W1) reported oxygen concentrations above 20.3 during 2022, with most probes only reporting a single elevated measurement. Representative relative (static) pressure measured in the perimeter LFG probes during 2022 ranged from -0.20 to +1.05 inches of water.

4.2.2 Structures – Scale House

Methane was not detected in the scale house/office during the 2022 monitoring events. Carbon dioxide was detected above 0.3 percent by volume (between 0.5 and 1.0 percent by volume) at the scale house and office during two events (second and fourth quarters) during 2022. Indoor oxygen measurements were observed to range between 19.5 and 20.9 percent by volume in this structure during the compliance year.

4.3 LANDFILL GAS EVALUATION

The production of LFG 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 continuously declining due to the nature of the waste decomposition processes.

The dominant mechanism for LFG movement in the subsurface soils surrounding the CSWF 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 2022 monitoring results confirm that LFG (combined methane and carbon dioxide) remains present in the subsurface soils surrounding the historical disposal areas at relatively low and declining concentrations. 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 MEASURES

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. The systems operated normally throughout 2022.

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.

Between November 22, 2005 and December 27, 2022, the LFG extraction system operated an average of 5.14 hours per day and the SVE system operated an average of 9.72 hours per day, as summarized on Table 8. 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 7 through 10. These locations are monitored for primary LFG constituents, gas temperature, well pressure, system pressure and flow. 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 2022.

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 12. Operating parameter results for each system are summarized on Tables 9 and 10.

The LFG extraction system was operated under a daily intermittent cycle for a total of 31,694 hours between November 22, 2005 and December 27, 2022. Over this time the system has extracted an estimated 88,196,428 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 46,5 scfm during 2022, as extraction rates have converged with gas generation rates. The LFG composition at the blower inlet averaged 41.7 percent methane, 20.0 percent carbon dioxide, and 0.6 percent oxygen during 2022.

The SVE system operated under a daily intermittent cycle for a total of 59,959 hours from November 22, 2005 through December 27, 2022. During this time it has extracted an estimated 162,858,199 cubic feet of soil vapor/LFG from the native soil below the disposal areas. The rate of extraction was approximately 62.9 scfm during 2022. The soil vapor/LFG composition at the blower inlet averaged 2.8 percent methane, 15.1 percent carbon dioxide, and 2.0 percent oxygen in 2022.

5.2.2 Stormwater Collection from the Waste Disposal Areas

As summarized in Table 8 and Figure 11, over the period between October 25, 2005 and December 27, 2022, a total of 305,954 gallons of stormwater were pumped from the collection system sump and discharged to the infiltration pond west of the disposal areas. A total of 8,901 gallons of stormwater were pumped through the collection system during the 2022 reporting period.

5.3 EVALUATION 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. 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.

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 (88,196,428 cubic feet).
- Well coverage/influence over greater volume of refuse mass.
- Ability to adjust well extraction rates to match gas generation rates.
- The gas composition at the LFG blower inlet averaged 44.7 percent methane, 18.0 percent carbon dioxide, and 0.6 percent oxygen during 2022.

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 (162,858,199 cubic feet).
- The gas composition at the SVE blower inlet averaged 2.8 percent methane, 15.1 percent carbon dioxide, and 2.0 percent oxygen in 2022.

5.3.2 Stormwater Collection from 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 8,901 gallons of stormwater was removed during the 2022 compliance year. Prior to this improvement, this surface runoff and infiltration water flowed into the CDL Landfill.

6.0 CONCLUSIONS

Groundwater and LFG monitoring results obtained from the CSWF over the 2022 compliance period remain generally consistent with those reported during previous compliance years. Vinyl chloride remains the primary contaminant of concern in site groundwater. The most elevated vinyl chloride detections are consistently 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. Low level vinyl chloride exceedances are also reported in several of the Aquifer 1 wells located immediately downgradient of the waste disposal cells.

Vinyl chloride is absent in the CSWF wells situated beyond the immediate vicinity of the landfill. Groundwater samples collected from Aquifer 2 "sentinel" wells E9D and E10D, situated hydrologically downgradient of the observed vinyl chloride plume, have never reported detectable levels of vinyl chloride. These observations corroborate the findings of past groundwater assessment and 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. Vinyl chloride concentrations observed during 2022 remained stable or were slightly lower in most of the groundwater monitoring wells reporting detections. Overall, the 2022 results confirm that the continuation of the optimized groundwater monitoring program is warranted.

LFG monitoring results through 2022 continue to document 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 remove gases from the vadose zone and achieve a balanced extraction rate for the LFG wells. Current levels of operating, monitoring and system balancing will need to be maintained to ensure the optimum performance of both the LFG and SVE systems, while preventing potential detrimental conditions such as air intrusion and pulling of LFG into the vadose zone.

Tables

Table 1A. Five Year Historical Groundwater Elevations - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Location	E1D		E1S		E2S		E4S		N2S		N3S		NE1S		S10S		S11S		W1S	
Reference Elevation (ft. msl)	203.98		204.26		202.72		205.04		203.83		204.87		208.02		205.65		204.99		195.15	
Monitoring Event	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE	DTW	WLE
Q422	136.73	67.25	136.95	67.31	136.32	66.40	140.50	64.54	134.80	69.03	138.75	66.12	143.40	64.62	134.95	70.70	133.65	71.34	109.67	85.48
Q222	136.68	67.30	136.82	67.44	136.60	66.12	140.30	64.74	135.38	68.45	138.60	65.27	143.38	64.64	134.75	70.90	133.52	71.47	109.69	85.47
Q421	137.10	66.88	137.15	67.11	136.95	65.77	140.32	64.72	134.90	68.93	139.00	65.87	144.00	64.02	135.30	70.35	133.67	71.32	109.80	85.35
Q221	137.10	66.88	137.08	67.18	136.45	66.27	140.22	64.82	135.15	68.68	138.90	65.97	143.65	64.37	134.70	70.95	133.44	71.55	109.64	85.51
Q420	136.75	67.23	137.03	67.23	136.61	66.11	140.41	64.63	134.92	68.91	138.57	66.30	143.85	64.17	134.94	70.71	133.69	71.30	109.75	85.40
Q220	136.80	67.18	137.05	67.21	136.63	66.09	140.27	64.77	134.90	68.93	138.75	66.12	143.61	64.41	138.77	66.88	133.58	71.41	109.71	85.44
Q419	136.99	66.99	137.28	66.98	136.74	65.98	140.74	64.30	135.53	68.30	139.03	65.84	144.06	63.96	135.27	70.38	133.79	71.20	109.77	85.38
Q219	137.11	66.87	137.35	66.91	136.81	65.91	140.41	64.63	135.74	68.09	138.59	66.28	143.81	64.21	135.12	70.53	133.89	71.10	109.74	85.41
Q418	137.41	66.57	137.58	66.68	137.47	65.25	140.57	64.47	135.36	68.47	139.23	65.64	143.92	64.10	135.31	70.34	134.03	70.96	109.65	85.5
Q218	137.47	66.51	137.80	66.46	137.48	65.24	140.93	64.11	135.92	67.91	139.78	65.09	144.11	63.91	135.38	70.27	134.24	70.75	109.70	85.45

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

Table 1B. Five Year Historical Groundwater Elevations - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Location	E2D		E3D		E4D		E5D		E6D		E7D		E8D		E9D		E10D		N1D		N2D		N3D		N5D		NE1D		S11D	
Reference Elevation (ft-msl)	**202.52**		**204.13**		**205.40**		**198.56**		**202.97**		**200.50**		**203.13**		**209.75**		**210.01**		**191.51**		**203.48**		**204.39**		**204.84**		**207.82**		**205.07**	
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**
4Q22	146.12	56.40	149.00	55.13	151.70	53.70	143.25	55.31	146.20	56.77	144.15	56.35	147.20	55.93	160.10	49.65	160.78	49.23	134.37	57.14	146.27	57.21	148.38	56.01	148.58	56.26	156.27	51.55	144.70	60.37
3Q22	146.14	56.38	--	--	151.58	53.82	143.22	55.34	146.15	56.82	144.23	56.27	148.89	56.25	160.26	49.49	161.58	48.43	--	--	146.27	57.21	--	--	--	--	--	--	--	--
2Q22	146.55	55.97	149.28	54.85	151.69	53.71	143.40	55.16	146.21	56.38	144.12	56.38	147.21	55.92	160.02	49.73	161.33	48.68	134.55	56.96	146.39	57.09	148.46	55.93	147.60	57.24	156.30	51.52	144.66	60.41
1Q22	146.68	55.84	--	--	151.84	53.56	143.39	55.17	146.30	56.67	144.54	55.96	147.26	55.87	160.10	49.65	161.48	48.53	--	--	146.52	56.96	--	--	--	--	--	--	--	--
4Q21	146.90	55.62	149.50	54.63	151.90	53.50	143.59	54.97	146.80	56.17	144.80	55.70	147.28	55.85	160.22	49.53	161.65	48.36	134.80	56.71	146.60	56.88	148.80	55.59	148.30	56.54	156.76	51.06	144.97	60.10
3Q21	146.60	55.92	--	--	152.09	53.31	143.82	54.74	146.66	56.31	144.50	56.00	147.46	55.67	160.70	49.05	162.08	47.93	--	--	146.65	56.83	--	--	--	--	--	--	--	--
2Q21	146.62	55.90	149.50	54.63	151.97	53.43	143.73	54.83	147.00	55.97	144.55	55.95	147.43	55.70	160.28	49.47	161.71	48.30	134.80	56.71	146.80	56.68	148.83	55.56	148.07	56.77	156.65	51.17	144.92	60.15
1Q21	146.68	55.84	--	--	151.96	53.44	143.67	54.89	146.72	56.25	144.63	55.87	147.37	55.76	160.20	49.55	161.64	48.37	--	--	146.76	56.72	--	--	--	--	--	--	--	--
Q420	146.70	55.82	149.57	54.56	152.24	53.16	143.87	54.69	146.75	56.22	143.41	57.09	147.61	55.52	160.54	49.21	161.84	48.17	134.92	56.59	146.79	56.69	148.90	55.49	148.28	56.56	156.72	51.10	145.33	59.74
Q320	146.79	55.73	--	--	152.12	53.28	143.94	54.62	146.82	56.15	144.72	55.78	147.61	55.52	160.50	49.25	161.95	48.06	--	--	146.85	56.63	--	--	--	--	--	--	--	--
Q220	146.82	55.70	149.44	54.69	153.12	52.28	143.85	54.71	146.90	56.07	144.83	55.67	147.71	55.42	160.76	48.99	162.10	47.91	134.96	56.55	146.82	56.66	149.05	55.34	148.40	56.44	156.70	51.12	145.19	59.88
Q120	146.05	56.47	--	--	152.33	53.07	144.06	54.50	146.90	56.07	144.77	55.73	147.75	55.38	160.40	49.35	161.86	48.15	--	--	147.14	56.34	--	--	--	--	--	--	--	--
Q419	147.05	55.47	149.77	54.36	152.47	52.93	144.06	54.50	147.18	55.79	145.09	55.41	147.88	55.25	160.65	49.10	162.17	47.84	135.32	56.19	147.26	56.22	149.21	55.18	148.57	56.27	157.11	50.71	145.40	59.67
Q319	147.15	55.37	--	--	152.40	53.00	144.11	54.45	147.12	55.85	145.02	54.47	147.82	55.31	160.88	48.87	162.26	47.75	--	--	147.20	56.28	--	--	--	--	--	--	--	--
Q219	147.18	55.34	149.96	54.17	152.46	52.94	144.30	54.26	147.12	55.85	145.03	55.47	147.97	55.16	160.90	48.85	162.29	47.72	135.38	56.13	147.24	56.24	149.21	55.18	148.67	56.17	157.11	50.71	145.40	59.67
Q119	147.14	55.38	--	--	152.39	53.01	144.13	54.43	147.19	55.78	145.06	55.43	147.83	55.30	160.69	49.06	162.01	48.00	--	--	147.24	56.24	--	--	--	--	--	--	--	--
Q418	147.72	54.80	149.97	54.16	152.69	52.71	144.38	54.18	147.71	55.26	145.24	55.26	148.10	55.03	160.92	48.83	162.29	47.72	135.70	55.81	147.56	55.92	149.54	54.85	148.85	55.99	157.52	50.30	145.61	59.46
Q318	147.49	55.03	--	--	153.02	52.38	144.68	53.88	147.48	55.49	145.52	54.98	148.18	54.95	161.50	48.25	162.79	47.22	--	--	147.61	55.87	--	--	--	--	--	--	--	--
Q218	147.82	54.70	150.17	53.96	153.02	52.38	144.59	53.97	147.77	55.20	145.46	55.04	148.24	54.89	161.40	48.35	162.72	47.29	135.88	55.63	147.82	55.66	149.96	54.43	149.15	55.69	157.74	50.08	145.90	59.17
Q118	147.66	54.86	--	--	152.98	52.42	144.69	53.87	147.70	55.27	145.60	54.90	148.31	54.82	161.01	48.74	162.37	47.64	--	--	147.81	55.67	--	--	--	--	--	--	--	--

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)
Only 2018 through 2021 data listed for wells E5D, E6D, E7D, E8D, E9D, and E10D due to these wells being explicitly included in the 2018 revised Sampling and Analysis Plan
-- = No meausement available

Table 2A. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E1D		E1S		E2S		E4S		N2S		N3S		NE1S		S10S		S11S	
	Units	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4
Field Measurements																			
Dissolved Oxygen	mg/L	0.62	NS	6.71	6.12	0.6	0.92	2.17	2.15	2.3	2.37	5.67	5.67	5.99	7.03	3.49	2.46	0.38	0.73
ORP	mV	78	NS	125.3	153.3	76.7	169.9	51.1	199.7	189	182.5	192	203.4	77.6	172.3	117	67.2	-89.7	-76.3
pH	SU	7.14	NS	6.99	7	7.13	6.86	7.11	7.14	6.99	6.9	7.23	7.15	7.21	7.25	7.01	6.83	7.73	7.58
Specific Conductivity	µS/cm	1762	NS	1172	1068	1345	1237	1187	1188	1328	1338	1004	980	920	869	1104	1114	937	874
Temperature	deg-C	11	NS	11	11.3	12.4	12.6	10.78	10.8	12.6	12.9	11.98	12.2	12.7	13.3	13.95	14.27	10	10.21
Turbidity	NTU	8.31	NS	3	2.89	4.45	2.69	0.42	16.81	0.49	3.09	0.2	7.48	3.57	2.74	0.72	0.79	3.32	0.24
General Chemistry																			
Alkalinity, Total	mg/L	690	NS	—	—	600	590	580	580	620	670	400	420	300	320	360	370	360	370
Alkalinity, Bicarbonate	mg/L	690	NS	—	—	600	590	580	580	620	670	400	420	300	320	360	370	360	370
Ammonia	mg-N/L	0.25 U	NS	—	—	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	mg/L	170	NS	—	—	160	150	150	150	150	160	120	120	110	110	110	110	75	75
Chemical Oxygen Demand	mg/L	10 U	NS	—	—	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	76	NS	—	—	22	39	30	29	22	22	31	32	22	25	55	57	60	60
Fluoride	mg/L	0.28	NS	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.26	0.1 U
Magnesium	mg/L	120	NS	—	—	65	77	59	57	78	85	43	44	36	38	63	65	50	51
Potassium	mg/L	8.8	NS	—	—	6.9	8.0	6.3	6.6	9.3	10.0	5.6	5.9	5.3	5.7	5.6	6	6.1	6.6
Sodium	mg/L	44	NS	—	—	31	31	30	29	31	33	26	27	18	19	24	25	32	33
Sulfate	mg/L	120	NS	—	—	65	76	43	40	91	56	70	41	93	86	73	73	30	29
Total Dissolved Solids	mg/L	1100	NS	—	—	980	880	1100	740	720	810	540	720	530	570	850	670	890	720
Total Nitrate/Nitrite	mg-N/L	0.2 U	NS	14	14	5.5	11	4.6	3.7	6.5	7.7	7.6	7.2	8.3	7.8	22	22	0.2 U	0.2 U
Total Organic Carbon	mg/L	1.8	NS	—	—	1.2	2.2	0.91	1.2	1.4	1.7	1	1.2	1	1.3	1.7	1.8	2.1	2.5
Metals																			
Antimony	ug/L	0.4 U	NS	—	—	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Arsenic	ug/L	4.6	NS	—	—	1.4	1.7	2.4	2.5	1.2	1.5	2.3	2.5	2.4	2.3	2.0	2.1	5.6	5.7
Barium	ug/L	47	NS	—	—	55	56	50	49	51	51	33	32	34	32	27	28	31	31
Beryllium	ug/L	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
Cadmium	ug/L	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
Chromium	ug/L	0.4 U	NS	—	—	0.4 U	0.4 U	5.3	4.8	6.2	9.0	10.0	9.9	4.5	4.6	10.0	10.0	0.4 U	0.4 U
Cobalt	ug/L	1.0	NS	—	—	1.1	0.95	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Copper	ug/L	1 U	NS	—	—	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.4	1 U	1 U	1 U	1 U	1 U
Iron	ug/L	150 U	NS	—	—	150 U	270	150 U	220	150 U	270	150 U	200	150 U	120	150 U	120	150 U	160
Lead	ug/L	0.79	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
Manganese	ug/L	50	NS	—	—	540	510	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200	190
Nickel	ug/L	6	NS	—	—	5.4	4.9	1 U	1 U	3.8	1 U	3	1 U	4.6	4.2	3.7	3.3	1 U	1 U
Selenium	ug/L	4 U	NS	—	—	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Silver	ug/L	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
Thallium	ug/L	0.5 U	NS	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/L	5.8	NS	—	—	2 U	2 U	6.3	5.9	4.8	4.9	5.4	5.5	5.1	4.9	4.3	4.2	2 U	2 U
Zinc	ug/L	3.5 U	NS	—	—	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter; ug/L = micrograms per liter
mV = milivolts
mg N/L = miligrams of nitrogen per liter
NS = E1D not sampled during Q4 due to pump malfunction
ORP = oxidation reduction potential
SU = Standard units
µS/cm = microSiemens per centimeter
NTU = nepthelometric turbidity units
U = not detected above reporting limit
— = analysis not performed

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E2D				E3D		E4D				E5D				E6D			
	Units	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4
Field Measurements																			
Dissolved Oxygen	mg/L	1.82	1.68	4.31	1.67	8.09	1.73	2.37	1.05	2.5	1.79	3.19	1.53	1.25	1.39	0.77	1.13	1.16	1.36
ORP	mV	95.7	76.6	117.3	181.4	79.3	-19.6	-157.2	-138.6	-89.7	-102.0	-78.7	-104.3	-91.8	-94.4	-158.5	-163.0	-174.6	-175.2
pH	SU	6.86	6.85	6.96	6.80	7.85	7.66	8.03	8.04	8.03	7.89	7.37	7.37	7.32	7.14	7.68	7.7	7.79	7.55
Specific Conductivity	µS/cm	1430	1349	1441	1,349	721	721	524	526	569	526	1226	1191	13.89	1,301	683	699	746	704
Temperature	deg-C	12	12.62	16.3	12.7	11.57	11.2	9.71	10.73	14.1	11.1	10.27	12.01	13.3	12.0	13.49	13.22	17.1	15.0
Turbidity	NTU	3.51	0.15	4.74	5.4	0.17	0.2	7.47	3.08	4.36	1.1	7.37	1.53	4.03	0.6	2.93	0.84	4.57	0.8
General Chemistry																			
Alkalinity, Total	mg/L	NA	600	NA	590	330	330	NA	230	NA	250	630	680	730	710	300	330	330	330
Alkalinity, Bicarbonate	mg/L	NA	600	NA	590	330	330	NA	230	NA	250	630	680	730	710	300	330	330	330
Ammonia	mg-N/L	NA	0.25 U	NA	0.25 U	0.25 U	0.25 U	NA	0.25 U	NA	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.84	0.25 U	0.25 U	0.25 U
Calcium	mg/L	NA	150	NA	150	64	64	NA	45	NA	48	160	160	190	170	63	65	69	65
Chemical Oxygen Demand	mg/L	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	NA	38	NA	39	34	34	NA	31	NA	29	21	23	24	23	18	17	16	16
Fluoride	mg/L	NA	0.1 U	NA	0.1 U	0.1 U	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U	0.2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Magnesium	mg/L	NA	77	NA	77	41	39	NA	31	NA	31	70	74	88	76	32	32	36	33
Potassium	mg/L	NA	7.5	NA	8	5.9	6.4	NA	11	NA	11	7.6	7.7	8.9	8.0	5.8	5.5	6.2	5.9
Sodium	mg/L	NA	31	NA	31	24	24	NA	25	NA	25	33	33	34	32	35	31	31	31
Sulfate	mg/L	NA	82	NA	76	16	15	NA	14	NA	15	28	31	33	32	31	28	28	27
Total Dissolved Solids	mg/L	NA	1000	NA	880	590	410	NA	600	NA	300	680	870	870	790	390	370	450	680
Total Nitrate/Nitrite	mg-N/L	NA	11	NA	11	0.2 U	0.05 U	NA	0.2 U	NA	0.05 U	0.2 U	0.2 U	0.2 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U
Total Organic Carbon	mg/L	NA	2.2	NA	2.2	1.1	1.3	NA	2.3	NA	2.3	2.1	1.4	1.7	1.8	2	1.4	1.3	1.4
Metals																			
Antimony	ug/L	NA	0.4 U	NA	0.4 U	0.4 U	0.4 U	NA	0.4 U	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Arsenic	ug/L	NA	1.5	NA	2	6.1	6.3	NA	15	NA	15	5.8	5.5	6.4	5.9	1.2	1.7	1.8	1.9
Barium	ug/L	NA	35	NA	36	26	27	NA	40	NA	40	77	67	77	75	83	77	76	74
Beryllium	ug/L	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	ug/L	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chromium	ug/L	NA	0.4 U	NA	0.4 U	0.4 U	0.4 U	NA	1.3	NA	1.1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Cobalt	ug/L	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Copper	ug/L	NA	1 U	NA	1 U	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iron	ug/L	NA	150 U	NA	250	150 U	150 U	NS	150 U	NA	490	1700	1800	2400	1800	1200	1600	1800	1800
Lead	ug/L	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	NA	0.42	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Manganese	ug/L	NA	50	NA	56	170	300	NA	92	NA	96	300	340	300	320	550	540	580	580
Nickel	ug/L	NA	7.1	NA	6.9	1 U	1 U	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Selenium	ug/L	NA	4 U	NA	4 U	4 U	4 U	NA	4 U	NA	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Silver	ug/L	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Thallium	ug/L	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/L	NA	5.5	NA	5.8	2 U	2 U	NA	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	ug/L	NA	3.5 U	NA	3.5 U	3.5 U	3.5 U	NA	3.5 U	NA	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter, ug/L = micrograms per liter

mV = milivolts

mg N/L = miligrams of nitrogen per liter

NA = Monitoring Wells E2D and E4D were only sampled for VOCs during 22Q1 and 22Q3 in accordance with the site sampling and analysis plan. See Table 3B for results.

NTU = nepthelometric turbidity units

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

U = not detected above reporting limit

— = analysis not performed

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	E7D				E8D				E9D				E10D			
	Units	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4
Field Measurements																	
Dissolved Oxygen	mg/L	1	1.28	1.08	1.06	0.89	1.01	1.58	1.21	1	1.78	2.18	8.66	0.82	0.92	1.23	2.55
ORP	mV	85.1	113.1	214.5	40.3	-135.7	-133.4	-134.7	-144.0	-129.3	-106.5	-87.5	227.2	-115.3	-107.9	-102.6	-100.8
pH	SU	6.72	6.78	6.73	6.62	7.64	7.78	7.74	7.50	8.22	8.16	8.37	7.52	7.49	7.15	7.47	7.37
Specific Conductivity	µS/cm	1964	1874	1958	1,840	573	580	578	541	547	555	548	514	998	1006	1011	914
Temperature	deg-C	13.6	13.33	15.8	14.9	9.8	10.6	13	10.8	9.6	9.8	12.1	10.6	9.7	9.8	11.1	10.3
Turbidity	NTU	5.09	0.92	3.91	—	3.74	4.02	4.46	0.3	7.77	4.9	6.46	0.4	3.54	3.75	4.42	0.3
General Chemistry																	
Alkalinity, Total	mg/L	680	770	790	750	250	250	250	230	200	200	190	190	410	420	430	410
Alkalinity, Bicarbonate	mg/L	680	770	790	750	250	250	250	230	200	200	190	190	410	420	430	410
Ammonia	mg-N/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	mg/L	250	250	260	250	50	49	51	50	29	30	31	32	110	96	110	98
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	52	50	47	46	13	13	12	12	40	41	40	40	56	55	56	55
Fluoride	mg/L	0.1 U	0.29	0.1 U	0.34	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Magnesium	mg/L	100	100	110	100	26	26	28	26	32	33	35	34	58	53	62	56
Potassium	mg/L	9	8.9	9.5	9.5	5.4	4.7	5.3	5.1	15	14	15	15	7.5	7	7.9	7.6
Sodium	mg/L	36	36	34	36	23	22	21	22	15	14	14	15	31	27	29	29
Sulfate	mg/L	270	280	290	270	24	25	25	41	18	18	19	18	46	46	47	45
Total Dissolved Solids	mg/L	1400	1500	1300	1800	350	540	330	330	220	250	310	300	630	560	620	610
Total Nitrate/Nitrite	mg-N/L	0.94	0.2 U	1.4	1.9	0.2 U	0.2 U	0.2 U	0.05 U	0.2 U	0.2 U	0.2 U	0.05 U	0.2 U	0.2 U	0.2 U	0.05 U
Total Organic Carbon	mg/L	19	19	19	18	0.88	0.76	0.77	1.1	1.4	1.2	1.2	1.2	1.5	1.2	1.3	1.3
Metals																	
Antimony	ug/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Arsenic	ug/L	2.1	2.0	2.1	2.1	4.9	4.8	4.9	4.8	21	22	21	20	6.1	6.7	6.4	6.6
Barium	ug/L	64	67	64	60	67	64	65	62	25	27	25	25	49	48	46	44
Beryllium	ug/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
Cadmium	ug/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
Chromium	ug/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Cobalt	ug/L	2.8	2.9	3.1	2.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Copper	ug/L	4	4.1	4.6	3.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Iron	ug/L	150 U	150 U	150 U	260	1500	1100	1300	1300.0	150 U	150 U	150 U	190	940	1000	910	840
Lead	ug/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
Manganese	ug/L	690	700	720	750	290	300	310	320	32	32	33	35	86	80	92	89
Nickel	ug/L	29	30	29	27	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Selenium	ug/L	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Silver	ug/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
Thallium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/L	9.9	9.3	8.5	7.9	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	ug/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter, ug/L = micrograms per

mV = milivolts

mg N/L = miligrams of nitrogen per liter

NA = Monitoring Wells E2D and E4D were only sar

NTU = nepthelometric turbidity units

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

U = not detected above reporting limit

— = analysis not performed

Table 2B. Field Parameter, General Chemistry, and Inorganic Results - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	Location	N1D		N2D				N3D		N5D		NE1D		S11D	
	Units	22Q2	22Q4	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4
Field Measurements															
Dissolved Oxygen	mg/L	1.57	2.93	2.08	3.42	1.15	0.90	3.38	2.70	1.05	1.38	1.4	7.00	0.98	0.97
ORP	mV	5.0	-0.1	102.8	177.0	170.1	164.4	165.0	160.4	71.2	181.3	30.9	94.2	83.8	-90.5
pH	SU	7.35	7.27	7.05	7.17	6.99	7.01	7.03	7.04	7.27	7.25	7.55	7.61	7.78	7.64
Specific Conductivity	µS/cm	1406	1,369	1155	1160	1221	1,142	638	650	1442	1,332	680	627	946	877
Temperature	deg-C	11.2	12.3	12.43	12.74	13.5	13.1	12.39	12.9	10	10.6	12.7	13.8	10	10.2
Turbidity	NTU	0.28	3.0	3.68	0.31	4.42	2.9	0.5	3.0	3.53	2.6	4.74	3.4	5.64	2.3
General Chemistry															
Alkalinity, Total	mg/L	490	470	410	430	470	430	260	260	550	540	260	250	360	340
Alkalinity, Bicarbonate	mg/L	490	470	410	430	470	430	260	260	550	540	260	250	360	340
Ammonia	mg-N/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	mg/L	120	110	110	100	110	100	68	74	110	120	55	55	69	73
Chemical Oxygen Demand	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	110	110	70	71	72	73	38	38	91	90	35	35	72	71
Fluoride	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2	0.1 U	0.1 U
Magnesium	mg/L	91	89	69	67	72	70	25	28	84	89	32	33	50	52
Potassium	mg/L	9	9	8.1	7.8	8.2	8.3	5.6	6.2	9.3	10	5.5	5.9	6.8	7.5
Sodium	mg/L	44	45	40	38	36	40	19	21	42	46	23	24	33	35
Sulfate	mg/L	140	140	70	82	73	71	27	26	82	77	38	37	32	31
Total Dissolved Solids	mg/L	770	1100	670	640	710	720	370	600	830	590	380	360	710	510
Total Nitrate/Nitrite	mg-N/L	0.2 U	0.05 U	3.6	3.6	3.9	3.4	0.2 U	0.05 U	0.2 U	0.2 U	0.2 U	0.05 U	0.2 U	0.05 U
Total Organic Carbon	mg/L	3.3	3.3	2.2	1.8	2	2.1	0.75	0.98	2.4	2.5	0.81	1.1	2.1	2.4
Metals															
Antimony	ug/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Arsenic	ug/L	5.6	5.0	2.9	2.9	3.0	3.2	8	7.4	3.3	3.2	7.7	7.3	7.5	7.3
Barium	ug/L	110	95	29	29	27	27	31	29	84	80	17	15	41	41
Beryllium	ug/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
Cadmium	ug/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
Chromium	ug/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.96	0.4 U	0.4 U	1.2	1.3	0.4 U	0.4 U
Cobalt	ug/L	0.44	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Copper	ug/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
Iron	ug/L	330	390	150 U	150 U	150 U	180	150 U	190	150 U	120	150 U	150 U	150 U	410
Lead	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.4	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Manganese	ug/L	320	320	10 U	10 U	10 U	10 U	25	10 U	130	150	10 U	10 U	160	160
Nickel	ug/L	8.6	7.2	4.3	4.6	4.7	4.4	1 U	1 U	7.8	7	1 U	1 U	1 U	1 U
Selenium	ug/L	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Silver	ug/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
Thallium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/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
Zinc	ug/L	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U

Notes:

deg-C = degress Celsius

mg/L = miligrams per liter, ug/L = micrograms per

mV = milivolts

mg N/L = miligrams of nitrogen per liter

NA = Monitoring Wells E2D and E4D were only sar

NTU = nepthelometric turbidity units

ORP = oxidation reduction potential

SU = Standard units

µS/cm = microSiemens per centimeter

U = not detected above reporting limit

— = analysis not performed

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

Parameter	Location	DNR				DOT		WR1			
	Units	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q1	22Q2	22Q3	22Q4
Field Measurements											
Dissolved Oxygen	mg/L	2.22	2.03	2.34	3.5	1.3	1.79	3.31	1.86	3.75	4.63
ORP	mV	82.5	109.1	91.7	11.8	-133.1	-161.7	100.9	51.9	124.2	93.1
pH	SU	7.43	7.34	7.42	7.28	8.08	7.78	7.32	7.64	7.33	7.18
Specific Conductivity	µS/cm	887	888	895	841	766	722	896	897	902	847
Temperature	deg-C	9	10.1	13.1	11.49	10.2	12.88	9.1	14.8	11.7	11.07
Turbidity	NTU	1.07	0.79	1.71	0.71	1.85	1.58	0.77	1.92	0.66	0.26
General Chemistry											
Alkalinity, Total	mg/L	280	310	310	300	350	340	310	340	340	330
Alkalinity, Bicarbonate	mg/L	280	310	310	300	350	340	310	340	340	330
Ammonia	mg-N/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	mg/L	81	76	83	82	61	62	79	82	84	80
Chemical Oxygen Deman	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloride	mg/L	64	64	64	63	23	22	54	56	54	53
Fluoride	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Magnesium	mg/L	46	42	48	42	41	46	45	48	49	47
Potassium	mg/L	5.9	5	5.8	6.5	6	5.7	5.6	5.3	5.8	5.5
Sodium	mg/L	30	26	27	24	24	30	32	32	30	32
Sulfate	mg/L	57	58	59	55	23	23	46	47	48	45
Total Dissolved Solids	mg/L	480	450	510	450	630	450	480	610	490	680
Total Nitrate/Nitrite	mg-N/L	0.2 U	0.2 U	0.2 U	0.44	0.2 U	0.2 U	1.7	1.5	1.8	1.7
Total Organic Carbon	mg/L	2.1	1.9	2.1	2.1	1.1	1.2	1.9	1.8	1.8	1.7
Metals											
Antimony	ug/L	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Arsenic	ug/L	3.9	3.9	3.8	4.0	6.2	6.1	3.2	2.2	3.5	3.4
Barium	ug/L	21	21	21	20	26	27	25	20	26	23
Beryllium	ug/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
Cadmium	ug/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
Chromium	ug/L	3.4	3	1.7	2.9	0.4 U	0.4 U	1.9	0.4 U	1.8	1.8
Cobalt	ug/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
Copper	ug/L	5.5	4.7	2.7	4.7	1 U	1 U	42	46	25	21
Iron	ug/L	150 U	150 U	150 U	200	700	830	150 U	150 U	150 U	150 U
Lead	ug/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
Manganese	ug/L	10 U	10 U	10 U	10 U	170	170	10 U	10 U	10 U	10 U
Nickel	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Selenium	ug/L	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Silver	ug/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
Thallium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/L	6.4	6.6	5.9	6.9	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	ug/L	9.5	9.7	3.5 U	8.7	170	200	55	170	12	7.5

Notes:
deg-C = degress Celsius
mg/L = miligrams per liter, ug/L = micrograms 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
— = analysis not performed

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

Parameter	E1D		E2S		E4S		N2S		N3S		NE1S		S10S		S11S	
	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4
1,1 - Dichloroethane	0.3 U	NS	0.3 U	0.3 U	0.3 U	0.3 U	0.34	0.32	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1 - Dichloroethylene	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 - Trichloroethane	0.2 U	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.34	0.32	0.2 U	0.2 U	0.2 U	0.2 U	0.36	0.45	0.2 U	0.2 U
1,1,1,2 - Tetrachloroethane	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	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.34	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
1,1,2,2 - Tetrachloroethane	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	0.2 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 - Dichlorobenzene (ortho)	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
1,2 - Dichloroethane	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2 - Dichloropropane	0.3 U	NS	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
1,2,3 - Trichloropropane	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	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
1,4 - Dichlorobenzene (para)	0.3 U	NS	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
2-Butanone (MEK)	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	3 U	NS	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-Pentanone	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	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	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	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	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	0.3 U	NS	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
Carbon Tetrachloride	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	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	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	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
Chloroform	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	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 - 1,2 - Dichloroethylene	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	0.2 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
Dibromomethane	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	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	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Tetrachloroethylene	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	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
m, p-Xylene	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	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 - 1,2 - Dichloroethylene	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	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	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
Trichloroethylene	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	NS	3.1	3.2	0.5 U	0.5 U	3.7	4.1	1.3	1.3	0.5 U	0.5 U	4.2	5.6	0.5 U	0.5 U
Vinyl acetate	2 U	NS	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U	2 U	3 U	10 U	3 U	2 U	2 U
Vinyl chloride	0.11	NS	0.02 U	0.034	0.02 U	0.021	0.02 U	0.037	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)
* = Data qualified by laboratory
U = not detected above reporting limit

Table 3B. Volatile Organic Compound Results - Aquifer 2
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Parameter	E2D				E3D		E4D				E5D				E6D				E7D				E8D			
	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4
1,1,1,2-Tetrachloroethane	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	3 U	0.3 U	0.3 U	3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1,1-Trichloroethane	0.54	0.4	0.49	0.43	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	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 U	0.48	0.52	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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	0.21	0.2 U	0.21	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	3.1	2.6	2.7	2.8	0.2 U	0.2 U	0.2 U	0.2 U
1,1-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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-Chloropropane	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	20 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane (EDB)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene (ortho)	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	3 U	0.3 U	0.3 U	3 U	0.3 U	0.3 U	0.3 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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene (para)	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	3 U	0.3 U	0.3 U	3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone (MEK)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U
2-Hexanone	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	30 U	3 U	3 U	30 U	3 U	3 U	3 U	3 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U
Acrylonitrile	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	100 U	10 U	10 U	10 U	10 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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	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	0.34	0.3 U	0.3 U	0.3 U	3 U	0.3 U	0.3 U	3 U	0.3	0.3 U	0.3 U	0.3 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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	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	10 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	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 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 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	2 U	0.2 U	0.2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,4-Dichloro-2-Butene	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	20 U	2 U	2 U	20 U	2 U	2 U	2 U	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	2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane	5.1	3.1	3.8	3.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	110	88	120	100	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U	20 U	2 U	10 U	20 U	2 U	2 U	2 U	2 U
Vinyl chloride	17	16	16	16	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	0.035	1.2	1.9	1.5	1.8	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
All concentrations presented in micrograms per liter (µg/L)
U = not detected above reporting

Table 3B. Volatile Organic Compound Results - Aquifer 2
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Parameter	E9D				E10D				N1D		N2D				N3D		N5D		NE1D		S11D	
	22Q1	22Q2	22Q3	22Q4	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4	22Q2	22Q4
1,1,1,2-Tetrachloroethane	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	0.3 U	0.3 U
1,1,1-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
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
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
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
1,1-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
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
1,2-Dibromo-3-Chloropropane	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
1,2-Dibromoethane (EDB)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene (ortho)	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	0.3 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
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
1,4-Dichlorobenzene (para)	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	0.3 U	0.3 U
2-Butanone (MEK)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U
2-Hexanone	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	15 U	3 U	3 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 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
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
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
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	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	0.3 U	0.3 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
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
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
cis-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
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
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
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
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	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
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	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-1,2-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
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
trans-1,4-Dichloro-2-Butene	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
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
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.89	0.5 U	0.85	0.75	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	2 U	2 U	2 U	3 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U
Vinyl chloride	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	0.025	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 micı
U = not detected above reporting

* = 1Q21 detections of Tetrachloroethylene and Trichloroethylene at E9D and E10D reported by laboratory as "high bias" analytical artifacts due to potential VOC carry-over from non-CSWF samples ran in the same testing batch.

Table 3C. Volatile Organic Compound Results - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Parameter	DNR				DOT		WR1			
	22Q1	22Q2	22Q3	22Q4	22Q2	22Q4	22Q1	22Q2	22Q3	22Q4
1,1,1,2-Tetrachloroethane	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
1,1,1-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
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
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
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
1,1-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
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
1,2-Dibromo-3-Chloropropane	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane (EDB)	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene (ortho)	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
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
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
1,4-Dichlorobenzene (para)	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
2-Butanone (MEK)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 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
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
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
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	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
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
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
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
cis-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
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
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
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
m, p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Iodide	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.2 U	0.2 U	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-1,2-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
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
trans-1,4-Dichloro-2-Butene	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	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
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U
Vinyl chloride	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)
U = not detected above reporting limit

Table 4. Volatile Organic Compound Detections
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Coupeville Solid Waste Facility, Island County, Washington

Parameter	Well Name	Aquifer	Date Sampled	Result
1,1,1-Trichloroethane	E2D	2	1/26/2022	0.54
			4/21/2022	0.40
			8/8/2022	0.49
			10/27/2022	0.43
	E7D	2	4/20/2022	0.48
			10/27/2022	0.52
	N2S	1	4/20/2022	0.34
			10/26/2022	0.32
	S10S	1	4/20/2022	0.36
			10/25/2022	0.45
1,1-Dichloroethane	E2D	2	1/26/2022	0.21
			8/8/2022	0.21
	E7D	2	1/26/2022	3.1
			4/20/2022	2.6
			8/8/2022	2.7
			10/27/2022	2.8
	N2S	1	4/20/2022	0.34
			10/26/2022	0.28
Carbon Disulfide	E6D	2	1/26/2022	0.34
	E8D	2	1/26/2022	0.30
Trichlorofluoromethane	E2D	2	1/26/2022	5.1
			4/21/2022	3.1
			8/8/2022	3.8
			10/27/2022	3.6
	E2S	1	4/21/2022	3.1
			10/27/2022	3.2
	E7D	2	1/26/2022	110
			4/20/2022	88
			8/8/2022	120
			10/27/2022	100
	N2D	2	1/26/2022	0.89
			8/8/2022	0.85
			10/26/2022	0.75
	N2S	1	4/20/2022	3.7
			10/26/2022	4.1
	N3S	1	4/20/2022	1.3
			10/26/2022	1.3
	S10S	1	4/21/2022	4.2
			10/25/2022	5.6
Vinyl chloride	E1D	1	4/21/2022	0.11
	E2D	2	1/26/2022	17
			4/21/2022	16
			8/8/2022	16
			10/27/2022	16
	E2S	1	10/27/2022	0.034
	E4S	1	10/25/2022	0.021
	E6D	2	10/27/2022	0.035
	E7D	2	1/26/2022	1.2
			4/20/2022	1.9
			8/8/2022	1.5
			10/27/2022	1.8
	N2D	2	10/26/2022	0.025
	N2S	1	10/26/2022	0.037

Notes:
All units measured in µg/L
WSW = water supply well
** = Data qualified by laboratory

Table 5. WAC 173-200 and Federal MCL Exceedences
2022 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							
Specific Conductivity (µS/cm)	-	-	700[a]	DNR	2	1/26/2022 4/20/2022 8/8/2022	887 888 895
				DOT	2	4/21/2022 1/26/2022	766 998
				E10D	2	4/20/2022 8/8/2022	1006 1011
				E1D	1	4/21/2022	1762
				E1S	1	4/20/2022	1172
				E2D	2	1/26/2022 4/21/2022 8/8/2022	1430 1349 1441
				E2S	1	4/21/2022	1345
				E3D	2	4/21/2022	721
				E4S	1	4/21/2022	1187
				E5D	2	1/26/2022 4/21/2022	1226 1191
				E6D	2	8/8/2022	746
				E7D	2	1/26/2022 4/20/2022 8/8/2022	1964 1874 1958
				N1D	2	4/20/2022	1406
				N2D	2	1/26/2022 4/20/2022 8/8/2022	1155 1160 1221
				N2S	1	4/20/2022	1328
				N3S	1	4/20/2022	1004
				N5D	2	4/20/2022	1442
				NE1S	1	4/20/2022	920
				S10S	1	4/21/2022	1104
				S11D	2	4/21/2022	946
				S11S	1	4/21/2022	946
				WR1	2	1/26/2022 4/21/2022 8/8/2022	896 897 902
General Chemistry							
Sulfate (mg/L)	250	-	250	E7D	2	1/26/2022 1/26/2022 4/20/2022 4/20/2022	270 1400 280 1500
Total Dissolved Solids (mg/L)	500			DNR	2	8/8/2022	510
				DOT	2	4/21/2022	630
				E10D	2	1/26/2022 4/20/2022 8/8/2022 10/25/2022	630 560 620 610
				E1D	1	4/21/2022	1100
				E2D	2	10/27/2022 10/27/2022	11 880

Table 5. WAC 173-200 and Federal MCL Exceedences
2022 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			E2S	1	4/21/2022 10/27/2022	980 1000
				E3D	2	4/21/2022	590
				E4D	2	4/21/2022	600
				E4S	1	4/21/2022 10/25/2022	1100 740
				E5D	2	1/26/2022 4/21/2022 8/8/2022 10/25/2022	680 870 870 790
				E6D	2	10/27/2022	680
				E7D	2	8/8/2022 8/8/2022 10/27/2022 10/27/2022	290 1300 270 1800
				E8D	2	4/21/2022	540
				N1D	2	4/20/2022 10/26/2022	770 1100
				N2D	2	1/26/2022 4/20/2022 8/8/2022 10/26/2022	670 590 710 720
				N2S	1	4/20/2022 10/26/2022	720 810
				N3D	2	10/26/2022 10/26/2022	600 640
				N3S	1	4/20/2022 10/26/2022	540 720
				N5D	2	4/20/2022 10/27/2022	830 590
				NE1S	1	4/20/2022 10/25/2022	530 570
				S10S	1	10/25/2022 10/25/2022	22 670
				S11D	2	4/21/2022 10/26/2022	710 510
				S11S	1	4/21/2022 10/26/2022	890 720
				WR1	2	4/21/2022 10/27/2022	610 680
Total Nitrate/Nitrite (mg/L)	10	10	-	E1S	1	4/20/2022 10/26/2022	14 14
				E2D	2	4/21/2022	11
				S10S	1	4/21/2022	22
Metals							
Arsenic (µg/L)	0.05	10	-	DNR	2	1/26/2022 4/20/2022 8/8/2022 10/27/2022	3.9 3.9 3.8 4.0
				DOT	2	4/21/2022 10/25/2022	6.2 6.1
				E10D	2	1/26/2022 4/20/2022 8/8/2022 10/25/2022	6.1 6.7 6.4 6.6
				E1D	1	4/21/2022	4.6
				E2D	2	4/21/2022 10/27/2022	1.5 2.0

Table 5. WAC 173-200 and Federal MCL Exceedences
2022 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 (µg/L) (cont.)	0.05	10	-	E2S	1	4/21/2022 10/27/2022	1.4 1.7
				E3D	2	4/21/2022 10/25/2022	6.1 6.3
				E4D	2	4/21/2022 10/25/2022	15.0 15.0
				E4S	1	4/21/2022 10/25/2022	2.4 2.5
				E5D	2	1/26/2022 4/21/2022 8/8/2022 10/25/2022	5.8 5.5 6.4 5.9
				E6D	2	1/26/2022 4/20/2022 8/8/2022 10/27/2022	1.2 1.7 1.8 1.9
				E7D	2	1/26/2022 4/20/2022 8/8/2022 10/27/2022	2.1 2.0 2.1 2.1
				E8D	2	1/26/2022 4/21/2022 8/8/2022 10/26/2022	4.9 4.8 4.9 4.8
				E9D	2	1/26/2022 4/20/2022 8/8/2022 10/26/2022	21 22 21 20
				N1D	2	4/20/2022 10/26/2022	5.6 5.0
				N2D	2	1/26/2022 4/20/2022 8/8/2022 10/26/2022	3.0 3.0 3.0 3.2
				N2S	1	4/20/2022 10/26/2022	1.2 1.5
				N3D	2	4/20/2022 4/20/2022 10/26/2022 10/26/2022	7.7 8.0 7.4 8.6
				N3S	1	4/20/2022 10/26/2022	2.3 2.5
				N5D	2	4/20/2022 10/27/2022	3.3 3.2
				NE1D	2	4/20/2022 10/25/2022	7.7 7.3
				NE1S	1	4/20/2022 10/25/2022	2.4 2.3
				S10S	1	4/21/2022 10/25/2022	2.0 2.1
				S11D	2	4/21/2022 10/26/2022	7.5 7.3
				S11S	1	4/21/2022 10/26/2022	5.6 5.7
				WR1	2	1/26/2022 4/21/2022 8/8/2022 10/27/2022	3.2 2.2 3.5 3.4

Table 5. WAC 173-200 and Federal MCL Exceedences
2022 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 (µg/L)	300	-	300	DOT	2	4/21/2022 10/25/2022	700 830
				E10D	2	1/26/2022 4/20/2022 8/8/2022 10/25/2022	940 1,000 910 840
				E4D	2	10/25/2022	490
				E5D	2	1/26/2022 4/21/2022 8/8/2022 10/25/2022	1,700 1,800 2,400 1,800
				E6D	2	1/26/2022 4/20/2022 8/8/2022 10/27/2022	1,200 1,600 1,800 1,800
				E8D	2	1/26/2022 4/21/2022 8/8/2022 10/26/2022	1,500 1,100 1,300 1,300
				N1D	2	4/20/2022 10/26/2022	330 390
				S11D	2	10/26/2022	410
Manganese (µg/L)	50	-	50	DOT	2	4/21/2022	170
				E10D	2	1/26/2022 4/20/2022 8/8/2022	86 80 92
				E2S	1	4/21/2022	540
				E3D	2	4/21/2022	170
				E4D	2	4/21/2022	92
				E5D	2	1/26/2022 4/21/2022 8/8/2022	300 340 300
				E6D	2	1/26/2022 4/20/2022 8/8/2022	550 540 580
				E7D	2	1/26/2022 4/20/2022 8/8/2022	690 700 720
				E8D	2	1/26/2022 4/21/2022 8/8/2022	290 300 310
				N1D	2	4/20/2022	320
				N3D	2	4/20/2022	52
				N5D	2	4/20/2022	130
				S11D	2	4/21/2022	160
				S11S	1	4/21/2022	200

Table 5. WAC 173-200 and Federal MCL Exceedences
2022 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				
Volatile Organic Compounds							
1,1,-Dichloroethane (µg/L)	1.0	-	-	E7D	2	1/26/2022 4/20/2022 8/8/2022 10/27/2022	3.1 2.6 2.7 2.8
Vinyl Chloride (µg/L)	0.02	2	-	E1D	1	4/21/2022	0.11
				E2D	2	1/26/2022 4/21/2022 8/8/2022 10/27/2022	17 16 16 16
				E2S	1	10/27/2022	0.034
				E4S	1	10/25/2022	0.021
				E6D	2	10/27/2022	0.035
				E7D	2	1/26/2022 4/20/2022 8/8/2022 10/27/2022	1.2 1.9 1.5 1.8
				N2D	2	10/26/2022	0.025
				N2S	1	10/26/2022	0.037

Notes:
[a] = WAC 246-290-310 standard
mg/L = miligrams per liter
µg/L = micrograms per liter
MCL = Federal Maximum Contaminant Level
WSW = Water Supply Well

Aquifer 3 = locally perched zone not part of main Aquifers 1 or 2.

Table 6. 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 (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	0	1686	1993	1811.3	2	0.34	36.71	no trend	131	0	163	2490	1317.4	3114	6.194	0	increasing
	1	E1S	5	0	961	1301	1147.4	0	0	50	no trend	132	0	421	2080	1198.7	1096	2.154	1.56	no trend
	1	E2S	5	0	1178	1345	1284.4	4	0.735	23.12	no trend	130	0	420	1630	1119.9	3829	7.704	0	increasing
	1	E4S	5	0	981	1265	1176.8	-2	-0.25	40.33	no trend	47	0	549.7	1265	1087.8	387	3.54	0.02	increasing
	1	N2S	5	0	1092	1328	1243.8	10	2.205	1.37	no trend	61	0	159	1900	1403	-311	-1.929	2.69	no trend
	1	N3S	5	0	1004	1168	1077.8	-4	-0.74	23.12	no trend	130	0	119	1365	847.6	5007	10.08	0	increasing
	1	NE1S	5	0	897	1007	934.6	0	0	50	no trend	69	0	436	1007	817.1	303	1.564	5.89	no trend
	1	S10S	5	0	1093	1202	1142.4	2	0.245	40.33	no trend	71	0	665	2400	1501.2	-1346	-6.676	0	decreasing
	1	S11S	5	0	829	1024	931.4	0	0	50	no trend	66	0	458.7	1033	874.1	523	2.889	0.19	increasing
	2	E2D	11	0	1349	1532	1460.5	-21	-1.56	5.97	no trend	138	0	180	2280	1201.2	3349	5.968	0	increasing
	2	E3D	5	0	713	769	742	-4	-0.74	23.12	no trend	75	0	375.2	846	712	1230	5.512	0	increasing
	2	E4D	11	0	524	702	565.7	0	0	50	no trend	56	0	431	933	577.3	-386	-2.518	0.59	decreasing
	2	E5D	11	0	13.9	1380	1165.1	-5	-0.31	37.78	no trend	20	0	1078	1380	1246.9	97	2.535	0.56	increasing
	2	E6D	11	0	615	746	679	39	2.958	0.15	increasing	20	0	615	696	669.7	63	1.637	5.08	no trend
	2	E7D	11	0	1788	2032	1912.7	21	1.557	5.97	no trend	20	0	1690	2032	1833.7	178	4.676	0	increasing
	2	E8D	11	0	523	594	568.2	27	2.024	2.15	no trend	20	0	523	594	569	30	0.766	22.18	no trend
	2	E9D	11	0	512	568	547.6	27	2.03	2.12	no trend	20	0	511	568	546.3	31	0.793	21.4	no trend
	2	E10D	11	0	928	1030	996.2	30	2.258	1.2	no trend	20	0	917	1030	977.2	132	3.461	0.03	increasing
	2	N1D	5		1397	1638	1468.6	-2	-0.25	40.33	no trend	130	0	152	1850	1231.3	4303	8.559	0	increasing
	2	N2D	11	0	1155	1245	1207.1	-19	-1.4	8.06	no trend	143	0	122	1516	935.6	7276	12.31	0	increasing
	2	N3D	5	0	638	748	679.4	-6	-1.23	11.03	no trend	129	0	371	800	548.3	4958	9.976	0	increasing
	2	N5D	5	0	1361	1465	1430.6	2	0.245	40.33	no trend	69	0	874.2	1630	1358.9	1073	5.435	0	increasing
	2	NE1D	5	0	670	749	693.4	0	0	50	no trend	68	0	335.4	763	637.7	721	3.729	0.01	increasing
	2	S11D	5	0	878	959	926.2	6	1.225	11.03	no trend	67	0	468.1	1065	895.2	358	1.89	2.94	no trend
	WSW	DNR	11	0	823	899	874.8	30	2.265	1.18	no trend	82	0	601	969	813.4	1692	6.418	0	increasing
	WSW	DOT	5	0	676	780	743.6	8	1.715	4.32	no trend	114	0	388.4	780	587.3	3833	9.263	0	increasing
	WSW	WR1	11	0	876	911	898.8	6	0.389	34.86	no trend	81	0	479	911	801.5	2185	8.437	0	increasing

Table 6. 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 (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	3	<0.2	1.3	0.4	-3	-0.72	23.51	no trend	131	50	<0.000030	3.19	0.68	-2857	-5.683	0	decreasing
	1	E1S	6	0	12	14	13.5	9	1.559	5.95	no trend	133	13	<0.000030	14	4.68	3781	7.353	0	increasing
	1	E2S	6	0	5.5	8.6	7.35	-10	-1.72	4.26	no trend	130	45	<0.000030	8.7	1.89	-1062	-2.135	1.64	no trend
	1	E4S	6	0	3.6	5.9	4.52	1	0	50	no trend	48	0	0.11	5.9	1.164	803	7.129	0	increasing
	1	N2S	6	0	6.5	8.1	7.2	-5	-0.75	22.62	no trend	63	17	<0.000030	9.2	2.555	186	1.097	13.62	no trend
	1	N3S	6	0	6.8	7.6	7.23	3	0.376	35.36	no trend	131	5	<0.2	7.6	2.76	6510	12.95	0	increasing
	1	NE1S	6	0	6.8	8.3	7.68	8	1.315	9.43	no trend	70	0	0.03	8.39	5.38	1341	6.793	0	increasing
	1	S10S	6	0	21	26	23.33	-4	-0.57	28.31	no trend	72	0	0.02	86	34.06	2	0.005	49.81	no trend
	1	S11S	6	6	<0.050	<0.2	0.0875	N/A	N/A	N/A	N/A	67	65	<0.00070	0.19	0.02526	-677	-3.66	0.01	decreasing
	2	E2D	6	0	6.9	11	9.22	12	2.104	1.77	no trend	128	14	<0.00070	11	1.35	1478	3.042	0.12	increasing
	2	E3D	6	5	<0.050	0.55	0.1625	N/A	N/A	N/A	N/A	77	72	<0.000030	0.55	0.0306	-1217	-5.35	0	decreasing
	2	E4D	6	6	<0.050	<0.2	0.0875	N/A	N/A	N/A	N/A	48	47	<0.0028	0.16	0.0304	N/A	N/A	N/A	N/A
	2	E5D	12	10	<0.050	0.89	0.2213	N/A	N/A	N/A	N/A	20	18	<0.050	0.89	0.157	N/A	N/A	N/A	N/A
	2	E6D	12	10	<0.10	2.9	0.367	N/A	N/A	N/A	N/A	20	18	<0.0750	2.9	0.2444	N/A	N/A	N/A	N/A
	2	E7D	12	6	<0.10	1.9	0.588	32	2.136	1.63	no trend	20	13	<0.0750	1.9	0.439	63	2.016	2.19	no trend
	2	E8D	12	11	<0.050	0.47	0.1204	N/A	N/A	N/A	N/A	20	19	<0.050	0.47	0.0998	N/A	N/A	N/A	N/A
	2	E9D	12	11	<0.050	0.47	0.1152	N/A	N/A	N/A	N/A	20	19	<0.050	0.47	0.0998	N/A	N/A	N/A	N/A
	2	E10D	12	10	<0.050	0.6	0.1602	N/A	N/A	N/A	N/A	20	18	<0.050	0.6	0.1268	N/A	N/A	N/A	N/A
	2	N1D	6	5	<0.050	0.77	0.199	N/A	N/A	N/A	N/A	133	90	<0.000030	0.77	0.1048	-4535	-8.82	0	decreasing
	2	N2D	12	1	<0.2	4.5	3.475	-9	-0.55	29.12	no trend	148	35	<0.000030	4.5	1.026	446	0.738	23.03	no trend
	2	N3D	6	6	<0.050	<0.2	0.0875	N/A	N/A	N/A	N/A	130	108	<0.000030	0.7	0.072	-3558	-7.159	0	decreasing
	2	N5D	6	5	<0.0750	0.91	0.2246	N/A	N/A	N/A	N/A	71	66	<0.00070	0.91	0.03464	-530	-2.627	0.43	decreasing
	2	NE1D	6	6	<0.050	<0.2	0.0875	N/A	N/A	N/A	N/A	70	39	<0.00250	3.86	0.088	862	4.366	0	increasing
	2	S11D	6	6	<0.050	<0.2	0.0875	N/A	N/A	N/A	N/A	68	65	<0.00070	0.16	0.02473	-636	-3.363	0.04	decreasing
	WSW	DNR	12	6	<0.2	0.54	0.2733	12	0.758	22.43	no trend	86	43	<0.000030	0.56	0.0966	-1414	-5.271	0	decreasing
	WSW	DOT	6	6	<0.050	<0.2	0.0771	N/A	N/A	N/A	N/A	117	113	<0.000030	0.3	0.053	-2333	-5.494	0	decreasing
	WSW	WR1	12	1	<0.2	2.1	1.592	8	0.482	31.48	no trend	85	6	<0.012	2.1	1.047	1916	7.269	0	increasing

Table 6. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	0	110	140	120	3	0.722	23.51	no trend	131	0	22	140	60.3	3056	6.078	0	increasing
	1	E2S	6	0	54	75	68.3	-13	-2.25	1.21	no trend	130	0	8	76	33	3985	8.018	0	increasing
	1	E4S	6	0	38	43	40	4	0.564	28.65	no trend	48	0	24	63	37.05	716	6.356	0	increasing
	1	N2S	6	0	49	91	59.3	9	1.503	6.64	no trend	63	0	3	130	60	992	5.878	0	increasing
	1	N3S	6	0	41	70	49.2	3	0.376	35.36	no trend	131	0	15	70	41.7	2243	4.461	0	increasing
	1	NE1S	6	1	<0.6	110	80.1	-3	-0.38	35.36	no trend	70	1	<0.6	110	70.5	100	0.502	30.79	no trend
	1	S10S	6	0	73	80	75.2	-6	-0.96	16.95	no trend	72	0	33	131	95.3	-730	-3.544	0.02	decreasing
	1	S11S	6	0	29	32	30.17	-5	-0.77	22.21	no trend	67	0	25	32	28.5	1187	6.419	0	increasing
	2	E2D	6	0	76	82	79.5	0	0	50	no trend	128	0	0.8	82	31.76	2739	5.64	0	increasing
	2	E3D	6	0	15	16	15.5	-3	-0.38	35.36	no trend	77	0	13	28	15.56	856	3.761	0.01	increasing
	2	E4D	6	0	13	16	14.17	7	1.169	12.12	no trend	48	0	10	161	21	-450	-3.992	0	decreasing
	2	E5D	12	0	25	33	29.1	45	3.024	0.12	increasing	20	0	21	33	26.45	163	5.264	0	increasing
	2	E6D	12	0	21	32	29	-26	-1.72	4.25	no trend	20	0	21	38	31.3	-142	-4.582	0	decreasing
	2	E7D	12	0	210	340	273.3	25	1.65	4.95	no trend	20	0	130	340	228.5	143	4.614	0	increasing
	2	E8D	12	0	24	41	26.9	-9	-0.55	29.03	no trend	20	0	24	41	26.6	-34	-1.075	14.13	no trend
	2	E9D	12	0	18	22	18.9	-6	-0.34	36.53	no trend	20	0	18	22	19.3	-72	-2.308	1.05	no trend
	2	E10D	12	0	42	48	45.9	2	0.069	47.26	no trend	20	0	42	48	45.35	77	2.468	0.68	increasing
	2	N1D	6	0	140	160	145	-5	-0.77	22.21	no trend	133	1	<0.04	190	86.3	7431	14.45	0	increasing
	2	N2D	12	0	26	82	67.3	23	1.509	6.57	no trend	148	0	2	82	39	8157	13.52	0	increasing
	2	N3D	6	0	24	28	26	2	0.188	42.55	no trend	130	0	0.6	51	19.85	5376	10.82	0	increasing
	2	N5D	6	0	75	82	78.5	5	0.765	22.21	no trend	71	0	30	82	48.1	2263	11.23	0	increasing
	2	NE1D	6	0	37	38	37.8	-5	-0.78	21.79	no trend	70	0	29	81	36.6	1234	6.252	0	increasing
	2	S11D	6	0	31	33	31.83	-3	-0.38	35.1	no trend	68	0	27	33	30.4	546	2.885	0.2	increasing
	WSW	DNR	12	0	55	71	58.3	19	1.234	10.86	no trend	86	0	16	71	40	3091	11.53	0	increasing
	WSW	DOT	6	0	23	27	24	-3	-0.38	35.1	no trend	117	0	10.1	32	17.38	4142	9.755	0	increasing
	WSW	WR1	12	0	45	53	46.8	12	0.756	22.48	no trend	85	0	36	53.4	44.16	-59	-0.22	41.29	no trend

Table 6. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	0	770	1100	952.5	4	1.019	15.41	no trend	69	0	770	1600	1126.4	-1750	-9.059	0	**decreasing**
	1	E2S	6	0	630	1000	813.3	13	2.254	1.21	no trend	71	0	551	1000	796.9	355	1.757	3.94	no trend
	1	E4S	6	0	510	1100	695	11	1.879	3.01	no trend	48	0	510	1100	658.5	297	2.631	0.43	**increasing**
	1	N2S	6	0	610	810	685	13	2.254	1.21	no trend	41	0	610	1136	943.6	-639	-7.167	0	**decreasing**
	1	N3S	6	0	500	720	591.7	11	1.879	3.01	no trend	69	0	500	724	654.9	-121	-0.622	26.71	no trend
	1	NE1S	6	0	460	680	551.7	4	0.564	28.65	no trend	70	0	380	680	521.8	9	0.041	48.38	no trend
	1	S10S	6	0	620	850	690	3	0.376	35.36	no trend	72	0	620	1410	961.9	-1838	-8.93	0	**decreasing**
	1	S11S	6	0	440	890	578.3	13	2.254	1.21	no trend	67	0	440	890	522.2	-255	-1.375	8.47	no trend
	2	E2D	6	0	750	1000	845	11	1.879	3.01	no trend	71	0	452	1277	1080.3	-862	-4.274	0	**decreasing**
	2	E3D	6	0	320	590	406.7	9	1.503	6.64	no trend	71	0	320	590	415.7	527	2.611	0.45	**increasing**
	2	E4D	6	0	260	600	368.3	1	0	50	no trend	48	0	260	600	351.2	-653	-5.795	0	**decreasing**
	2	E5D	12	0	520	870	715.8	34	2.268	1.17	no trend	20	0	520	870	690	88	2.824	0.24	**increasing**
	2	E6D	12	0	290	680	382.5	41	2.743	0.3	**increasing**	20	0	290	680	367.5	55	1.753	3.98	no trend
	2	E7D	12	0	1100	1800	1333.3	46	3.1	0.1	**increasing**	20	0	910	1800	1232	139	4.487	0	**increasing**
	2	E8D	12	0	140	540	285	35	2.343	0.96	**increasing**	20	0	140	540	284	25	0.779	21.79	no trend
	2	E9D	12	0	120	310	233.3	13	0.823	20.53	no trend	20	0	120	310	244.5	-7	-0.195	42.28	no trend
	2	E10D	12	0	310	630	521.7	26	1.714	4.32	no trend	20	0	310	630	524.5	35	1.104	13.48	no trend
	2	N1D	6	0	740	1100	838.3	7	1.127	12.98	no trend	70	0	740	1100	926.8	-694	-3.513	0.02	**decreasing**
	2	N2D	12	0	560	720	641.7	29	1.92	2.74	no trend	81	0	403	767	676.4	158	0.64	26.1	no trend
	2	N3D	6	0	320	600	388.3	9	1.53	6.3	no trend	70	0	298	600	364.9	784	3.97	0	**increasing**
	2	N5D	6	0	310	830	635	0	0	50	no trend	71	0	310	891	789.7	665	3.296	0.05	**increasing**
	2	NE1D	6	0	250	410	348.3	5	0.751	22.62	no trend	70	0	250	549	376.9	433	2.19	1.43	no trend
	2	S11D	6	0	440	710	536.7	9	1.503	6.64	no trend	68	0	440	710	531.2	-382	-2.017	2.19	no trend
	WSW	DNR	12	0	310	510	442.5	12	0.756	22.48	no trend	79	0	310	526	474.1	122	0.512	30.43	no trend
	WSW	DOT	6	0	190	630	403.3	11	1.879	3.01	no trend	71	0	190	630	375.1	1011	5.014	0	**increasing**
	WSW	WR1	12	0	360	680	478.3	35	2.331	0.99	**increasing**	70	0	360	680	477.2	140	0.705	24.05	no trend

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Parameter	Aquifer	Station	Short Term Statistics (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	0	0.0046	4.6	3.176	-6	-1.7	4.47	no trend	116	33	0.0046	<200	9.64	-2483	-5.923	0	**decreasing**
	1	E2S	6	0	0.0014	1.4	0.867	-4	-0.56	28.65	no trend	119	37	0.0014	<200	10.26	-4604	-10.57	0	**decreasing**
	1	E4S	6	0	0.0024	2.6	1.717	-6	-0.96	16.95	no trend	48	1	0.0024	4	2.48	-61	-0.534	29.69	no trend
	1	N2S	6	0	0.0012	1.1	0.717	-10	-1.72	4.26	no trend	56	27	0.0012	<20	1.112	252	1.775	3.8	no trend
	1	N3S	6	0	0.0023	2.5	1.584	-10	-1.72	4.26	no trend	116	43	0.0023	<200	8.63	-2512	-5.992	0	**decreasing**
	1	NE1S	6	0	0.0023	2.5	1.5	-12	-2.07	1.94	no trend	70	0	0.0023	6	2.787	-718	-3.636	0.01	**decreasing**
	1	S10S	6	0	0.002	2.2	1.384	-8	-1.32	9.43	no trend	72	5	0.002	3.6	1.9	471	2.285	1.11	no trend
	1	S11S	6	0	0.0056	6.2	3.835	-9	-1.5	6.64	no trend	67	0	0.0056	7	5.63	-546	-2.95	0.16	**decreasing**
	2	E2D	6	0	0.0015	2	1.167	-6	-0.94	17.38	no trend	118	44	0.0015	<200	7.38	-2619	-6.09	0	**decreasing**
	2	E3D	6	0	0.0061	6.5	4.135	-11	-1.88	3.01	no trend	77	0	0.0061	10	6.43	-893	-3.924	0	**decreasing**
	2	E4D	6	0	0.015	17	11	-10	-1.72	4.26	no trend	48	0	0.015	26	16.44	-455	-4.037	0	**decreasing**
	2	E5D	12	1	0.0055	6.5	3.49	-22	-1.44	7.45	no trend	20	1	0.0055	7.4	4.62	-73	-2.337	0.97	**decreasing**
	2	E6D	12	0	0.0012	1.6	0.95	-15	-0.97	16.74	no trend	20	0	0.0012	1.6	1.095	-16	-0.488	31.29	no trend
	2	E7D	12	0	0.002	2.3	1.317	-34	-2.27	1.17	no trend	20	0	0.002	3.7	1.69	-86	-2.759	0.29	**decreasing**
	2	E8D	12	0	0.0048	5.4	3.185	-21	-1.37	8.51	no trend	20	0	0.0048	5.5	3.436	1	0	50	no trend
	2	E9D	12	0	0.02	22	13.92	-28	-1.86	3.14	no trend	20	0	0.02	22	16.35	-20	-0.617	26.85	no trend
	2	E10D	12	0	0.0061	13	4.62	-28	-1.85	3.21	no trend	20	0	0.0061	13	5.05	-8	-0.227	41.01	no trend
	2	N1D	6	0	0.005	5.7	3.45	-11	-1.88	3.01	no trend	118	34	0.005	<200	9.54	-3362	-7.818	0	**decreasing**
	2	N2D	12	0	0.0029	3.4	2.043	-30	-1.99	2.31	no trend	128	44	0.0029	<200	7.43	-2808	-5.782	0	**decreasing**
	2	N3D	6	0	0.0074	8.8	5.45	-13	-2.25	1.21	no trend	115	29	0.0074	<200	12.2	-1807	-4.366	0	**decreasing**
	2	N5D	6	0	0.0032	3.5	2.184	-11	-1.88	3.01	no trend	71	0	0.0032	9	4.01	-1141	-5.66	0	**decreasing**
	2	NE1D	6	0	0.0073	7.8	4.97	-11	-1.88	3.01	no trend	70	1	0.0073	9	6.65	528	2.672	0.38	**increasing**
	2	S11D	6	0	0.0073	8.1	5.14	-11	-1.88	3.01	no trend	68	0	0.0073	9.6	7.6	-398	-2.102	1.78	no trend
	WSW	DNR	12	0	0.0038	4	2.52	-45	-3.02	0.12	**decreasing**	86	0	0.0038	12	5.26	-1815	-6.767	0	**decreasing**
	WSW	DOT	6	0	0.0061	6.8	4.3	-13	-2.25	1.21	no trend	117	32	0.0061	<200	10.58	-2591	-6.102	0	**decreasing**
	WSW	WR1	12	0	0.0022	3.7	2.234	-42	-2.81	0.25	**decreasing**	85	16	0.0022	5	2.507	272	1.029	15.18	no trend

Table 6. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	4	<0.150	<0.150	<0.150	N/A	N/A	N/A	N/A	113	79	<0.0010	3.89	0.0924	-2983	-7.4	0	**decreasing**
	1	E2S	6	5	<0.150	0.27	0.1075	N/A	N/A	N/A	N/A	116	21	<0.00130	23	2.63	-3980	-9.494	0	**decreasing**
	1	E4S	6	5	<0.150	0.22	0.0992	N/A	N/A	N/A	N/A	47	41	<0.0010	0.22	0.04156	-534	-4.891	0	**decreasing**
	1	N2S	6	5	<0.150	0.27	0.1075	N/A	N/A	N/A	N/A	54	48	<0.002	3.6	0.1085	N/A	N/A	N/A	N/A
	1	N3S	6	5	<0.150	0.2	0.0958	N/A	N/A	N/A	N/A	113	54	<0.0010	16	1.137	-3225	-8	0	**decreasing**
	1	NE1S	6	5	<0.150	0.12	0.0825	N/A	N/A	N/A	N/A	70	53	<0.0010	0.22	0.0443	-1029	-5.213	0	**decreasing**
	1	S10S	6	5	<0.150	0.12	0.0825	N/A	N/A	N/A	N/A	72	48	<0.0010	2.05	0.1354	-1409	-6.846	0	**decreasing**
	1	S11S	6	5	<0.150	0.16	0.0892	N/A	N/A	N/A	N/A	67	18	<0.002	0.25	0.114	853	4.611	0	**increasing**
	2	E2D	6	5	<0.150	0.25	0.1042	N/A	N/A	N/A	N/A	112	74	<0.0010	23	0.302	-3338	-8.392	0	**decreasing**
	2	E3D	6	6	<0.050	<0.150	0.0667	N/A	N/A	N/A	N/A	76	51	<0.0010	0.3	0.0472	-1597	-7.159	0	**decreasing**
	2	E4D	6	5	<0.150	0.49	0.1442	N/A	N/A	N/A	N/A	48	17	<0.150	3.41	0.668	-570	-5.059	0	**decreasing**
	2	E5D	12	0	1.7	2.4	1.9	-4	-0.21	41.83	no trend	20	0	1.4	2.4	1.815	82	2.631	0.43	**increasing**
	2	E6D	12	0	1.2	1.8	1.508	35	2.343	0.96	**increasing**	20	0	0.32	1.8	1.22	147	4.742	0	**increasing**
	2	E7D	12	11	<0.150	0.26	0.0904	N/A	N/A	N/A	N/A	20	17	<0.150	0.3	0.1068	N/A	N/A	N/A	N/A
	2	E8D	12	0	1	1.5	1.283	-6	-0.34	36.53	no trend	20	0	1	1.6	1.32	-42	-1.333	9.13	no trend
	2	E9D	12	11	<0.150	0.19	0.0846	N/A	N/A	N/A	N/A	20	19	<0.150	0.19	0.0808	N/A	N/A	N/A	N/A
	2	E10D	12	0	0.84	1.1	0.944	-31	-2.06	1.96	no trend	20	1	<0.150	1.5	1.015	-109	-3.506	0.02	**decreasing**
	2	N1D	6	3	<0.150	0.39	0.214	4	0.574	28.31	no trend	115	6	<0.0012	2.77	0.469	-969	-2.34	0.96	**decreasing**
	2	N2D	12	11	<0.150	0.18	0.0838	N/A	N/A	N/A	N/A	124	85	<0.0012	1.85	0.0745	-3700	-7.99	0	**decreasing**
	2	N3D	6	5	<0.150	0.19	0.0942	N/A	N/A	N/A	N/A	112	18	<0.0012	2.04	0.3296	-2751	-6.915	0	**decreasing**
	2	N5D	6	5	<0.150	0.12	0.0825	N/A	N/A	N/A	N/A	71	61	<0.0010	0.12	0.02846	-927	-4.598	0	**decreasing**
	2	NE1D	6	6	<0.050	<0.150	0.0667	N/A	N/A	N/A	N/A	70	33	<0.0010	3.92	0.169	-1271	-6.44	0	**decreasing**
	2	S11D	6	5	<0.150	0.41	0.1308	N/A	N/A	N/A	N/A	68	16	<0.150	2.27	0.403	-735	-3.886	0.01	**decreasing**
	WSW	DNR	12	11	<0.150	0.2	0.0854	N/A	N/A	N/A	N/A	86	19	<0.150	15.1	0.482	-934	-3.48	0.03	**decreasing**
	WSW	DOT	6	1	<0.150	0.83	0.558	7	1.127	12.98	no trend	114	8	<0.010	0.854	0.2713	858	2.099	1.79	no trend
	WSW	WR1	12	12	<0.050	<0.150	0.0708	N/A	N/A	N/A	N/A	85	50	<0.0012	2.13	0.1122	-1639	-6.218	0	**decreasing**

Table 6. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	0	0.044	0.052	0.0495	-1	0	50	no trend	113	3	<0.0010	0.394	0.0466	1603	3.975	0	increasing
	1	E2S	5	0	0.42	0.54	0.486	8	1.715	4.32	no trend	115	1	<0.0000282	2.8	0.942	-1280	-3.092	0.1	decreasing
	1	E4S	5	5	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	47	21	<0	0.484	0.02224	-694	-6.359	0	decreasing
	1	N2S	5	5	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	53	13	<0.00170	0.283	0.0554	-284	-2.171	1.5	no trend
	1	N3S	5	5	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	112	31	<0.0000282	0.34	0.02457	-3018	-7.587	0	decreasing
	1	NE1S	5	5	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	69	34	<0	0.329	0.01218	-1331	-6.89	0	decreasing
	1	S10S	5	5	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	71	9	<0.010	0.365	0.1066	-2136	-10.6	0	decreasing
	1	S11S	5	0	0.19	0.22	0.2	2	0.245	40.33	no trend	66	0	0.01	0.271	0.187	835	4.616	0	increasing
	2	E2D	5	0	0.05	0.064	0.0566	-3	-0.49	31.21	no trend	112	27	<0.000090	2	0.055	2830	7.114	0	increasing
	2	E3D	5	0	0.17	0.3	0.26	-5	-0.98	16.36	no trend	75	0	0.07	0.344	0.241	854	3.902	0	increasing
	2	E4D	5	0	0.067	0.092	0.0786	6	1.225	11.03	no trend	47	0	0.002	0.393	0.1	-564	-5.163	0	decreasing
	2	E5D	11	0	0.22	0.34	0.27	24	1.791	3.67	no trend	19	0	0.21	0.34	0.254	96	3.326	0.04	increasing
	2	E6D	11	0	0.51	0.6	0.559	-17	-1.25	10.51	no trend	19	0	0.51	0.73	0.612	-116	-4.028	0	decreasing
	2	E7D	11	0	0.69	0.79	0.73	-2	-0.08	46.9	no trend	19	0	0.58	0.79	0.706	68	2.344	0.95	increasing
	2	E8D	11	0	0.28	0.31	0.2955	18	1.323	9.29	no trend	19	0	0.28	0.35	0.3095	-57	-1.962	2.49	no trend
	2	E9D	11	0	0.032	0.05	0.0393	-34	-2.58	0.5	decreasing	19	0	0.032	0.059	0.0446	-109	-3.781	0.01	decreasing
	2	E10D	11	0	0.073	0.092	0.0822	7	0.469	31.97	no trend	19	0	0.073	0.095	0.0847	-55	-1.89	2.94	no trend
	2	N1D	5	0	0.31	0.32	0.318	0	0	50	no trend	114	0	0.002	0.96	0.1946	3924	9.607	0	increasing
	2	N2D	11	10	<0.010	0.026	0.00691	N/A	N/A	N/A	N/A	123	63	<0.000030	0.041	0.00748	433	0.944	17.25	no trend
	2	N3D	5	0	0.025	0.032	0.0274	-5	-1.01	15.61	no trend	111	0	0.009	0.25	0.0509	-1404	-3.575	0.02	decreasing
	2	N5D	5	0	0.13	0.16	0.15	-6	-1.23	11.03	no trend	70	1	<0.0000282	0.265	0.1804	983	4.979	0	increasing
	2	NE1D	5	5	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	69	16	<0.00170	0.378	0.03065	-1529	-7.915	0	decreasing
	2	S11D	5	0	0.14	0.17	0.154	1	0	50	no trend	67	0	0.078	0.22	0.1633	-250	-1.348	8.89	no trend
	WSW	DNR	11	11	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	85	18	<0.010	0.147	0.0759	-863	-3.272	0.05	decreasing
	WSW	DOT	5	0	0.14	0.17	0.156	7	1.516	6.48	no trend	113	0	0.062	0.17	0.1318	1389	3.444	0.03	increasing
	WSW	WR1	11	11	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	84	52	<0	0.09	0.00489	-1544	-5.962	0	decreasing

Table 6. Short and Long Term Statisitics for Select Parameters
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Parameter	Aquifer	Station	Short Term Statistics (2021-2022)									Long Term Statistics (1985-2022)								
			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	E1D	4	0	0.035	0.23	0.1488	2	0.34	36.71	no trend	80	17	<0.010	<3.0	0.378	-105	-0.432	33.29	no trend
	1	E2S	6	4	<0.010	0.034	0.01417	5	0.779	21.79	no trend	94	9	<0.010	2.98	0.924	-2939	-9.597	0	**decreasing**
	1	E4S	6	1	<0.010	0.52	0.1695	-13	-2.25	1.21	no trend	48	30	<0.00590	0.52	0.0572	336	2.979	0.14	**increasing**
	1	N2S	6	3	<0.010	0.1	0.0392	2	0.188	42.55	no trend	54	6	<0.010	7.9	2.418	-877	-6.535	0	**decreasing**
	1	N3S	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	87	80	<0.00590	<3.0	0.0976	N/A	N/A	N/A	N/A
	1	NE1S	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	70	66	<0.00590	0.26	0.0245	N/A	N/A	N/A	N/A
	1	S10S	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	72	18	<0.010	7.71	1.585	-2227	-10.82	0	**decreasing**
	1	S11S	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	67	63	<0.00590	0.26	0.02086	N/A	N/A	N/A	N/A
	2	E2D	12	0	16	30	21.33	-31	-2.07	1.94	no trend	97	9	<0.010	53.6	17.25	1809	5.635	0	**increasing**
	2	E3D	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	77	70	<0.00590	0.26	0.0396	N/A	N/A	N/A	N/A
	2	E4D	12	11	<0.010	0.02	0.00625	N/A	N/A	N/A	N/A	62	30	<0.010	0.26	0.0359	-1046	-6.349	0	**decreasing**
	2	E5D	12	12	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	37	31	<0.00590	0.4	0.04	N/A	N/A	N/A	N/A
	2	E6D	12	9	<0.010	0.037	0.01158	-2	-0.07	47.24	no trend	37	15	<0.010	0.4	0.0547	-353	-4.607	0	**decreasing**
	2	E7D	12	1	<0.010	3.6	2.184	-23	-1.51	6.53	no trend	38	1	<0.010	18.1	5.38	-542	-6.802	0	**decreasing**
	2	E8D	12	12	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	37	29	<0.00590	0.4	0.037	-241	-3.143	0.08	**decreasing**
	2	E9D	12	12	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	25	25	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A
	2	E10D	12	12	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	25	25	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A
	2	N1D	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	83	79	<0.00590	<3.0	0.1014	N/A	N/A	N/A	N/A
	2	N2D	12	8	<0.010	0.045	0.01342	-8	-0.49	31.4	no trend	100	30	<0.010	<3.0	0.1004	-960	-2.856	0.21	**decreasing**
	2	N3D	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	81	77	<0.00590	<3.0	0.083	N/A	N/A	N/A	N/A
	2	N5D	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	71	20	<0.010	0.26	0.0318	-288	-1.425	7.71	no trend
	2	NE1D	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	70	66	<0.00590	0.26	0.0245	N/A	N/A	N/A	N/A
	2	S11D	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	69	65	<0.00590	0.26	0.0248	N/A	N/A	N/A	N/A
	WSW	DNR	12	12	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	86	82	<0.00590	0.26	0.038	N/A	N/A	N/A	N/A
	WSW	DOT	6	6	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	79	75	<0.00590	<3.0	0.0757	N/A	N/A	N/A	N/A
	WSW	WR1	12	12	<0.010	<0.010	<0.010	N/A	N/A	N/A	N/A	85	81	<0.00590	0.26	0.0621	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 (insuffcient sample size available, or calculation not applicable due to percent of non-detects)
With the exception of the 2 year event in 2020, E1S has only been sampled for field parameters and Nitrate beginning in 2018 in accordance with the site sampling and analysis plan.
therefore it is not listed in Table 6 for parameters that were not analyzed.
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 7. 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)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	Init Diff Press	Init Flow (scfm)	Adj Flow (SCFM)	System Pressure
IC-BL-LG	1/18/2022 11:20	50.3	17.6	0.8	31.3	48	4.293	96.6	96.1	>>>>	-22.53	48.1
IC-BL-LG	3/2/2022 12:33	48	16.5	0.4	35.1	57.1	4.088	93.3	93	>>>>	-21.99	56.8
IC-BL-LG	4/19/2022 11:41	46.6	16.7	0.3	36.4	48	4.565	99.1	99.1	>>>>	-22.15	48
IC-BL-LG	6/1/2022 11:36	46.3	15.3	0.5	37.9	65.8	-0.002	<<>>	<<>>	>>>>	-20.55	65.8
IC-BL-LG	7/7/2022 12:04	36.1	18.1	0.5	45.3	81.3	4.278	90.4	90.4	>>>>	-20.47	81.6
IC-BL-LG	10/17/2022 12:25	44.9	19.9	0	35.2	66.1	4.321	93.5	93.2	>>>>	-21.05	65.7
IC-BL-LG	12/8/2022 12:19	41.7	20	0.6	37.7	47.6	4.204	93	93.2	>>>>	-22.04	47.2
IC-BL-SV	1/18/2022 11:18	6.1	15.8	1.2	76.9	47.2	3.552	78.7	78.6	>>>>	-36.31	46.9
IC-BL-SV	3/2/2022 12:30	4.5	15.5	1.7	78.3	55.3	3.47	77	76.9	90	-36.28	55.4
IC-BL-SV	4/19/2022 11:35	4.3	15.2	1	79.5	49.4	3.425	77.1	77	86	-35.37	49.2
IC-BL-SV	6/1/2022 11:34	0.6	1.9	8	89.5	69	-0.002	<<>>	<<>>	12	-23.12	69.1
IC-BL-SV	7/7/2022 12:02	4.4	13.8	1.8	80	80.1	2.67	67.3	67.3	88	-24.08	80.2
IC-BL-SV	10/17/2022 12:24	3.4	14.7	0.7	81.2	67	2.755	68.8	69	68	-24.39	66.9
IC-BL-SV	12/8/2022 12:16	2.8	15.1	2	80.1	47.7	2.745	68.9	69.8	56	-25.73	47.7
IC-FL-IN	1/18/2022 11:31	50	17.4	0.8	31.8	51.9	0.326	100.1	103.1	>>>>	1.94	52
IC-FL-IN	3/2/2022 12:39	48.4	16.4	0.4	34.8	59	0.313	99.3	99.6	>>>>	1.94	58.9
IC-FL-IN	4/19/2022 11:52	46	16.5	0.5	37	54.9	0.336	102.8	102.6	>>>>	1.97	55.3
IC-FL-IN	6/1/2022 11:43	44.8	17.6	0.4	37.2	67.4	-0.002	<<>>	<<>>	>>>>	1.93	67.5
IC-FL-IN	7/8/2022 7:45	38	19.3	0.6	42.1	67.1	0.328	97.6	97.4	>>>>	1.95	67.1
IC-FL-IN	10/17/2022 12:30	44.8	19.9	0	35.3	66.5	0.311	96.5	96.2	>>>>	1.96	66.4
IC-FL-IN	12/8/2022 12:29	41.2	20	0.6	38.2	49.2	0.282	92.6	93	>>>>	1.89	48.7
IC-GP11D	4/19/2022 9:52	0	2.3	19.1	78.6							
IC-GP11D	7/7/2022 9:43	0	2	18.5	79.5							
IC-GP11D	10/18/2022 9:24	0	1.5	19.8	78.7							
IC-GP11S	4/19/2022 9:51	0	2.5	18.9	78.6							
IC-GP11S	7/7/2022 9:42	0	2.9	17.5	79.6							
IC-GP11S	10/18/2022 9:22	0	1.3	19.9	78.8							
IC-GP13D	4/18/2022 15:01	0	1.3	19.6	79.1							
IC-GP13D	7/7/2022 9:03	0	2	18.2	79.8							
IC-GP13D	10/17/2022 9:22	0	2.5	18.8	78.7							
IC-GP13S	4/18/2022 14:57	0	1.9	18.6	79.5							
IC-GP13S	7/7/2022 8:59	0	0.4	20	79.6							
IC-GP13S	10/17/2022 9:18	0	1	20.6	78.4							
IC-GP15D	1/18/2022 8:31	1.2	6.5	13	79.3							
IC-GP15D	3/2/2022 9:15	0	5.8	13.9	80.3							
IC-GP15D	4/19/2022 8:50	0	5.3	14.3	80.4							
IC-GP15D	6/1/2022 8:50	0	4.4	15.4	80.2							
IC-GP15D	7/7/2022 8:05	0	2.5	17.7	79.8							
IC-GP15D	10/17/2022 13:03	0	2.8	17.2	80							
IC-GP15D	12/8/2022 10:16	0	5.2	13.5	81.3							
IC-GP15S	1/18/2022 8:30	1.1	3.8	15	80.1							
IC-GP15S	3/2/2022 9:14	0	3.8	15.9	80.3							
IC-GP15S	4/19/2022 8:49	0	3.6	16.6	79.8							
IC-GP15S	6/1/2022 8:48	0	3.8	16	80.2							
IC-GP15S	7/7/2022 8:03	0	2.8	17.6	79.6							
IC-GP15S	10/17/2022 13:02	0	1.8	18.7	79.5							
IC-GP15S	12/8/2022 10:15	0	3.6	14.7	81.7							
IC-GP17D	1/18/2022 8:37	1.4	4	15.6	79							
IC-GP17D	3/2/2022 9:29	0	0.2	20.9	78.9							
IC-GP17D	4/19/2022 8:57	0	3.4	16.9	79.7							

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	Init Diff Press	Init Flow (scfm)	Adj Flow (SCFM)	System Pressure
IC-GP17D	6/1/2022 8:56	0	3	17.4	79.6							
IC-GP17D	7/8/2022 7:38	0	1.3	18.9	79.8							
IC-GP17D	10/17/2022 12:59	0	1.9	19.2	78.9							
IC-GP17D	12/8/2022 10:21	0	2.7	17	80.3							
IC-GP17S	1/18/2022 8:36	1.3	2	18.2	78.5							
IC-GP17S	3/2/2022 9:25	0	1.7	18.7	79.6							
IC-GP17S	4/19/2022 8:56	0	1.9	18.5	79.6							
IC-GP17S	6/1/2022 8:55	0	2.4	18.1	79.5							
IC-GP17S	7/7/2022 8:11	0	2	18.5	79.5							
IC-GP17S	10/17/2022 12:58	0	1.5	19.8	78.7							
IC-GP17S	12/8/2022 10:20	0	3	17.8	79.2							
IC-GP-1D	1/18/2022 14:04	0	2	19	79							
IC-GP-1D	4/18/2022 14:49	0	2.8	18.6	78.6							
IC-GP-1D	10/18/2022 9:13	0	0.2	20.9	78.9							
IC-GP-1S	1/18/2022 14:00	0	1.3	19.6	79.1							
IC-GP-1S	4/18/2022 14:43	0	2.1	19.1	78.8							
IC-GP-1S	10/18/2022 9:12	0	0.4	20.8	78.8							
ICGP2018	4/18/2022 15:12	0	3.9	16.7	79.4							
ICGP2018	7/7/2022 9:15	0	3.2	17.4	79.4							
ICGP2018	10/17/2022 9:35	0	3.9	17.2	78.9							
ICGP2038	4/18/2022 15:18	0	6.4	13.7	79.9							
ICGP2038	7/7/2022 9:19	0	5.2	14.8	80							
ICGP2038	10/17/2022 9:41	0	5.5	14.6	79.9							
ICGP2058	4/18/2022 15:24	0	8	11.7	80.3							
ICGP2058	7/7/2022 9:25	0	7.4	12.1	80.5							
ICGP2058	10/17/2022 9:46	0	7.3	11.5	81.2							
ICGP2078	4/18/2022 15:30	0	8.8	9.5	81.7							
ICGP2078	7/7/2022 9:30	0	8.7	9.7	81.6							
ICGP2078	10/17/2022 9:52	0	8.7	9	82.3							
ICGP2098	4/18/2022 15:37	0	8.5	9.2	82.3							
ICGP2098	7/7/2022 9:33	0	0.2	20.2	79.6							
ICGP2098	10/17/2022 9:59	0	0.2	15.9	83.9							
ICGP2118	4/18/2022 15:49	0	2.6	18.7	78.7							
ICGP2118	7/7/2022 7:35	0	2.8	17.3	79.9							
ICGP2118	10/17/2022 8:42	0	2.6	19	78.4							
ICGP2138	4/18/2022 15:56	0	3.5	17.6	78.9							
ICGP2138	7/7/2022 7:41	0	3.8	16.3	79.9							
ICGP2138	10/17/2022 8:52	0	3.7	18	78.3							
ICGP2158	4/18/2022 16:03	0	4.2	16.6	79.2							
ICGP2158	7/7/2022 7:46	0	4.3	15.7	80							
ICGP2158	10/17/2022 8:58	0	4.4	17	78.6							
ICGP2178	4/18/2022 16:09	0	4.6	15.7	79.7							
ICGP2178	7/7/2022 7:52	0	4.7	15.2	80.1							
ICGP2178	10/17/2022 9:03	0	4.4	16.8	78.8							
ICGP2198	4/18/2022 16:15	0	4.8	15.3	79.9							
ICGP2198	7/7/2022 7:56	0	4.4	15.3	80.3							
ICGP2198	10/17/2022 9:09	0	4.5	15.5	80							
IC-GP-22	4/19/2022 8:40	0	1.7	19.1	79.2							
IC-GP-22	7/7/2022 7:24	0	1.6	18.5	79.9							
IC-GP-22	10/17/2022 8:15	0	2.1	18.4	79.5							

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	Init Diff Press	Init Flow (scfm)	Adj Flow (SCFM)	System Pressure
ICGP2318	1/18/2022 14:16	0	2.3	18.8	78.9							
ICGP2318	4/18/2022 16:25	0	2.4	19.2	78.4							
ICGP2318	7/8/2022 7:09	0	3.1	17.3	79.6							
ICGP2318	10/18/2022 9:33	0	2.8	18.8	78.4							
ICGP2338	1/18/2022 14:25	0	3.1	18.1	78.8							
ICGP2338	4/18/2022 16:31	0	2.7	18.9	78.4							
ICGP2338	7/8/2022 7:14	0	3	17.3	79.7							
ICGP2338	10/18/2022 9:35	0	2.5	18.8	78.7							
ICGP2358	1/18/2022 14:32	0	3.1	18	78.9							
ICGP2358	4/18/2022 16:37	0	3	18.2	78.8							
ICGP2358	7/8/2022 7:20	0	3.1	17.2	79.7							
ICGP2358	10/18/2022 9:38	0	0.6	20.5	78.9							
ICGP2378	1/18/2022 14:40	0	3	17.6	79.4							
ICGP2378	4/18/2022 16:46	0	3.1	17.8	79.1							
ICGP2378	7/8/2022 7:27	0	3.1	16.6	80.3							
ICGP2378	10/18/2022 9:40	0	0.2	20.8	79							
ICGP2398	1/18/2022 14:45	0	3.2	17.3	79.5							
ICGP2398	4/18/2022 16:54	0	3.1	17.6	79.3							
ICGP2398	7/8/2022 7:32	0	3.4	16.4	80.2							
ICGP2398	10/18/2022 9:43	0	2.5	18.4	79.1							
ICGP2418	1/18/2022 13:21	0	2.6	18.2	79.2							
ICGP2418	4/18/2022 14:00	0	3	17.7	79.3							
ICGP2418	10/18/2022 8:45	0	3.1	18.4	78.5							
ICGP2438	1/18/2022 13:31	0	4.1	16.3	79.6							
ICGP2438	4/18/2022 14:08	0	3.9	16.3	79.8							
ICGP2438	10/18/2022 8:50	0	3.9	17.2	78.9							
ICGP2458	1/18/2022 13:39	0	4.8	15.1	80.1							
ICGP2458	4/18/2022 14:18	0	4.9	14.6	80.5							
ICGP2458	10/18/2022 8:55	0	3.3	17	79.7							
ICGP2478	1/18/2022 13:46	0	5.3	14.2	80.5							
ICGP2478	4/18/2022 14:26	0	5.4	13.6	81							
ICGP2478	10/18/2022 9:00	0.2	1.3	12.2	86.3							
ICGP2498	1/18/2022 13:52	0	0.2	20.6	79.2							
ICGP2498	4/18/2022 14:32	0	5.7	12.6	81.7							
ICGP2498	10/18/2022 9:07	0	0.2	20.9	78.9							
ICGP2518	1/18/2022 12:28	0.7	6.1	15.3	77.9							
ICGP2518	4/18/2022 13:12	0	6.3	14.8	78.9							
ICGP2518	7/6/2022 14:43	0	8.3	11.7	80							
ICGP2518	10/18/2022 8:06	0	10.1	12.9	77							
ICGP2538	1/18/2022 12:33	0.7	5.8	15	78.5							
ICGP2538	4/18/2022 13:18	0	5.3	15.4	79.3							
ICGP2538	7/6/2022 14:50	0	5.7	13.4	80.9							
ICGP2538	10/18/2022 8:12	0	8	13.8	78.2							
ICGP2558	1/18/2022 12:39	0.6	5.8	14.6	79							
ICGP2558	4/18/2022 13:24	0	5.5	15.1	79.4							
ICGP2558	7/6/2022 14:55	0	5.5	13.3	81.2							
ICGP2558	10/18/2022 8:17	0	6.2	14.7	79.1							
ICGP2578	1/18/2022 12:47	0.6	5.8	14.4	79.2							
ICGP2578	4/18/2022 13:31	0	5.6	14.8	79.6							
ICGP2578	7/6/2022 15:01	0	5.7	13.1	81.2							

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	Init Diff Press	Init Flow (scfm)	Adj Flow (SCFM)	System Pressure
ICGP2578	10/18/2022 8:21	0	6.4	14.6	79							
ICGP2598	1/18/2022 12:56	0	0.6	20.6	78.8							
ICGP2598	4/18/2022 13:38	0	5.6	14.6	79.8							
ICGP2598	7/6/2022 15:10	0	5.6	13.1	81.3							
ICGP2598	10/18/2022 8:27	0	0.8	20.8	78.4							
ICGP2618	4/19/2022 10:03	0	3.7	16	80.3							
ICGP2618	7/7/2022 9:53	0	3.6	15.6	80.8							
ICGP2618	10/17/2022 12:43	0	2.9	15.3	81.8							
ICGP2638	4/19/2022 10:09	0	2.2	18.3	79.5							
ICGP2638	7/7/2022 9:58	0	2.7	17.1	80.2							
ICGP2638	10/17/2022 12:49	0	2.9	9.9	87.2							
ICGP2658	4/19/2022 10:17	0	3.3	15.2	81.5							
ICGP2658	7/7/2022 10:02	0	3.4	14.7	81.9							
ICGP2658	10/17/2022 12:53	0	3	13.3	83.7							
IC-GP-27	4/18/2022 15:06	0	8.7	10.7	80.6							
IC-GP-27	7/7/2022 9:08	0	8.7	10.6	80.7							
IC-GP-27	10/17/2022 9:28	0	9	11.2	79.8							
IC-GP-28	4/18/2022 15:41	0	7.1	12.6	80.3							
IC-GP-28	7/7/2022 7:28	0	7.3	12	80.7							
IC-GP-28	10/17/2022 8:34	0	7.4	13.4	79.2							
ICGP2998	4/19/2022 8:45	0	3.8	16	80.2							
ICGP2998	7/7/2022 7:21	0	4.5	14.4	81.1							
ICGP2998	10/17/2022 8:25	0.1	4.5	15.3	80.1							
ICGP3018	1/18/2022 9:01	54.2	5.1	1.1	39.6							
ICGP3018	3/2/2022 9:51	49.3	4.6	0.3	45.8							
ICGP3018	4/19/2022 9:17	47.3	4.6	0.8	47.3							
ICGP3018	6/1/2022 9:04	51.5	4.1	0	44.4							
ICGP3018	7/7/2022 8:25	46.5	6.3	0.4	46.8							
ICGP3018	10/17/2022 10:20	43.7	4.8	0	51.5							
ICGP3018	12/8/2022 10:33	39.5	5.3	0.6	54.6							
ICGP3038	1/18/2022 9:10	35.6	9.7	0.1	54.6							
ICGP3038	3/2/2022 9:54	29.7	8.9	0	61.4							
ICGP3038	4/19/2022 9:23	30.4	9.2	0	60.4							
ICGP3038	6/1/2022 9:11	30	8.4	0	61.6							
ICGP3038	7/7/2022 8:28	30.9	8.4	0	60.7							
ICGP3038	10/17/2022 10:24	27	7.8	0	65.2							
ICGP3038	12/8/2022 10:36	23.2	9.3	0	67.5							
ICGP3069	1/18/2022 9:21	13.5	19.4	0	67.1							
ICGP3069	3/2/2022 10:01	9.2	19.1	0	71.7							
ICGP3069	4/19/2022 9:29	8.4	18.7	0	72.9							
ICGP3069	6/1/2022 9:18	7.6	19	0	73.4							
ICGP3069	7/7/2022 8:34	6.9	19.7	0	73.4							
ICGP3069	10/17/2022 10:29	4.4	18	0	77.6							
ICGP3069	12/8/2022 10:41	4	20	0	76							
ICGP3081	1/18/2022 9:29	8.6	19.1	0.1	72.2							
ICGP3081	3/2/2022 10:07	5.3	18.4	0	76.3							
ICGP3081	4/19/2022 9:35	4.5	18.1	0	77.4							
ICGP3081	6/1/2022 9:24	3.6	18.3	0	78.1							
ICGP3081	7/7/2022 8:40	2.1	18.9	0	79							
ICGP3081	10/17/2022 10:35	1.7	17.5	0	80.8							

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ICGP3081	12/8/2022 10:46	1	19.7	0	79.3							
ICGP3092	1/18/2022 9:38	5.8	18.8	0.1	75.3							
ICGP3092	3/2/2022 10:13	3	17.9	0	79.1							
ICGP3092	4/19/2022 9:41	2.2	17.7	0	80.1							
ICGP3092	6/1/2022 9:33	0.6	18	0	81.4							
ICGP3092	7/8/2022 7:01	0.8	18.8	0	80.4							
ICGP3092	10/17/2022 10:43	0.2	18.9	0	80.9							
ICGP3092	12/8/2022 10:55	0	19.4	0.6	80							
IC-GP-6D	1/18/2022 13:12	0	3.2	17.6	79.2							
IC-GP-6D	4/18/2022 13:52	0	6	13.9	80.1							
IC-GP-6D	7/6/2022 15:22	0	3.6	15.4	81							
IC-GP-6D	10/18/2022 8:40	0	0.7	20.4	78.9							
IC-GP-6S	1/18/2022 13:03	0	0.4	20.6	79							
IC-GP-6S	4/18/2022 13:46	0	5.6	14.4	80							
IC-GP-6S	7/6/2022 15:18	0	3.5	15.9	80.6							
IC-GP-6S	10/18/2022 8:38	0.1	0.4	20.9	78.6							
IC-GPS6D	1/18/2022 8:47	1.6	9.3	9.5	79.6							
IC-GPS6D	3/2/2022 9:38	0	9.4	7.7	82.9							
IC-GPS6D	4/19/2022 9:05	0	10.9	5.9	83.2							
IC-GPS6D	6/1/2022 8:43	0	8.8	10.3	80.9							
IC-GPS6D	7/7/2022 8:18	0	5.2	16	78.8							
IC-GPS6D	12/8/2022 10:26	0	9.9	9	81.1							
IC-GPS6S	1/18/2022 8:45	1.6	0.5	19.7	78.2							
IC-GPS6S	3/2/2022 9:39	0	0.3	20.6	79.1							
IC-GPS6S	4/19/2022 9:03	0	0.2	20.7	79.1							
IC-GPS6S	6/1/2022 8:41	0	9.6	8.3	82.1							
IC-GPS6S	7/7/2022 8:15	0	0.3	20	79.7							
IC-GPS6S	12/8/2022 10:24	0	8.2	9.5	82.3							
IC-GP-W1	4/19/2022 9:46	0	1.7	19.7	78.6							
IC-GP-W1	7/7/2022 9:37	0	0.7	19.6	79.7							
IC-GP-W1	10/18/2022 9:18	0	0.3	20.8	78.9							
IC-HGW-1	1/18/2022 9:49	34.2	17.6	0	48.2	44.7	0	0	0	>>>>	-0.01	44.7
IC-HGW-1	3/2/2022 10:25	33.4	16.3	0	50.3	52.6	-0.002	0	0	>>>>	0.01	52.7
IC-HGW-1	4/19/2022 10:24	31.4	15.4	0	53.2	49.6	-0.001	0	0	>>>>	-0.01	49.7
IC-HGW-1	6/1/2022 9:46	44.3	16.9	0	38.8	64.7	0	0	0	>>>>	0	64.6
IC-HGW-1	7/7/2022 10:17	31.7	16.5	0.1	51.7	64.7	0	0	0	>>>>	0	64.8
IC-HGW-1	10/17/2022 10:52	40.4	20.2	0	39.4	76.4	-0.001	0	0	>>>>	0.01	76.4
IC-HGW-1	12/8/2022 11:02	28.1	20.4	0	51.5	44.1	0	0	0	>>>>	0	44.1
IC-HGW-2	1/18/2022 10:01	66.5	20	0	13.5	46.1	2.641	24.5	24.5	>>>>	-4	45.9
IC-HGW-2	3/2/2022 10:48	63.2	17.9	0	18.9	51.3	2.449	23.4	23.4	>>>>	-3.45	51.3
IC-HGW-2	4/19/2022 10:36	60.8	16.4	0	22.8	46.3	2.38	23.2	23.2	>>>>	-3.81	46.4
IC-HGW-2	6/1/2022 10:20	65.7	18.8	0	15.5	70.6	0.001	0.5	0.5	>>>>	-2.59	70.6
IC-HGW-2	7/7/2022 10:37	49.3	18.1	0	32.6	72	1.722	18.6	18.6	>>>>	-2.72	72.1
IC-HGW-2	10/17/2022 11:03	58	24.3	0	17.7	69.6	1.944	19.8	19.8	>>>>	-2.74	70
IC-HGW-2	12/8/2022 11:10	58.5	19.4	0	22.1	41.9	2.285	22.5	22.4	>>>>	-3.41	41.9
IC-HGW-3	1/18/2022 10:06	30.5	22	0	47.5	45.8	4.191	1.8	1.8	>>>>	-0.75	45.8
IC-HGW-3	3/2/2022 10:53	29.3	21.1	0	49.6	52.6	3.984	1.8	1.8	>>>>	-0.36	52.6
IC-HGW-3	4/19/2022 10:40	25.9	20.1	0	54	46.8	4.069	1.8	1.8	>>>>	-0.63	47
IC-HGW-3	6/1/2022 10:26	36.5	18.5	0	45	71.2	0.001	0	0	>>>>	-0.21	71.2
IC-HGW-3	7/7/2022 10:44	31.8	23.2	0	45	71.3	2.638	1.4	1.4	>>>>	-0.47	71.6

Table 7. Landfill Gas Monitoring Data
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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	Init Diff Press	Init Flow (scfm)	Adj Flow (SCFM)	System Pressure
IC-HGW-3	10/17/2022 11:11	42.9	23.7	0	33.4	76.7	3.116	1.6	1.6	>>>>	-0.05	77.1
IC-HGW-3	12/8/2022 11:14	30.1	24.3	0	45.6	41.5	3.645	1.7	1.7	>>>>	-0.23	41.3
IC-HGW-4	1/18/2022 10:13	38	21.4	0	40.6	45.9	1.822	3	3	>>>>	-0.74	45.9
IC-HGW-4	3/2/2022 10:58	37.4	19.3	0	43.3	51.8	1.84	3	3	>>>>	-0.36	51.9
IC-HGW-4	4/19/2022 10:45	35	19.8	0	45.2	47.7	1.813	2.9	2.9	>>>>	-0.66	47.7
IC-HGW-4	6/1/2022 10:37	41.9	16.8	0	41.3	68.3	0.001	0.1	0.1	>>>>	-0.17	67.8
IC-HGW-4	7/7/2022 10:52	35.4	19.8	0	44.8	78.6	1.256	2.4	2.4	>>>>	-0.43	78.8
IC-HGW-4	10/17/2022 11:17	43.9	24.2	0	31.9	71	1.501	2.6	2.6	>>>>	-0.19	71.1
IC-HGW-4	12/8/2022 11:22	32.4	21.2	0	46.4	45.4	1.717	2.8	2.8	>>>>	-0.18	45.4
IC-HGW-5	1/18/2022 10:19	51.9	22.9	0	25.2	45.5	2.87	1.6	1.6	>>>>	-0.75	45.5
IC-HGW-5	3/2/2022 11:06	43.3	21	0	35.7	51.5	2.958	1.6	1.6	>>>>	-0.49	51.4
IC-HGW-5	4/19/2022 10:54	46.4	21.3	0	32.3	49.3	2.729	1.5	1.5	>>>>	-0.57	49.3
IC-HGW-5	6/1/2022 10:44	42.3	20.9	0	36.8	69.7	0	0	0	>>>>	-0.09	69
IC-HGW-5	7/7/2022 10:57	42.5	23.9	0	33.6	79	1.958	1.2	1.2	>>>>	-0.39	79.1
IC-HGW-5	10/17/2022 11:23	46.2	27.3	0	26.5	75	2.138	1.3	1.3	>>>>	-0.15	75.4
IC-HGW-5	12/8/2022 11:26	33.2	24.1	0	42.7	44.1	2.424	1.4	1.4	>>>>	-0.15	44.4
IC-HGW-6	1/18/2022 10:25	46.7	17	0	36.3	45.9	1.443	10.3	10.4	>>>>	-1.32	45.9
IC-HGW-6	3/2/2022 11:46	47.2	15.7	0	37.1	51.5	1.543	10.7	10.7	>>>>	-0.98	51.4
IC-HGW-6	4/19/2022 10:57	44.6	15.9	0	39.5	48.8	1.445	10.3	10.3	>>>>	-1.08	49.2
IC-HGW-6	6/1/2022 10:49	43.9	18.1	0	38	69.6	0	0.2	0.2	>>>>	-0.54	70.1
IC-HGW-6	7/7/2022 11:01	33.5	17.6	0	48.9	77.6	1.042	8.3	8.3	>>>>	-0.73	78.1
IC-HGW-6	10/17/2022 11:29	43.8	20.3	0	35.9	69.2	1.059	8.5	8.5	>>>>	-0.55	69.7
IC-HGW-6	12/8/2022 11:29	40.9	19.9	0	39.2	44.1	1.364	9.6	9.9	>>>>	-0.64	44.1
IC-HGW-7	1/18/2022 10:36	44.2	15.7	0	40.1	46.1	1.622	10.9	10.9	>>>>	-1.31	46.1
IC-HGW-7	3/2/2022 11:59	43.6	14.3	0	42.1	51	1.525	10.6	10.6	>>>>	-0.97	51
IC-HGW-7	4/19/2022 11:05	42.6	13.5	0	43.9	52.8	1.434	10.1	10.3	>>>>	-1.27	52.9
IC-HGW-7	6/1/2022 10:57	39.5	9.8	0	50.7	74.1	0	0	0	>>>>	-0.54	74.1
IC-HGW-7	7/7/2022 11:06	26.8	15.8	0	57.4	82.7	0.89	7.5	7.5	>>>>	-0.98	82.9
IC-HGW-7	10/17/2022 11:47	38	12.2	0	49.8	72.5	1.262	9.4	9.4	>>>>	-0.73	72.8
IC-HGW-7	12/8/2022 11:35	39.7	15.7	0	44.6	44.2	1.487	10.4	10.4	>>>>	-0.8	44.2
IC-HGW-8	1/18/2022 10:50	48.2	14	0	37.8	47.2	2.954	3.9	3.9	>>>>	-0.68	47.1
IC-HGW-8	3/2/2022 12:13	48.8	13.2	0	38	52.1	2.124	3.3	3.3	>>>>	-0.46	52.1
IC-HGW-8	4/19/2022 11:12	46.5	13.1	0	40.4	52	2.244	3.4	3.5	>>>>	-0.64	52
IC-HGW-8	6/1/2022 11:08	35.6	15.3	0	49.1	68.1	0	0	0	>>>>	-0.29	68.1
IC-HGW-8	7/7/2022 11:20	19.5	14.2	0	66.3	79.6	1.606	2.6	2.6	>>>>	-0.7	79.9
IC-HGW-8	10/17/2022 11:57	45.6	16	0	38.4	64.3	1.875	3.1	3.1	>>>>	-0.29	64.3
IC-HGW-8	12/8/2022 11:39	41.1	18.2	0	40.7	44.9	2.268	3.3	3.4	>>>>	-0.28	44.9
IC-HGW-9	1/18/2022 11:07	68.4	18.1	0	13.5	48.3	3.471	1.9	1.9	>>>>	-0.69	48.3
IC-HGW-9	3/2/2022 12:23	59.9	15.4	1.4	23.3	52.3	3.18	1.7	1.7	>>>>	-0.42	52.3
IC-HGW-9	4/19/2022 11:23	50.9	14.4	2.7	32	52.5	2.702	1.5	1.6	>>>>	-0.73	52.2
IC-HGW-9	6/1/2022 11:19	43.7	16.4	3.7	36.2	72.7	0.002	0	0	>>>>	-0.89	72.8
IC-HGW-9	7/7/2022 11:43	33.7	15.2	4.9	46.2	78.2	1.66	1.2	1.2	>>>>	-1.23	78.4
IC-HGW-9	10/17/2022 12:13	37.2	17.6	2.6	42.6	74.9	2.042	1.3	1.3	>>>>	-0.87	75
IC-HGW-9	12/8/2022 11:47	49.1	23.7	0	27.2	45	2.873	1.6	1.6	>>>>	-0.42	45
IC-SC-OF	4/19/2022 8:38	0	0.2	20.9	78.9							
IC-SC-OF	7/7/2022 8:49	0	0.5	19.8	79.7							
IC-SC-OF	10/17/2022 8:18	0	0.3	20.6	79.1							
IC-SH-BA	4/19/2022 8:37	0	0.2	20.9	78.9							
IC-SH-BA	7/7/2022 8:48	0	1	19.5	79.5							
IC-SH-BA	10/17/2022 8:17	0	0.5	20.5	79							

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Point ID	Record Date	CH4%	CO2%	O2%	Bal Gas%	Init Temp (F)	Init Static Pressure ("H2O)	Adj Static Pressure ("H20)	Init Diff Press	Init Flow (scfm)	Adj Flow (SCFM)	System Pressure
IC-T--LG	1/18/2022 11:24	50.6	17.5	0.8	31.1	48.3	8.346	0	0	>>>>	-8.31	48.4
IC-T--LG	3/2/2022 12:35	49.8	16.9	0.4	32.9	54.7	7.898	0	0	>>>>	-7.84	54.7
IC-T--LG	4/19/2022 11:44	47	16.6	0.3	36.1	50.7	7.659	0	0	>>>>	-7.44	50.8
IC-T--LG	6/1/2022 11:38	45.9	16.2	0.4	37.5	65.9	-0.002	0	0	>>>>	-5.99	65.9
IC-T--LG	7/7/2022 12:07	36.4	18.1	0.4	45.1	81	5.941	0	0	>>>>	-5.94	81.1
IC-T--LG	10/17/2022 12:27	44.9	19.1	0	36	64.1	6.347	0	0	>>>>	-6.31	64
IC-T--LG	12/8/2022 12:21	41.8	19.9	0.6	37.7	45.8	8.962	0	0	>>>>	-8.64	45.7
IC-T--SV	1/18/2022 11:25	6.8	16.4	1.1	75.7	48.1	>>>>	0	0	>>>>	-20.71	48
IC-T--SV	3/2/2022 12:36	4.9	15.4	1.6	78.1	55.5	>>>>	0	0	98	-20.65	55.5
IC-T--SV	4/19/2022 11:45	4.9	15.4	1	78.7	50.8	>>>>	0	0	98	-20.15	51
IC-T--SV	6/1/2022 11:40	4.6	14.7	1.6	79.1	67.3	-0.002	0	0	92	-18.47	67
IC-T--SV	7/8/2022 7:43	4.2	15.7	1.7	78.4	65.5	>>>>	0	0	84	-19.82	65.7
IC-T--SV	10/17/2022 12:28	4	15.6	1.2	79.2	64.2	>>>>	0	0	80	-19.64	64.1
IC-T--SV	12/8/2022 12:25	4.2	16.1	1.7	78	43.7	>>>>	0	0	84	-21.27	43.8
IC-VGW-1	1/18/2022 9:53	5.3	16.1	0.2	78.4	45.1	2.693	12.9	12.9	>>>>	-4.99	45.1
IC-VGW-1	3/2/2022 10:37	3.6	15.6	0	80.8	52.2	2.078	11.2	11.2	72	-3.71	52.2
IC-VGW-1	4/19/2022 10:27	3.5	15.2	0	81.3	46.6	2.361	12	12.1	70	-4.43	46.4
IC-VGW-1	6/1/2022 9:56	4.4	14.8	0	80.8	68.6	0	0.1	0	88	-3.16	66.5
IC-VGW-1	7/7/2022 10:20	3.4	15.5	0.1	81	64.2	0.614	6.1	6.1	68	-2.22	64.2
IC-VGW-1	10/17/2022 10:54	2.8	15.8	0	81.4	80.7	0.814	6.8	6.8	56	-2.44	80.9
IC-VGW-1	12/8/2022 11:04	4.6	16.5	0	78.9	42.3	0.873	7.4	7.4	92	-2.42	42.3
IC-VGW-2	1/18/2022 9:59	45	7.2	0	47.8	45.1	3.665	1.9	1.9	>>>>	-1.05	45.1
IC-VGW-2	3/2/2022 10:44	42.7	6.8	0	50.5	51.3	3.463	1.8	1.8	>>>>	-0.74	51.3
IC-VGW-2	4/19/2022 10:34	42	6.7	0	51.3	46	3.103	1.7	1.7	>>>>	-0.97	46
IC-VGW-2	6/1/2022 10:18	41.1	6.6	0	52.3	66.6	0	0	0	>>>>	-0.55	66.3
IC-VGW-2	7/7/2022 10:35	30.2	5.3	3.3	61.2	69.8	2.29	1.4	1.4	>>>>	-0.68	69.1
IC-VGW-2	10/17/2022 11:01	36.4	7.2	0	56.4	64.9	2.809	1.6	1.6	>>>>	-0.47	64.8
IC-VGW-2	12/8/2022 11:08	34.2	9.6	0	56.2	43.5	3.672	1.8	1.8	>>>>	-0.58	43.5
IC-VGW-3	1/18/2022 10:10	46.8	15.3	0	37.9	45.5	4.194	2	2	>>>>	-0.99	45.5
IC-VGW-3	3/2/2022 10:56	41.3	14.7	0	44	51.9	4.006	1.9	1.9	>>>>	-0.49	51.9
IC-VGW-3	4/19/2022 10:43	41.2	14.3	0	44.5	50.2	3.777	1.8	1.8	>>>>	-0.86	50.5
IC-VGW-3	6/1/2022 10:35	39.2	16.7	0	44.1	70.9	0.001	0	0	>>>>	-0.28	71.7
IC-VGW-3	7/7/2022 10:50	38.8	13.8	0	47.4	72.3	2.7	1.5	1.5	>>>>	-0.54	72.4
IC-VGW-3	10/17/2022 11:15	43.1	14.3	0	42.6	65.9	3.184	1.6	1.7	>>>>	-0.3	65.8
IC-VGW-3	12/8/2022 11:20	34.7	19.2	0	46.1	43.6	0.277	0.5	0.5	>>>>	-0.22	43.6
IC-VGW-4	1/18/2022 10:29	42.6	10.7	0.2	46.5	45.8	-0.001	0	0	>>>>	0.01	45.8
IC-VGW-4	3/2/2022 11:49	38.8	8	0.5	52.7	50.5	-0.001	0	0	>>>>	0	50.5
IC-VGW-4	4/19/2022 11:01	38.7	7.1	0.5	53.7	53	-0.002	0	0	>>>>	0	52.8
IC-VGW-4	6/1/2022 10:51	37.6	12.7	0	49.7	72.7	0	0	0	>>>>	-0.03	72.8
IC-VGW-4	7/7/2022 11:03	0.4	1.3	19	79.3	79.7	-0.001	0	0	8	0	79.7
IC-VGW-4	10/17/2022 11:34	27.7	7.2	1.2	63.9	72.3	0	0	0	>>>>	0.01	72.3
IC-VGW-4	12/8/2022 11:31	29.6	10.7	1.4	58.3	45.1	0	0	0	>>>>	0	45.2
IC-VGW-5	1/18/2022 10:43	8	17.5	0.2	74.3	46.4	7.385	35.8	34.9	>>>>	-10.05	46.1
IC-VGW-5	3/2/2022 12:09	6.1	16.9	0	77	51.4	7.646	36	36.1	>>>>	-10.19	51.3
IC-VGW-5	4/19/2022 11:10	5.8	16.5	0	77.7	52.2	7.129	34.8	34.7	>>>>	-10.05	52.8
IC-VGW-5	6/1/2022 11:02	14.6	11.4	0	74	70.1	0	0	0	>>>>	-9.26	70.9
IC-VGW-5	7/7/2022 11:11	7.2	16	0.5	76.3	82	6.911	32.8	33.6	>>>>	-9.76	82.2
IC-VGW-5	10/17/2022 11:52	5	16	0	79	64.6	7.014	34.2	34.6	>>>>	-9.66	64.5
IC-VGW-5	12/8/2022 11:37	4.7	17.4	0.5	77.4	44.9	5.607	30.8	34.4	94	-11.51	44.9
IC-VGW-6	1/18/2022 10:52	50.2	12.1	0	37.7	47	4.496	2.1	2.1	>>>>	-1	47

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IC-VGW-6	3/2/2022 12:14	50.1	11.6	0	38.3	52.3	4.282	2	2	>>>>	-0.57	52.3
IC-VGW-6	4/19/2022 11:14	49.2	11	0	39.8	49.3	4.028	1.9	1.9	>>>>	-0.75	49.6
IC-VGW-6	6/1/2022 11:10	43	12.4	0	44.6	74.2	0.001	0	0	>>>>	-0.1	74.3
IC-VGW-6	7/7/2022 11:21	37.3	11.3	0	51.4	82.7	2.909	1.5	1.6	>>>>	-0.8	82.9
IC-VGW-6	10/17/2022 11:59	41.3	13.2	0	45.5	66.4	3.283	1.7	1.7	>>>>	-0.49	66.7
IC-VGW-6	12/8/2022 11:41	40.1	14.3	0	45.6	44.2	4.135	1.9	1.9	>>>>	-0.5	44.1
IC-VGW-7	1/18/2022 11:06	3.3	20.4	0.1	76.2	47.7	3.405	1.6	1.6	66	-12.95	47.8
IC-VGW-7	3/2/2022 12:21	2.2	20.4	0	77.4	52	5.551	2	2	44	-11.92	51.8
IC-VGW-7	4/19/2022 11:22	3	20	0	77	54.5	4.539	1.8	1.8	60	-13.04	54.5
IC-VGW-7	6/1/2022 11:17	4.4	18.9	0	76.7	68	0.002	0	0	88	-12.05	68.5
IC-VGW-7	7/7/2022 11:45	2.2	19.1	0	78.7	82.4	4.451	1.7	1.7	44	-12.01	82.6
IC-VGW-7	10/17/2022 12:11	2.5	19.7	0	77.8	74.1	3.884	1.6	1.9	50	-11.81	74.3
IC-VGW-7	12/8/2022 11:45	1.6	21.7	0	76.7	44.2	5.889	2	2.1	32	-12.98	44.2
IC-VGW-8	1/18/2022 11:03	14.4	24.5	0	61.1	46.2	-0.001	0	0	>>>>	-0.06	46.1
IC-VGW-8	3/2/2022 12:18	13.5	25.9	0	60.6	52.8	-0.001	0	0	>>>>	0	52.7
IC-VGW-8	4/19/2022 11:20	12.3	23.9	0	63.8	49.8	1.941	2.9	2.9	>>>>	-0.1	49.5
IC-VGW-8	6/1/2022 11:15	22.5	15.5	0	62	73.4	0.001	0.1	0.1	>>>>	-0.13	73.4
IC-VGW-8	7/7/2022 11:34	8.9	21.2	0	69.9	80.7	1.426	2.4	2.4	>>>>	-0.2	80.9
IC-VGW-8	10/17/2022 12:09	20.8	18.5	0	60.7	69	1.075	2.2	2.2	>>>>	-0.01	69.1
IC-VGW-8	12/8/2022 11:44	18	20.8	0	61.2	45.6	1.55	2.6	2.6	>>>>	-0.14	45.6
IC-VGW-9	1/18/2022 11:10	1.3	8.6	11.1	79	47.4	0.164	5.4	5.5	26	-1.5	47.3
IC-VGW-9	3/2/2022 12:25	0.8	8.1	9.4	81.7	52.7	0.077	3.7	3.7	16	-1.13	52.7
IC-VGW-9	4/19/2022 11:26	0.5	7.4	11.5	80.6	52.4	0.067	3.4	3.4	10	-1.29	52.3
IC-VGW-9	6/1/2022 11:21	0.8	7.3	12.2	79.7	70	0.002	0.5	0.6	16	-0.89	70
IC-VGW-9	7/7/2022 11:55	0.2	7	12.5	80.3	85.8	0.075	3.5	3.5	4	-1.45	85.9
IC-VGW-9	10/17/2022 12:17	0.2	6.2	11.2	82.4	74.9	0.107	4.2	4.2	4	-1.14	74.9
IC-VGW-9	12/8/2022 11:49	0.8	9.1	12.9	77.2	42.5	0.116	4.4	4.5	16	-0.93	42.4
ICGPS-6D	10/17/2022 10:13	0	4.1	16.1	79.8							
ICGPS-6S	10/17/2022 10:09	0	1.5	17.9	80.6							

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Table 8. Source Control Operations Data
2022 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
12/27/2005	43,217	49,603	317	2,371	
12/26/2006	45,921	53,933	3,027	22,642	
12/31/2007	49,169	58,359	4,682	35,021	
12/31/2008	52,316	62,748	6,970	52,136	
12/29/2009	55,487	67,095	9,286	69,459	
12/14/2010	58,094	71,249	11,877	88,840	
12/27/2011	60,562	75,787	14,481	108,318	
12/26/2012	62,956	80,160	20,061	150,056	
12/31/2013	65,243	84,585	21,430	160,296	
12/30/2014	67,247	88,899	23,850	178,398	
12/30/2015	69,882	93,290	26,260	196,425	
12/31/2016	70,865	95,440	28,568	213,689	
12/26/2017	71,395	98,345	30,006	224,445	
12/26/2018	71,989	100,458	32,696	244,566	
12/31/2019	72,909	102,693	34,634	259,062	
12/29/2020	73,835	104,890	36,806	275,309	
12/21/2021	74,355	107,047	39,713	297,053	
1/4/2022	74,366	107,131	39,722	297,121	
1/11/2022	74,372	107,173	39,722	297,121	
1/18/2022	74,378	107,209	39,767	297,457	
1/26/2022	74,390	107,262	39,816	297,824	
2/15/2022	74,406	107,385	39,874	298,258	
2/23/2022	74,414	107,433	39,894	298,407	
3/2/2022	74,418	107,470	39,945	298,789	
3/8/2022	74,429	107,513	39,998	299,185	
3/15/2022	74,434	107,553	40,021	299,357	
3/24/2022	74,441	107,607	40,116	300,068	
3/30/2022	74,446	107,644	40,148	300,307	
4/5/2022	74,451	107,644	40,168	300,457	
4/12/2022	74,457	107,717	40,194	300,651	
4/20/2022	74,469	107,769	40,230	300,920	
4/26/2022	74,475	107,805	40,259	301,137	
5/4/2022	74,482	107,857	40,308	301,504	
5/17/2022	74,492	107,931	40,423	302,364	
5/24/2022	74,498	107,976	40,440	302,491	
5/31/2022	74,504	108,015	40,451	302,573	
6/7/2022	74,513	108,025	40,609	303,755	
6/14/2022	74,519	108,025	40,763	304,907	
6/23/2022	74,527	108,242	40,796	305,154	
8/4/2022	74,570	108,284	40,809	305,154	
8/9/2022	74,574	108,315	40,809	305,154	
8/17/2022	74,584	108,365	40,809	305,154	
8/23/2022	74,588	108,397	40,809	305,154	

Table 8. Source Control Operations Data
2022 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
8/31/2022	74,594	108,445	40,809	305,154	
9/7/2022	74,602	108,492	40,809	305,251	
9/13/2022	74,606	108,523	40,809	305,251	
9/30/2022	74,613	108,576	40,809	305,251	
10/7/2022	74,628	108,672	40,809	305,251	
10/11/2022	74,630	108,695	40,809	305,251	
10/18/2022	74,639	108,734	40,809	305,251	
10/25/2022	74,646	108,786	40,816	305,258	
11/2/2022	74,652	108,829	40,866	305,308	
11/17/2022	74,665	108,914	41,131	305,573	
11/30/2022	74,676	108,989	41,218	305,660	
12/6/2022	74,680	109,028	41,273	305,715	
12/13/2022	74,693	109,067	41,320	305,762	
12/27/2022	74,704	109,153	41,512	305,954	
Total Hours	**31,694**	**59,959**			
Avg hrs./day	**5.14**	**9.72**			
Total Hours (2022)	**349**	**2,106**			
Avg hrs./day (2022)	**0.94**	**5.69**			

Data obtained from 2005 through 2021 has been summarized as annual totals for brevity.

Table 9. Soil Gas and Landfill Gas Removal Volumes
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	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	120.0	424,800	424,800	70.0	247,800	247,800	49,267	73	94.0	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	120.0	1,065,600	1,490,400	70.0	621,600	869,400	49,603	336	94.0	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	120.0	1,540,800	3,031,200	70.0	898,800	1,768,200	50,036	433	94.0	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	87.0	814,320	3,845,520	53.0	496,080	2,264,280	50,351	315	85.0	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	88.0	871,200	4,716,720	59.0	584,100	2,848,380	50,687	336	77.0	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	82.0	1,107,000	5,823,720	46.0	621,000	3,469,380	51,106	419	81.0	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	83.0	941,220	6,764,940	54.0	612,360	4,081,740	51,442	335.5	65.0	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	53.0	744,120	7,509,060	34.0	477,360	4,559,100	51,944	502.5	81.0	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	8/22/2006	44,817	417	73.0	1,826,460	9,335,520	42.0	1,050,840	5,609,940	52,439	495	81.0	2,405,700	16,100,340
	8/29/2006	44,872								52,517				
	9/5/2006	44,943								52,614				
9/14/2006	9/13/2006	45,014	197	62.0	732,840	10,068,360	40.0	472,800	6,082,740	52,710	271	87.0	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	63.0	1,171,800	11,240,160	42.0	781,200	6,863,940	53,122	412	93.0	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	12/5/2006	45,746	422	75.0	1,899,000	13,139,160	51.0	1,291,320	8,155,260	53,700	578	93.0	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				

Table 9. Soil Gas and Landfill Gas Removal Volumes
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	1/2/2007	45,982								54,016				
1/15/2007	1/9/2007	46,039	293	49.0	861,420	14,000,580	33.0	580,140	8,735,400	54,094	394	90.0	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	86.0	1,847,280	15,847,860	57.0	1,224,360	9,959,760	54,593	499	88.0	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	86.0	1,269,360	17,117,220	65.0	959,400	10,919,160	54,926	333	84.0	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	58.0	1,245,840	18,363,060	40.0	859,200	11,778,360	55,429	503	86.0	2,595,480	32,075,280
	5/8/2007	47,064								55,514				
5/17/2007	5/15/2007	47,127	126	56.0	423,360	18,786,420	38.0	287,280	12,065,640	55,597	168	86.0	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	67.0	1,258,260	20,044,680	44.0	826,320	12,891,960	55,932	335	84.0	1,688,400	34,630,560
	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	80.0	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	46.0	1,195,080	21,239,760	30.0	779,400	13,671,360	56,606	252	87.0	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	42.0	637,560	21,877,320	29.0	440,220	14,111,580	56,944	338	86.0	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	44.0	1,161,600	23,038,920	30.0	792,000	14,903,580	57,541	597	94.0	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	45.0	664,200	23,703,120	36.0	531,360	15,434,940	57,879	338	92.0	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	85.0	933,300	24,636,420	71.0	779,580	16,214,520	58,124	245	91.0	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	47.0	1,212,600	25,849,020	43.0	1,109,400	17,323,920	58,726	182	91.0	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	59.0	821,280	26,670,300	35.0	487,200	17,811,120	59,041	251	91.0	1,370,460	48,650,400

Table 9. Soil Gas and Landfill Gas Removal Volumes
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	3/4/2008	49,720								59,126				
	3/11/2008	49,781								59,208				
3/19/2008	3/18/2008	49,844	187	39.0	437,580	27,107,880	36.0	403,920	18,215,040	59,292	251	81.0	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	121.0	2,279,640	29,387,520	102.0	1,921,680	20,136,720	59,712	251	162.0	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	51.0	954,720	30,342,240	43.0	804,960	20,941,680	60,133	254	81.0	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	46.0	681,720	31,023,960	31.0	459,420	21,401,100	60,809	256	83.0	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	48.0	895,680	31,919,640	26.0	485,160	21,886,260	61,232	264	85.0	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	49.0	679,140	32,598,780	28.0	388,080	22,274,340	61,553	252	90.0	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	37.0	697,080	33,295,860	29.0	546,360	22,820,700	61,973	240	87.0	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	36.0	522,720	33,818,580	25.0	363,000	23,183,700	62,309	250	91.0	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	30.0	432,000	34,250,580	22.0	316,800	23,500,500	62,730	252	91.0	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				
1/28/2009	1/27/2009	52,523	271	31.0	504,060	34,754,640	24.0	390,240	23,890,740	63,068	420	86.0	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	37.0	546,120	35,300,760	32.0	472,320	24,363,060	63,402	334	86.0	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	38.0	560,880	35,861,640	30.0	442,800	24,805,860	63,737	335	87.0	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	37.0	461,760	36,323,400	24.0	299,520	25,105,380	64,074	337	86.0	1,738,920	68,898,480

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	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	36.0	596,160	36,919,560	24.0	397,440	25,502,820	64,325	251	84.0	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	38.0	770,640	37,690,200	22.0	446,160	25,948,980	64,854	529	84.0	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	41.0	457,560	38,147,760	26.0	290,160	26,239,140	65,107	253	83.0	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	35.0	743,400	38,891,160	22.0	467,280	26,706,420	65,582	475	82.0	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	37.0	559,440	39,450,600	31.0	468,720	27,175,140	65,918	336	67.0	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	38.0	1,283,640	40,734,240	22.0	743,160	27,918,300	66,673	755	67.0	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	38.0	811,680	41,545,920	23.0	491,280	28,409,580	67,095	504	82.0	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	37.0	803,640	42,349,560	23.0	499,560	28,909,140	67,601	506	49.0	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	39.0	779,220	43,128,780	3.0	59,940	28,969,080	68,101	500	53.0	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	6.0	249,120	43,377,900	1.0	41,520	29,010,600	68,776	675	62.0	2,511,000	88,880,760
	5/25/2010	56,914								68,826				
	6/1/2010	56,969								68,909				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	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	36.0	609,120	43,987,020	17.0	287,640	29,298,240	69,246	470	21.0	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	39.0	594,360	44,581,380	24.0	365,760	29,664,000	69,761	515	28.0	865,200	90,338,160
	8/17/2010	57,441								69,835				
	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	35.0	489,300	45,070,680	26.0	363,480	30,027,480	70,253	492	72.0	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	36.0	598,320	45,669,000	34.0	565,080	30,592,560	70,845	592	69.0	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	36.0	375,840	46,044,840	41.0	428,040	31,020,600	71,249	404	81.0	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	65.0	1,138,800	47,183,640	47.4	830,623	31,851,223	71,920	671	102.0	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	55.0	458,700	47,642,340	42.9	357,786	32,209,009	72,259	339	92.0	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	56.0	1,108,800	48,751,140	50.7	1,004,573	33,213,582	72,926	667	86.0	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	57.0	1,480,860	50,232,000	53.1	1,380,162	34,593,744	74,019	1093	84.0	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				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	9/5/2011	59,528								74,436				
	9/13/2011	59,571								74,520				
9/20/2011	9/22/2011	59,680	392	67.0	1,575,840	51,807,840	42.3	995,931	35,589,674	74,631	612	99.0	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	54.0	1,448,280	53,256,120	32.9	883,451	36,473,125	75,108	477	62.0	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	54.0	1,409,400	54,665,520	39.7	1,037,318	37,510,444	75,787	679	78.0	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	55.0	861,300	55,526,820	37.0	579,420	38,089,864	76,286	499	51.0	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	51.0	893,520	56,420,340	42.0	735,840	38,825,704	76,873	587	51.0	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	46.0	894,240	57,314,580	29.0	563,760	39,389,464	77,376	503	51.0	991,440	112,028,100
	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	81.0	2,065,500	59,380,080	75.0	1,912,500	41,301,964	77,964	588	37.0	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	74.0	1,300,920	60,681,000	65.0	1,142,700	42,444,664	78,553	589	52.0	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	40.0	600,000	61,281,000	35.0	525,000	42,969,664	79,056	503	54.0	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	45.0	799,200	62,080,200	43.0	763,680	43,733,344	79,649	593	69.0	1,225,440	115,921,200

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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	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	84.0	1,275,120	63,355,320	71.0	1,077,780	44,811,124	80,160	346	67.0	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	21.0	241,920	63,597,240	13.4	154,829	44,965,952	80,564	404	14.0	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	26.0	507,000	64,104,240	15.1	294,060	45,260,012	81,228	664	17.0	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	24.0	277,920	64,382,160	14.6	168,975	45,428,988	81,647	419	14.0	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	27.0	447,120	64,829,280	19.4	321,926	45,750,914	82,233	586	17.0	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	15.0	293,400	65,122,680	9.2	179,561	45,930,475	82,823	590	15.0	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	20.0	390,000	65,512,680	15.9	310,440	46,240,915	83,409	586	15.0	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	34.0	461,040	65,973,720	18.8	255,416	46,496,331	83,831	422	9.0	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	39.0	992,160	66,965,880	23.2	591,327	47,087,658	84,585	754	12.0	305,280	118,887,900
	1/8/2014	65,289								84,672				
	1/14/2014	65,328								84,750				
	1/21/2014	65,368								84,833				
	1/28/2014	35,048								84,916				

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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	2/4/2014	65,449								85,000				
2/13/2014	2/11/2014	65,478	235	27.0	380,700	67,346,580	16.1	226,897	47,314,556	85,084	499	11.0	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	34.0	709,920	68,056,500	20.3	423,112	47,737,668	86,049	965	0.0	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	14.0	189,840	68,246,340	8.3	113,145	47,850,813	86,556	507	0.0	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	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	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	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	41.0	735,540	70,218,582	30.3	542,829	49,130,716	88,728	578	0.0	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	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				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	4/21/2015	67,936								90,239				
4/29/2015	4/28/2015	67,975	217	44.0	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	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				
	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	0	76,882,758	0.0	0	52,774,979	93,680	670	0.0	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	0	76,882,758	0.0	0	52,774,979	94,262	582	0.0	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	50.0	1,035,000	77,917,758	22.2	459,540	53,234,519	94,852	590	18.0	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				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	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	7/19/2016	70,761	104	51.0	318,240	78,235,998	46.9	292,781	53,527,300	95,080	228	0.0	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	50.0	132,000	78,367,998	50.7	133,848	53,661,148	95,168	88	33.0	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	50.0	129,000	78,496,998	48.1	124,098	53,785,246	95,379	211	29.0	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	32.0	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				
	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				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	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	21.0	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				
	1/2/2018	71,399								98,389				
	1/9/2018	71,409								98,429				
	1/16/2018	71,421								98,475				
	1/23/2018	71,431								98,516				
	1/30/2018	71,441								98,558				
2/8/2018	2/6/2018	71,450	74	39.0	173,349	79,785,747	42.2	187,564	55,051,930	98,598	336	23.5	474,414	127,022,928
	2/13/2018	71,468								98,647				
	2/20/2018	71,474								98,686				
	2/27/2018	71,482								98,731				
	3/6/2018	71,494								98,773				
	3/13/2018	71,502								98,809				
	3/20/2018	71,510								98,851				
3/28/2018	3/27/2018	71,518	68	41.3	168,470	79,954,217	40.8	166,448	55,218,378	98,893	295	25.4	449,456	127,472,384
	4/3/2018	71,521								98,903				
	4/10/2018	71,521								98,903				
	4/17/2018	71,527								98,934				
	4/24/2018	71,539								98,976				
	5/1/2018	71,551								99,013				
	5/8/2018	71,561								99,057				
5/16/2018	5/15/2018	71,569	51	41.2	126,218	80,080,435	46.7	142,879	55,361,257	99,096	203	30.2	367,452	127,839,836
	5/22/2018	71,577								99,142				
	5/29/2018	71,577								99,186				
	6/5/2018	71,587								99,229				
	6/12/2018	71,597								99,265				
	6/19/2018	71,607								99,313				
	6/26/2018	71,619								99,355				
7/5/2018	7/3/2018	71,631	62	42.9	159,686	80,240,121	46.8	174,058	55,535,315	99,393	297	29.8	531,803	128,371,639
	7/10/2018	71,646								99,393				
	7/17/2018	71,658								99,438				
	7/24/2018	71,670								99,483				
	7/31/2018	71,678								99,567				
	8/7/2018	71,688								99,603				
8/20/2018	8/14/2018	71,696	65	40.9	159,320	80,399,441	42.2	164,737	55,700,051	99,645	252	30.0	453,217	128,824,856
	8/21/2018	71,712								99,696				
	8/28/2018	71,722								99,736				
	9/4/2018	71,728								99,776				
9/17/2018	9/11/2018	71,738	42	48.5	122,157	80,521,598	52.2	131,441	55,831,492	99,816	171	30.2	309,560	129,134,416
	9/18/2018	71,750								99,865				

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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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	9/26/2018	71,768								99,907				
	10/2/2018	71,776								99,943				
	10/9/2019	71,794								99,991				
	10/16/2018	71,812								100,031				
	10/23/2018	71,830								100,075				
	10/30/2018	71,848								100,116				
11/7/2018	11/6/2018	71,863	125	41.3	309,813	80,831,411	42.6	319,728	56,151,220	100,159	343	33.1	682,018	129,816,434
	11/13/2018	71,882								100,203				
	11/20/2018	71,899								100,242				
	11/27/2018	71,915								100,282				
12/10/2018	12/4/2018	71,933	70	43.9	184,402	81,015,814	43.6	183,296	56,334,516	100,328	169	37.7	382,242	130,198,676
	12/11/2018	71,949								100,366				
	12/18/2018	71,967								100,409				
	12/26/2018	71,989								100,458				
	1/2/2019	72,002								100,496				
	1/8/2019	72,017								100,533				
	1/15/2019	72,035								100,578				
	1/22/2019	72,053								100,618				
	1/29/2019	72,071								100,662				
	2/5/2019	72,083								100,702				
2/11/2019	2/12/2019	72,101	168	44.0	443,520	81,459,334	42.9	431,988	56,766,504	100,746	418	43.6	1,092,439	131,291,115
	2/19/2019	72,113								100,791				
	2/26/2019	72,131								100,828				
	3/5/2019	72,148								100,872				
	3/12/2019	72,164								100,911				
3/21/2019	3/19/2019	72,182	81	43.1	209,390	81,668,723	38.6	187,613	56,954,117	100,953	207	42.7	530,018	131,821,133
	3/26/2019	72,198								100,998				
	4/2/2019	72,214								101,038				
	4/9/2019	72,228								101,080				
	4/16/2019	72,246								101,122				
	4/23/2019	42,264								101,164				
5/1/2019	4/30/2019	72,280	98	43.4	255,330	81,924,053	39.4	231,839	57,185,957	101,208	255	61.6	942,850	132,763,983
	5/7/2019	72,299								101,253				
	5/14/2019	72,317								101,296				
	5/21/2019	72,331								101,335				
	5/28/2019	72,349								101,382				
	6/4/2019	72,367								101,419				
	6/11/2019	72,385								101,463				
6/20/2019	6/18/2019	72,403	123	41.6	307,274	82,231,327	37.7	278,390	57,464,347	101,503	295	64.8	1,146,397	133,910,380
	6/25/2019	72,424								101,549				
	7/4/2019	72,446								101,603				
	7/9/2019	72,458								101,633				
	7/16/2019	72,476								101,677				
7/24/2019	7/24/2019	72,501	98	41.9	246,415	82,477,742	38.8	228,181	57,692,527	101,730	227	68.8	937,365	134,847,745
	7/30/2019	72,514								101,761				
	8/6/2019	72,532								101,805				
	8/13/2019	72,550								101,845				
	8/20/2019	72,585								101,892				
	8/27/2019	72,501								101,933				
	9/3/2019	72,603								101,975				
	9/10/2019	72,621								102,013				
	9/17/2019	72,639								102,061				
9/26/2019	9/24/2019	72,657	156	42.1	393,594	82,871,337	38.5	360,532	58,053,060	102,099	369	69.0	1,528,557	136,376,302
	10/1/2019	72,680								102,144				
	10/8/2019	72,698								102,187				
	10/15/2019	72,716								102,223				
	10/22/2019	72,732								102,268				
10/28/2019	10/29/2019	72,752	95	42.3	241,331	83,112,668	37.8	215,268	58,268,328	102,309	210	66.1	832,610	137,208,912
	11/5/2019	72,770								102,351				
	11/12/2019	72,788								102,396				
	11/19/2019	72,805								102,437				
	11/26/2019	72,823								102,477				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	12/3/2019	72,841								102,519				
	12/10/2019	72,859								102,561				
12/17/2019	12/17/2019	72,877	125	42.4	317,676	83,430,344	36.3	271,931	58,540,259	102,603	294	65.9	1,161,964	138,370,875
	12/26/2019	72,901								102,661				
	12/31/2019	72,909								102,693				
	1/7/2020	72,927								102,731				
	1/14/2020	72,945								102,777				
	1/21/2020	72,960								102,817				
	1/28/2020	72,978								102,859				
2/4/2020	2/4/2020	72,996	119	53.5	381,990	83,812,334	35.7	255,169	58,795,428	102,899	296	43.6	774,336	139,145,211
	2/11/2020	73,018								102,947				
	2/18/2020	73,036								102,990				
	2/25/2020	73,054								103,028				
	3/3/2020	73,072								103,071				
	3/10/2020	73,089								103,111				
	3/17/2020	73,107								103,153				
3/24/2020	3/24/2020	73,125	129	42.7	330,498	84,142,832	36.7	284,228	59,079,656	103,195	296	49.7	882,672	140,027,883
	3/31/2020	73,145								103,243				
	4/7/2020	73,163								103,285				
	4/14/2020	73,181								103,325				
	4/21/2020	73,199								103,371				
	4/28/2020	73,215								103,407				
	5/5/2020	73,233								103,451				
5/12/2020	5/12/2020	73,252	127	41.6	316,992	84,459,824	34.0	259,299	59,338,956	103,494	299	49	879,060	140,906,943
	5/19/2020	73,275								103,538				
	5/26/2020	73,285								103,580				
	6/2/2020	73,301								103,622				
	6/9/2020	73,319								103,668				
	6/16/2020	73,331								103,711				
	6/23/2020	73,345								103,748				
6/26/2020	6/30/2020	73,364	112	42.8	287,616	84,747,440	34.8	234,119	59,573,075	103,792	298	57	1,019,160	141,926,103
	7/7/2020	73,381								103,835				
	7/14/2020	73,399								103,876				
	7/21/2020	73,417								103,918				
	7/28/2020	73,435								103,965				
	8/3/2020	73,453								104,005				
	8/11/2020	73,471								104,044				
8/12/2020	8/18/2020	73,494	130	42.8	333,840	85,081,280	34.0	265,069	59,838,144	104,090	298	57.2	1,022,736	142,948,839
	8/25/2020	73,510								104,134				
	9/1/2020	73,528								104,176				
9/8/2020	9/8/2020	73,541	47	42.3	119,286	85,200,566	30.5	85,886	59,924,030	104,221	131	53.9	423,654	143,372,493
	9/17/2020	73,566								104,272				
	9/22/2020	73,578								104,301				
	9/29/2020	73,591								104,346				
	10/6/2020	73,609								104,391				
	10/13/2020	73,632								104,438				
	10/20/2020	73,645								104,475				
	10/27/2020	73,663								104,517				
11/5/2020	11/3/2020	73,680	139	43.4	361,956	85,562,522	36.0	300,423	60,224,453	104,553	332	55.1	1,097,592	144,470,085
	11/10/2020	73,707								104,602				
	11/17/2020	73,723								104,641				
	11/24/2020	73,741								104,680				
	12/1/2020	73,758								104,720				
12/8/2020	12/8/2020	73,777	97	43.2	251,424	85,813,946	32.7	190,579	60,415,033	104,762	209	56.6	709,764	145,179,849
	12/15/2020	73,802								104,805				
	12/22/2020	73,817								104,847				
	12/29/2020	73,835								104,890				
	1/5/2021	73,853								104,932				
	1/12/2021	73,871								104,978				
	1/19/2021	73,883								105,015				
	1/26/2021	73,901								105,055				
	2/2/2021	73,919								105,099				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	2/9/2021	73,939								105,137				
	2/16/2021	73,957								105,185				
	2/22/2021	73,975								105,224				
	3/2/2021	73,993								105,266				
	3/9/2021	74,011								105,305				
3/16/2021	3/16/2021	74,029	252	43.6	659,928	86,473,875	31.4	475,148	60,890,181	105,347	585	62.4	2,189,987	147,369,837
	3/23/2021	74,055								105,392				
	3/30/2021	74,073								105,440				
	4/6/2021	74,091								105,480				
4/14/2021	4/13/2021	74,109	80	43.1	206,696	86,680,571	31.1	149,235	61,039,416	105,522	175	61.4	644,256	148,014,093
	4/20/2021	74,120								105,568				
	4/27/2021	74,126								105,610				
	5/4/2021	74,132								105,652				
	5/11/2021	74,138								105,690				
	5/18/2021	74,146								105,748				
5/26/2021	5/25/2021	74,150	41	42.8	105,285	86,785,855	35.1	86,333	61,125,749	105,779	257	61.1	942,759	148,956,852
	6/1/2021	74,161								105,820				
	6/8/2021	74,167								105,864				
	6/15/2021	74,172								105,903				
	6/22/2021	74,178								105,948				
	6/29/2021	74,184								105,990				
7/6/2021	7/6/2021	74,194	44	42.6	112,521	86,898,376	36.5	96,318	61,222,067	106,032	253	60.8	922,492	149,879,344
	7/13/2021	74,203								106,077				
	7/20/2021	74,209								106,120				
	7/28/2021	74,214								106,165				
	8/3/2021	74,220								106,206				
	8/10/2021	74,226								106,248				
	8/17/2021	74,232								106,290				
	8/31/2021	74,244								106,369				
	9/7/2021	74,250								106,415				
	9/14/2021	74,262								106,461				
	9/22/2021	74,268								106,504				
	9/29/2021	74,274								106,542				
	10/5/2021	74,280								106,587				
	10/13/2021	74,286								106,630				
	10/20/2021	74,293								106,676				
	10/26/2021	74,298								106,712				
11/2/2021	11/2/2021	74,303	109	43.2	282,443	87,180,820	40.9	267,756	61,489,823	106,750	718	61.7	2,657,218	152,536,561
	11/9/2021	74,317								106,800				
	11/16/2021	74,322								106,835				
	11/23/2021	74,328								106,877				
12/1/2021	11/30/2021	74,334	31	44.2	82,217	87,263,036	42.7	79,421	61,569,245	106,919	169	61.3	622,080	153,158,641
	12/7/2021	74,344								106,963				
	12/24/2021	74,349								107,005				
	12/21/2021	74,355								107,047				
	1/4/2022	74,366								107,131				
	1/11/2022	74,372								107,173				
1/18/2022	1/18/2022	74,378	29	44.6	77,653	87,340,689	44.9	78,118	61,647,363	107,209	290	75.7	1,317,180	154,475,821
	1/26/2022	74,390								107,262				
	2/15/2022	74,406								107,385				
	2/23/2022	74,414								107,433				
3/2/2022	3/2/2022	74,418	40	44.3	106,234	87,446,923	42.5	101,985	61,749,348	107,470	261	61.5	963,642	155,439,464
	3/8/2022	74,429								107,513				
	3/15/2022	74,434								107,553				
	3/24/2022	74,441								107,607				
	3/30/2022	74,446								107,644				
	4/5/2022	74,451								107,644				
	4/12/2022	74,457								107,717				
4/19/2022	4/20/2022	74,469	51	63.1	193,222	87,640,145	58.9	180,083	61,929,431	107,769	299	57.1	1,024,920	156,464,383
	4/26/2022	74,475								107,805				
	5/4/2022	74,482								107,857				
	5/17/2022	74,492								107,931				

Table 9. Soil Gas and Landfill Gas Removal Volumes
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Date Flow Recorded	Date Blower Hours Recorded	Actual Elapsed Blower Hours	Monthly Blower Hours	Flow (scfm)	Monthy 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	Monthly Blower Hours	Flow (scfm)	Monthly Volume (ft^3)	Accum. Volume (ft^3)
	5/24/2022	74,498								107,976				
6/1/2022	5/31/2022	74,504	35	44.0	92,354	87,732,500	40.7	85,520	62,014,951	108,015	246	61.8	912,165	157,376,548
	6/7/2022	74,513								108,025				
	6/14/2022	74,519								108,025				
7/7/2022	6/23/2022	74,527	23	43.3	59,820	87,792,320	31.3	43,190	62,058,141	108,242	227	61.1	831,973	158,208,521
	8/4/2022	74,570								108,752				
	8/9/2022	74,574								108,783				
8/17/2022	8/17/2022	74,584	57	43.6	149,217	87,941,537	38.1	130,416	62,188,557	108,833	591	61.3	2,172,090	160,380,611
	8/23/2022	74,588								108,865				
	8/31/2022	74,594								108,913				
	9/7/2022	74,602								108,960				
	9/13/2022	74,606								108,991				
	9/30/2022	74,613								109,044				
	10/7/2022	74,628								109,140				
	10/11/2022	74,630								109,163				
10/17/2022	10/18/2022	74,639	55	43.9	144,993	88,086,530	39.5	130,204	62,318,761	109,202	369	61.8	1,368,577	161,749,187
	10/25/2022	74,646								109,254				
	11/2/2022	74,652								109,297				
	11/17/2022	74,665								109,382				
	11/30/2022	74,676								109,457				
12/8/2022	12/6/2022	74,680	41	44.7	109,898	88,196,428	37.3	91,655	62,410,415	109,496	294	62.9	1,109,012	162,858,199
	12/13/2022	74,693								109,535				
	12/27/2022	74,704								109,621				
Total Hours		**31,694**						**Total Hours**		**60,427**				
Avg hrs./day		**5.05**						**Avg hrs./day**		**9.63**				
Total Days Operational		**6,272**												

Table 10. LFG and SVE System Flow Rates
2022 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	94.0	29.3	21.0	0.1	120.0	70.3
3/1/2006	4.0	18.5	1.3	85.0	30.5	19.7	0.6	87.0	53.1
4/3/2006	3.2	18.0	1.7	77.0	33.8	20.6	1.1	88.0	59.5
5/1/2006	2.6	15.2	4.3	81.0	27.8	19.1	1.1	82.0	45.6
6/5/2006	2.9	16.7	2.4	65.0	32.8	20.5	0.3	83.0	54.4
7/13/2006	2.9	16.3	2.8	81.0	32.1	21.1	0.5	53.0	34.0
8/18/2006	2.7	15.8	3.0	81.0	29.1	20.8	0.5	73.0	42.5
9/14/2006	2.8	15.9	3.1	87.0	32.2	21.8	0.4	62.0	39.9
10/19/2006	2.8	16.0	3.3	93.0	33.3	21.3	0.4	63.0	42.0
12/4/2006	3.0	16.1	3.3	93.0	34.0	21.0	0.7	75.0	51.0
1/15/2007	2.8	16.0	3.0	90.0	33.6	20.0	0.6	49.0	32.9
2/23/2007	1.8	10.0	10.0	88.0	33.2	19.3	1.0	86.0	57.1
3/23/2007	3.2	15.6	3.4	84.0	37.9	25.0	0.0	86.0	65.2
5/1/2007	2.8	15.3	3.5	86.0	34.3	20.1	0.1	58.0	39.8
5/17/2007	2.9	14.9	3.6	86.0	33.7	20.3	0.2	56.0	37.7
6/14/2007	2.9	14.9	3.9	84.0	32.8	21.6	0.4	67.0	44.0
7/19/2007	2.9	14.5	3.9	80.0	36.5	22.2	0.5	N/M	
8/8/2007	2.9	14.4	4.5	87.0	32.6	20.9	2.7	46.0	30.0
9/7/2007	3.0	14.8	4.1	86.0	34.3	21.3	2.6	42.0	28.8
10/26/2007	3.2	15.0	4.0	94.0	34.5	19.5	4.0	44.0	30.4
11/26/2007	3.2	15.6	3.8	92.0	40.1	19.1	3.6	45.0	36.1
12/12/2007	3.3	15.3	3.6	91.0	41.8	20.0	2.5	85.0	71.1
1/30/2008	3.0	14.7	3.9	91.0	45.4	20.3	0.3	47.0	42.7
2/27/2008	2.9	14.7	4.2	91.0	29.8	18.4	0.9	59.0	35.2
3/18/2008	3.4	12.2	4.5	87.0	32.3	17.2	1.0	43.0	27.8
3/19/2008	3.5	14.5	3.9	81.0	46.5	19.4	0.0	39.0	36.3
8/26/2008	2.4	11.9	6.5	86.0	27.5	20.3	0.7	45.0	24.8
9/24/2008	2.7	12.6	6.2	90.0	29.0	21.3	0.3	45.0	26.1
10/29/2008	2.5	12.4	6.6	87.0	39.6	20.5	0.4	35.0	27.7
11/25/2008	2.8	12.8	6.2	88.0	34.3	19.6	0.2	34.0	23.3
12/30/2008	2.8	13.0	6.0	89.0	36.9	17.7	0.0	24.0	17.7
1/28/2009	2.4	12.8	11.4	86.0	39.0	19.5	0.0	31.0	24.2
2/24/2009	2.7	14.1	4.5	86.0	42.7	19.4	0.0	37.0	31.6
3/23/2009	2.7	14.4	4.4	87.0	39.8	19.6	0.0	38.0	30.2
4/20/2009	2.5	12.4	5.4	86.0	32.0	17.6	1.3	37.0	23.7
5/18/2009	2.0	12.7	5.8	84.0	33.9	18.3	0.6	36.0	24.4
6/25/2009	2.2	13.3	5.6	84.0	29.4	22.0	0.9	38.0	22.3
7/16/2009	2.5	14.3	4.4	83.0	31.7	21.5	0.9	41.0	26.0
8/26/2009	2.0	12.4	5.4	82.0	32.0	21.0	0.2	35.0	22.4
9/22/2009	3.8	15.2	0.5	67.0	42.0	21.5	0.0	37.0	31.1
11/23/2009	3.4	14.7	2.5	67.0	29.4	18.4	0.9	38.0	22.3
12/28/2009	8.9	14.1	3.7	82.0	30.3	17.5	1.8	38.0	23.0
2/10/2010	8.9	14.1	4.2	49.0	30.9	18.2	0.5	37.0	22.9
3/26/2010	0.0	8.1	3.8	53.0	4.0	8.9	1.6	39.0	3.1
5/21/2010	16.2	17.4	0.2	62.0	4.6	3.5	15.4	6.0	0.6
6/28/2010	12.8	17.7	0.9	21.0	24.0	18.7	0.6	36.0	17.3

Table 10. LFG and SVE System Flow Rates
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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)
8/11/2010	14.1	16.1	2.2	28.0	30.3	19.2	0.4	39.0	23.6
9/23/2010	4.5	22.7	3.0	72.0	36.8	35.6	0.0	35.0	25.8
11/18/2010	2.1	16.0	4.6	69.0	46.6	24.2	0.0	36.0	33.6
12/22/2010	2.0	12.8	6.1	81.0	56.7	24.0	0.5	36.0	40.8
2/9/2011	1.5	13.5	7.6	102.0	43.1	16.8	0.7	55.0	47.4
3/10/2011	1.8	11.7	7.9	92.0	39.0	16.8	2.5	55.0	42.9
5/4/2011	3.6	13.5	5.8	86.0	45.3	19.2	1.3	56.0	50.7
8/4/2011	5.2	14.6	4.2	84.0	46.6	24.5	0.1	57.0	53.1
9/20/2011	4.3	12.5	6.3	99.0	31.6	17.1	5.2	67.0	42.3
11/3/2011	2.3	14.4	4.5	62.0	30.5	18.4	0.0	54.0	32.9
12/29/2011	5.6	13.6	4.0	78.0	36.8	18.4	0.7	54.0	39.7
2/7/2012	5.4	12.3	3.4	51.0	34.1	17.0	0.5	55.0	37.5
3/28/2012	35.7	14.9	1.2	51.0	0.3	4.0	20.4	51.0	0.3
5/9/2012	30.4	17.0	0.0	51.0	3.2	13.6	2.9	46.0	2.9
6/27/2012	1.0	14.4	4.0	37.0	30.3	18.5	0.1	81.0	49.1
8/9/2012	4.1	14.1	4.2	52.0	31.7	19.4	1.4	74.0	46.9
9/26/2012	2.9	9.2	10.1	54.0	31.9	18.3	4.2	40.0	25.5
11/8/2012	1.5	7.8	11.9	69.0	36.2	20.8	0.9	45.0	32.6
12/20/2012	2.8	11.9	7.9	67.0	37.8	20.1	1.0	84.0	63.5
1/30/2013	2.9	11.9	6.8	14.0	32.0	17.4	1.7	21.0	13.4
3/21/2013	2.5	12.3	7.3	17.0	29.0	18.3	1.2	26.0	15.1
4/30/2013	2.9	12.1	7.1	14.0	30.4	17.6	1.4	24.0	14.6
6/18/2013	2.7	11.5	6.9	17.0	36.0	19.3	0.9	27.0	19.4
8/1/2013	2.4	10.5	8.7	15.0	30.6	18.2	3.6	15.0	9.2
9/19/2013	1.9	8.2	11.6	15.0	39.8	22.3	0.3	20.0	15.9
10/29/2013	1.9	8.0	11.4	9.0	27.7	15.7	5.3	34.0	18.8
12/17/2013	2.3	10.1	9.5	12.0	29.8	16.0	4.0	39.0	23.2
2/13/2014	19.8	14.4	5.3	16.0	29.3	16.1	1.0	32.0	18.8
5/7/2014	N/M	N/M	N/M	N/M	33.9	17.7	1.3	54.0	36.6
6/18/2014	N/M	N/M	N/M	N/M	37.8	19.2	0.0	46.0	34.8
8/5/2014	N/M	N/M	N/M	N/M	32.5	19.3	1.7	41.4	26.9
9/16/2014	N/M	N/M	N/M	N/M	36.3	20.4	1.5	43.8	31.8
10/29/2014	N/M	N/M	N/M	N/M	33.4	19.2	1.7	41.3	27.6
12/16/2014	N/M	N/M	N/M	N/M	36.9	18.7	1.1	41.0	30.3
2/3/2015	N/M	N/M	N/M	N/M	30.2	17.2	1.6	41.2	24.9
3/18/2015	0.1	0.5	21.1	21.4	27.1	16.5	1.6	45.5	24.7
4/29/2015	9.4	10.1	8.5	13.4	27.4	17.1	0.9	44.0	24.1
6/16/2015	0.0	0.3	20.2	17.6	28.6	18.7	1.3	41.9	24.0
8/4/2015	0.1	0.6	19.8	0.0	23.3	16.9	3.1	43.9	20.5
9/15/2015	4.1	3.7	17.3	16.7	25.2	15.2	6.8	42.3	21.3
10/28/2015	0.0	0.5	20.3	19.1	29.2	19.2	0.5	38.7	22.6
12/10/2015	0.0	0.2	21.0	5.3	31.6	15.9	3.5	40.4	25.5
2/3/2016	0.0	0.6	20.5	0.0	24.6	14.1	3.8	0.0	0.0
3/23/2016	11.1	15.7	1.3	0.0	26.9	16.8	0.7	0.0	0.0
5/12/2016	24.5	15.9	1.4	18.0	22.2	13.5	2.9	50.0	22.2
7/25/2016	21.1	16.3	0.1	0.0	46.0	21.5	0.0	51.0	46.9

Table 10. LFG and SVE System Flow Rates
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

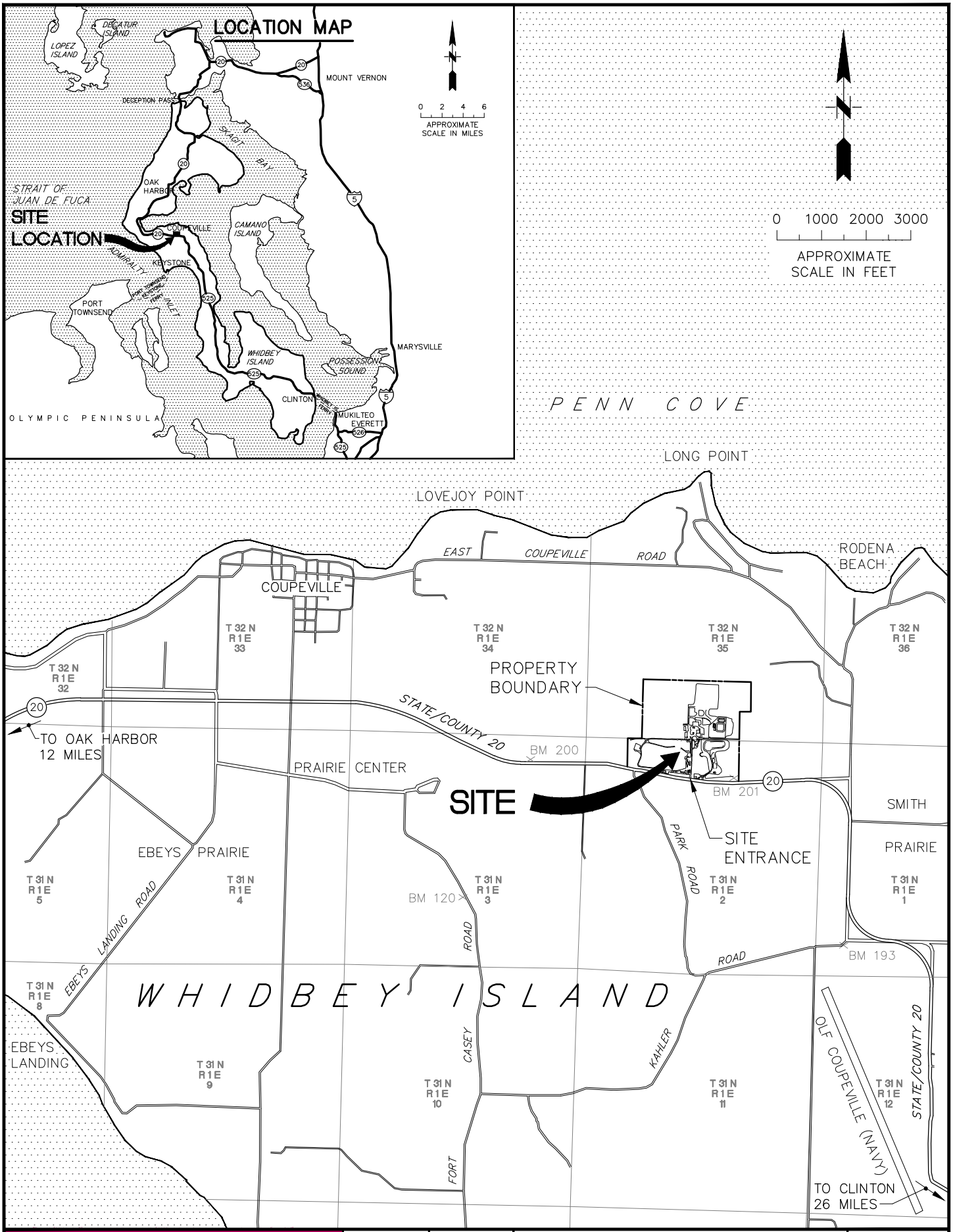
Date	SVE System				LFG System				
	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Methane (% vol.)	Carbon Dioxide (% vol.)	Oxygen (% vol.)	Flow (scfm)	Flow @ 50% CH_4 (scfm)
11/18/2016	1.4	15.0	0.9	33.0	50.7	21.2	0.2	50.0	50.7
12/20/2016	0.8	12.3	4.3	29.0	48.1	19.9	0.0	50.0	48.1
2/1/2017	13.8	12.4	1.7	19.6	45.4	17.8	2.2	32.0	29.1
5/4/2017	2.8	13.7	0.9	20.1	47.6	17.6	0.3	38.8	36.9
6/14/2017	3.6	12.5	3.8	20.4	48.3	18.1	1.1	39.3	38.0
8/2/2017	4.3	12.5	2.6	21.0	49.2	18.7	1.6	35.7	35.1
9/27/2017	0.9	3.6	15.8	18.9	49.4	20.3	1.9	30.3	29.9
11/8/2017	0.0	1.8	20.1	21.2	48.6	21.3	0.1	36.2	35.2
12/15/2017	2.7	14.9	1.2	21.6	49.5	20.7	0.1	31.1	30.8
2/8/2018	3.3	14.6	1.1	23.5	54.1	18.1	0.0	39.0	42.2
3/28/2018	2.8	14.1	2.9	25.4	49.4	18.4	0.0	41.3	40.8
5/16/2018	0.6	6.8	10.7	30.2	56.6	17.6	0.3	41.2	46.7
7/5/2018	3.3	14.2	1.1	29.8	54.5	19.8	0.1	42.9	46.8
8/20/2018	4.1	13.3	2.4	30.0	51.7	21.6	0.6	40.9	42.2
9/17/2018	2.5	11.8	3.2	30.2	53.8	21.1	0.8	48.5	52.2
11/7/2018	3.3	14.1	1.9	33.1	51.6	19.9	0.5	41.3	42.6
12/10/2018	1.7	12.3	3.3	37.7	49.7	18.0	0.0	43.9	43.6
2/11/2019	4.0	15.0	0.9	43.6	48.7	17.5	0.0	44.0	42.9
3/21/2019	3.6	14.3	1.0	42.7	44.8	16.0	0.0	43.1	38.6
5/1/2019	4.1	14.2	1.8	61.6	45.4	17.7	0.6	43.4	39.4
6/20/2019	3.8	13.9	2.1	64.8	45.3	18.7	0.5	41.6	37.7
7/24/2019	3.2	13.6	2.6	68.8	46.3	19.9	0.2	41.9	38.8
9/26/2019	5.2	13.1	2.4	69.0	45.8	19.2	1.5	42.1	38.5
10/28/2019	3.1	13.3	3.8	66.1	44.6	18.8	1.6	42.3	37.8
12/17/2019	5.0	17.6	0.8	65.9	42.8	19.8	1.2	42.4	36.3
2/4/2020	2.9	14.5	2.5	43.6	33.4	15.5	2.6	53.5	35.7
3/24/2020	7.0	12.6	2.9	49.7	43.0	16.7	1.0	42.7	36.7
5/12/2020	4.5	14.4	2.2	49.0	40.9	17.8	0.0	41.6	34.0
6/26/2020	5.3	12.1	2.7	57.0	40.7	17.5	0.7	42.8	34.8
8/12/2020	4.7	12.9	3.0	57.2	39.7	18.4	0.9	42.8	34.0
9/8/2020	4.0	9.8	6.1	53.9	36.0	17.0	3.0	42.3	30.5
11/5/2020	3.9	13.9	2.4	55.1	41.5	19.9	0.0	43.4	36.0
12/8/2020	3.2	15.9	0.8	56.6	37.9	18.3	0.1	43.2	32.7
3/16/2021	2.2	13.2	3.8	62.4	36.0	16.0	0.2	43.6	31.4
4/14/2021	1.9	12.7	4.6	61.4	36.1	16.2	0.3	43.1	31.1
5/26/2021	2.4	13.3	4.0	61.1	41.0	17.6	0.5	42.8	35.1
7/6/2021	4.6	13.4	2.8	60.8	42.8	18.6	0.3	42.6	36.5
11/2/2021	3.3	14.1	3.6	61.7	47.4	19.6	0.6	43.2	40.9
12/1/2021	4.1	15.3	0.9	61.3	48.3	18.0	0.6	44.2	42.7
1/18/2022	6.8	16.4	1.1	75.7	50.3	17.6	0.8	44.6	44.9
3/2/2022	4.5	15.5	1.7	61.5	48.0	16.5	0.4	44.3	42.5
4/19/2022	4.3	15.2	1.0	57.1	46.6	16.7	0.3	63.1	58.9
6/1/2022	0.6	1.9	8.0	61.8	46.3	15.3	0.5	44.0	40.7
7/7/2022	4.4	13.8	1.8	61.1	36.1	18.1	0.5	43.3	31.3
8/17/2022	4.0	14.2	1.4	61.3	43.7	19.8	0.2	43.6	38.1
10/17/2022	3.4	14.7	0.7	61.8	44.9	19.9	0.0	43.9	39.5

Table 10. LFG and SVE System Flow Rates
2022 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)
12/8/2022	2.8	15.1	2.0	62.9	41.7	20.0	0.6	44.7	37.3

N/M - Not measured

Figures



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PROJECT NO.	DES BY
04222010.05	L.E.L.
SCALE	CHK BY
AS SHOWN	D.V.
CAD FILE	APP BY
FIGURE 1	G.H.

SITE LOCATION MAP
2022 ANNUAL ENVIRONMENTAL MONITORING DATA REPORT
ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

DATE: JANUARY 2023

FIGURE: 1

NOTES:

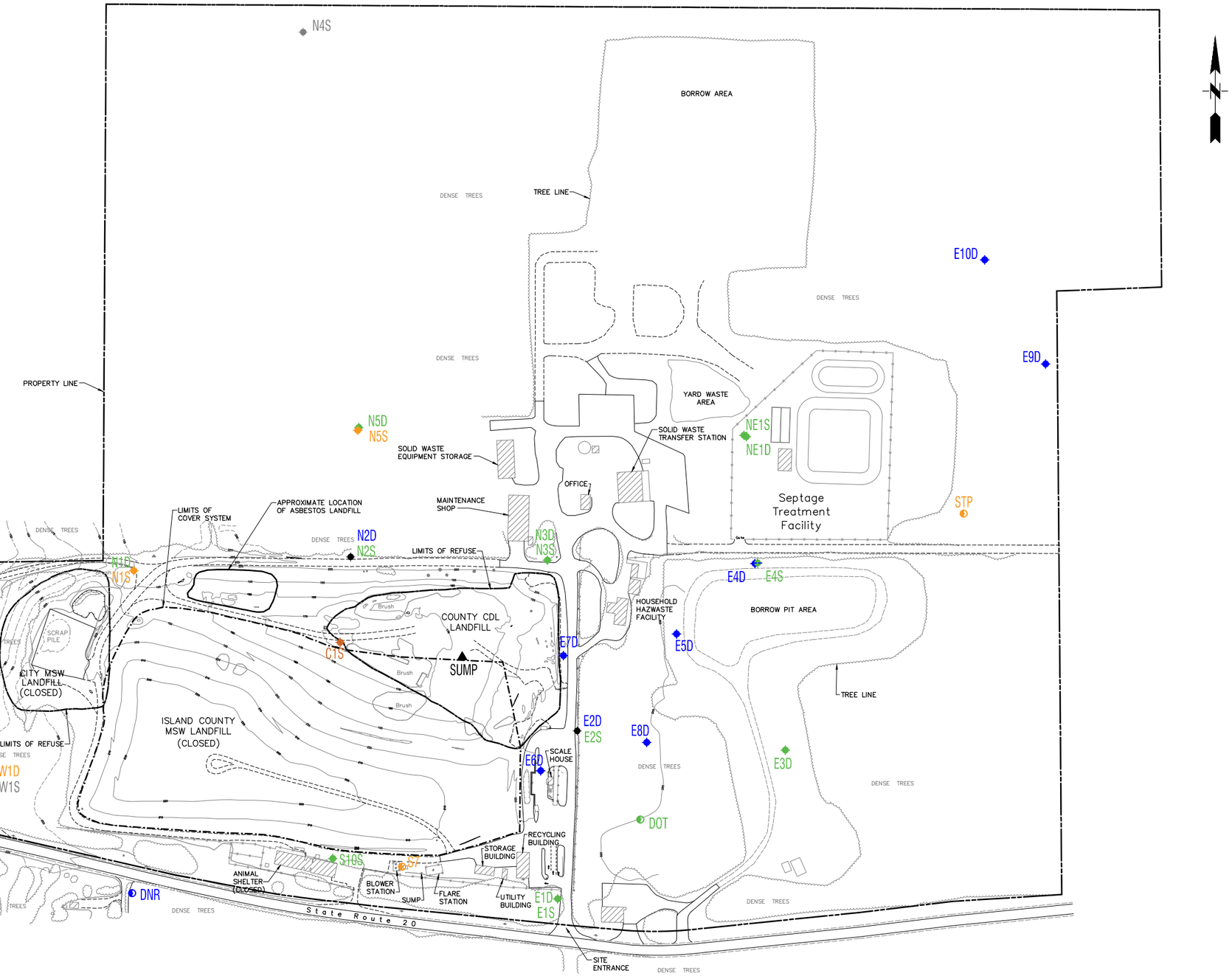
THE SITE TOPOGRAPHIC BASE MAP WAS CREATED BY AERIAL PHOTOGRAMMETRY. BASE MAP PREPARED BY OTHERS. DATE OF PHOTOGRAPH 12-OCT-02.

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
- Location of Sump
- E2D — Well Location Sampled during Each Quartely Event
- E2D — Well Location only Sampled during Q2 and Q4 Events
- C1S — Well Location only Sampled during the Two Year Event
- N4S — Well Location Not Sampled

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

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ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04222010.05	DES BY L.E.L.	GROUNDWATER MONITORING WELL NETWORK	DATE JANUARY 2023
SCALE AS SHOWN	CHK BY D.V.		FIGURE 2
CAD FILE Figure 2	APP BY G.H.		

Figure 3. Groundwater Elevation Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

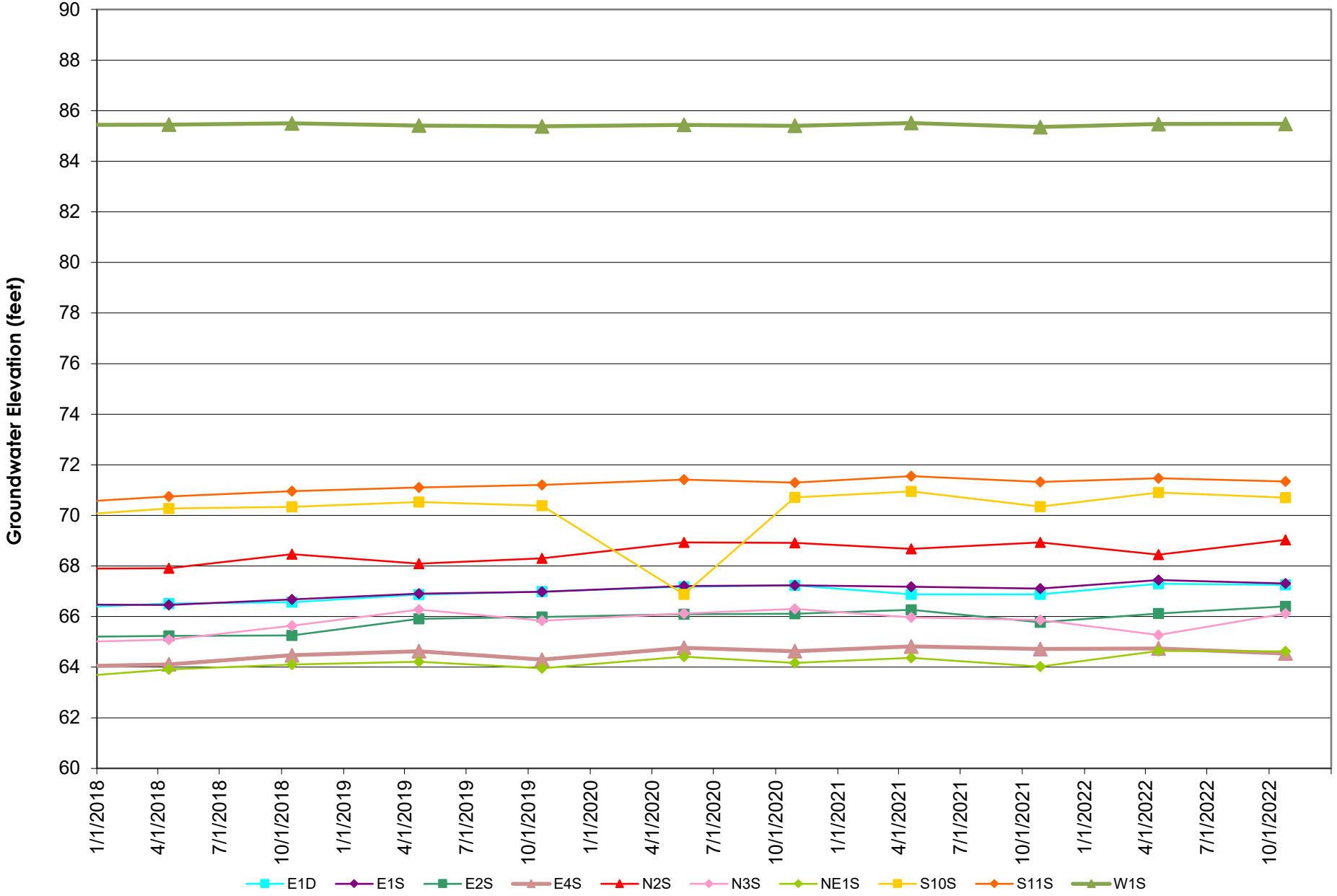
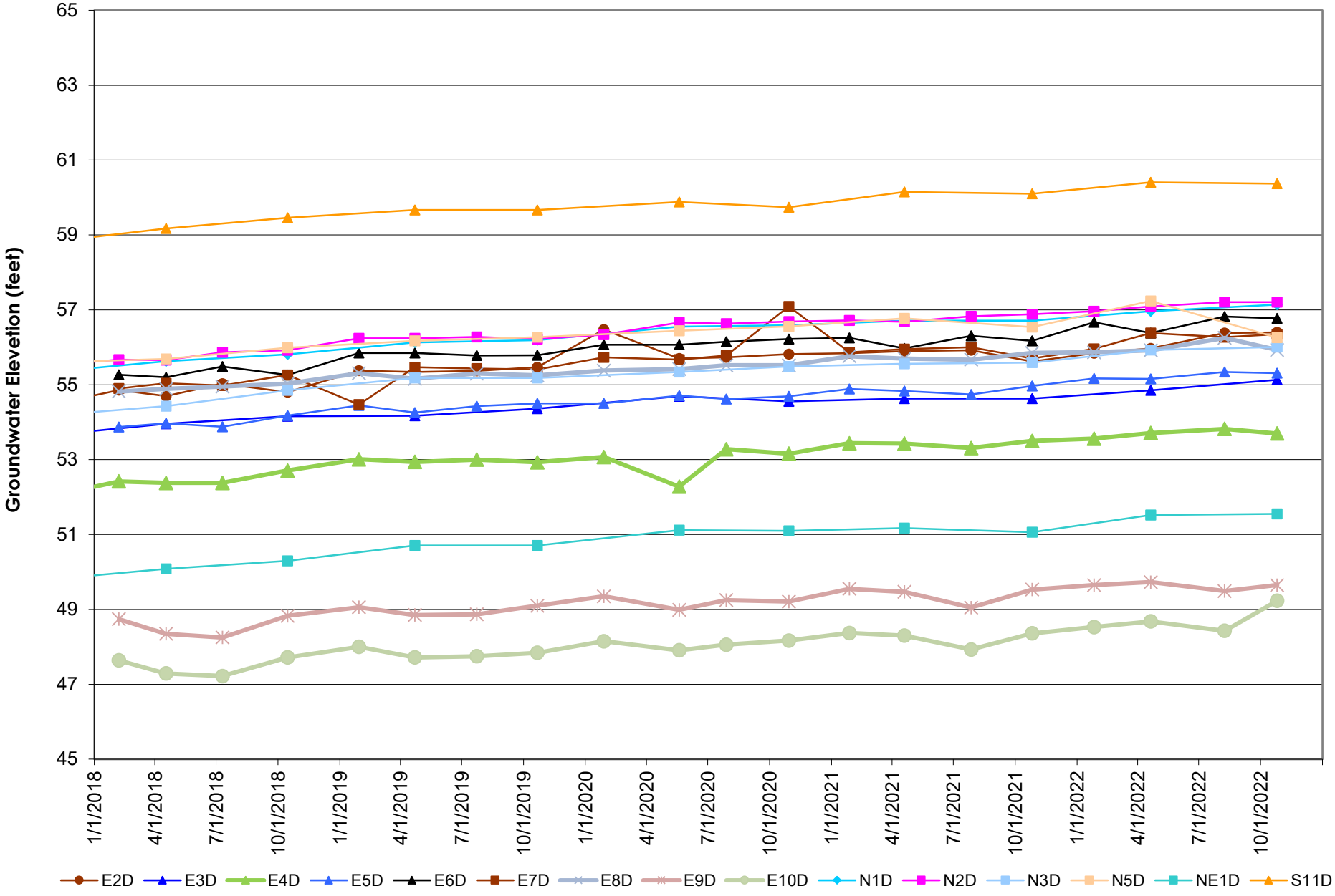
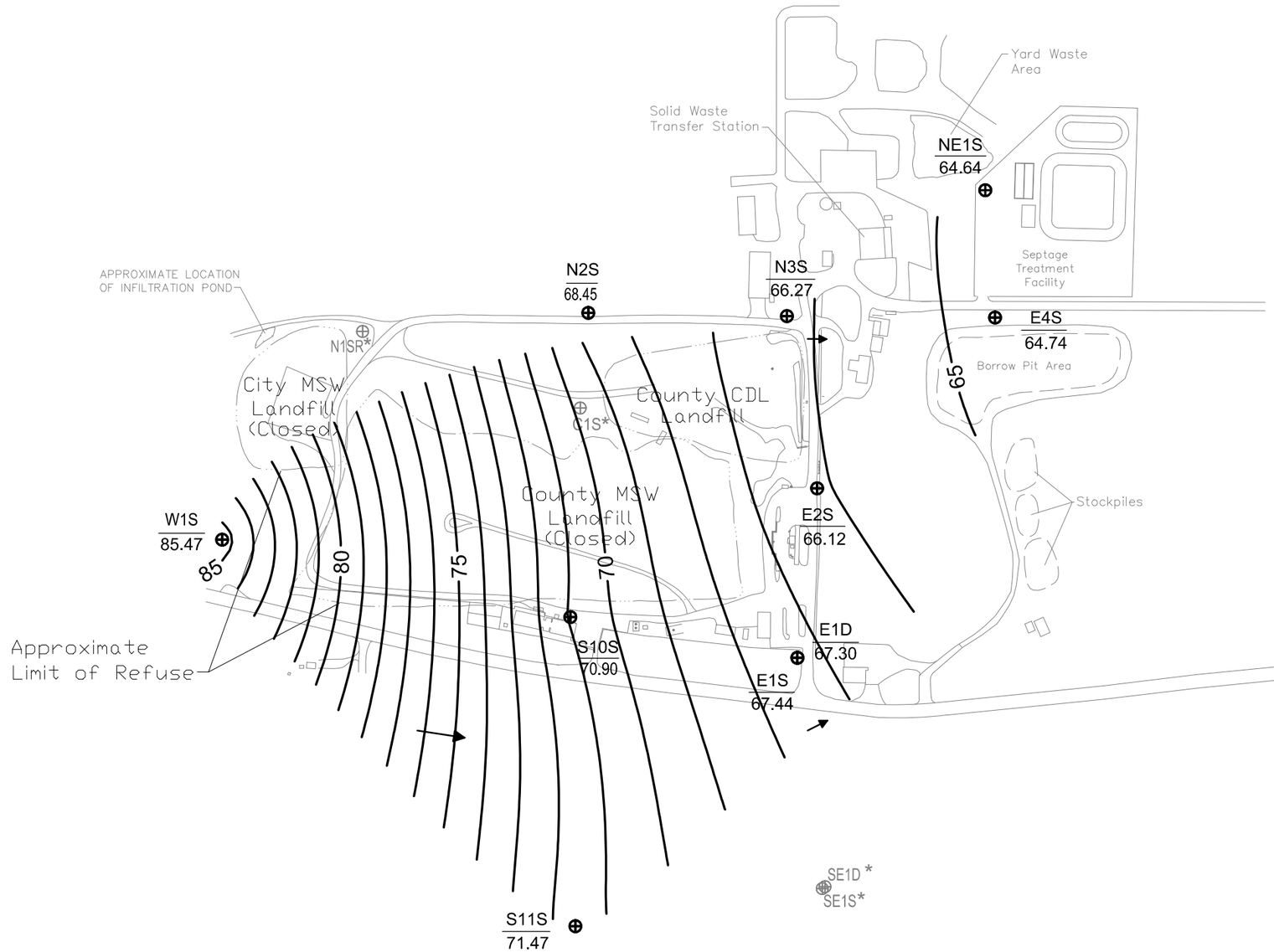


Figure 4. Groundwater Elevation Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington





GRAPHIC SCALE:

0 300 600

SCALE IN FEET

Note: Water Level at two year wells were not used to make contours.

LEGEND

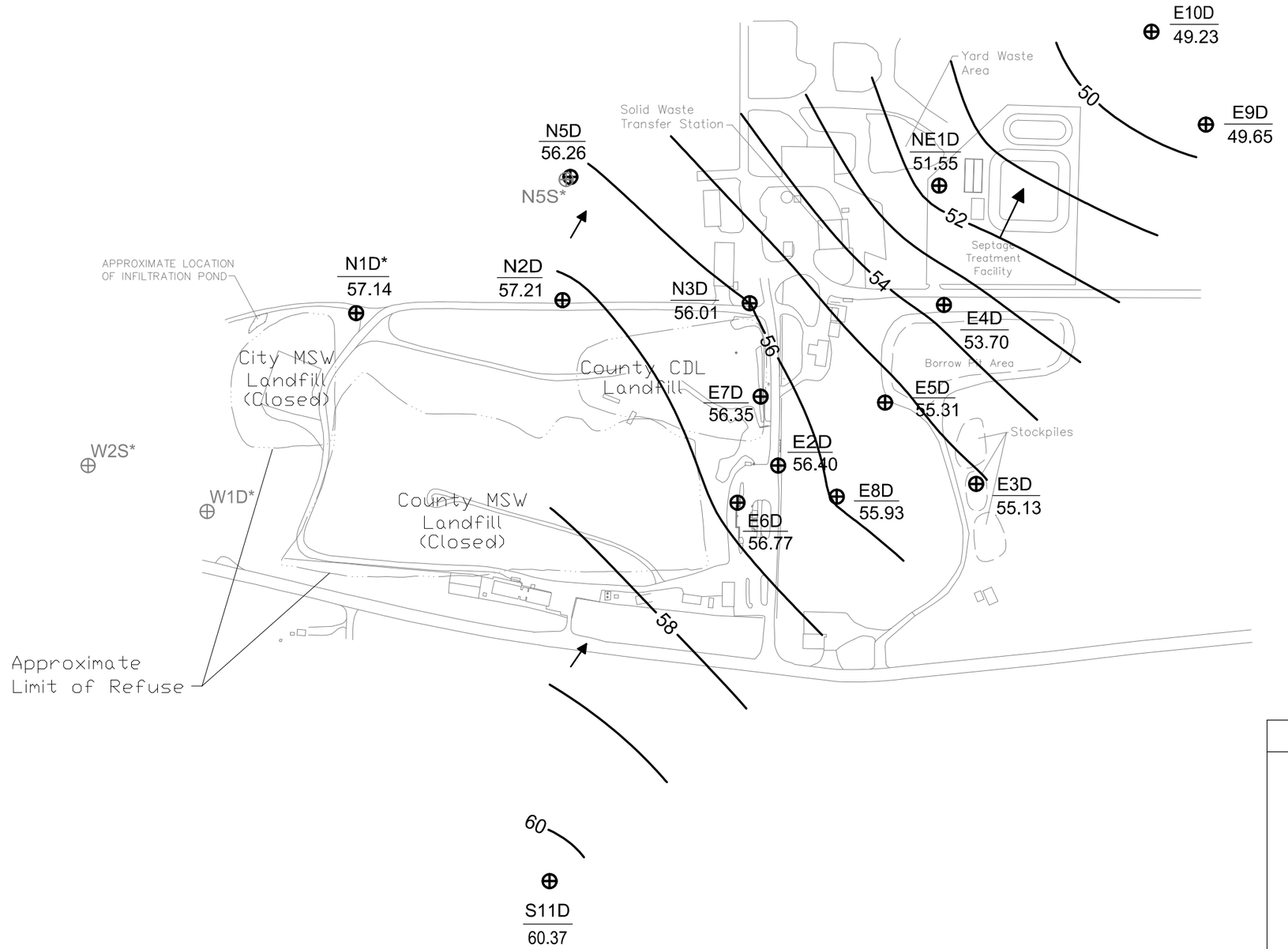
E2S / 66.12	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	Two-Year Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

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ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04222010.05	DES BY S.G.	APRIL 2022 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE JANUARY 2023
SCALE 1" = 300'	CHK BY D.V.		FIGURE 5A
CAD FILE Figure 5A	APP BY G.H.		



GRAPHIC SCALE:

0 300 600

SCALE IN FEET

LEGEND	
E3D / 55.13	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	Two-Year Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

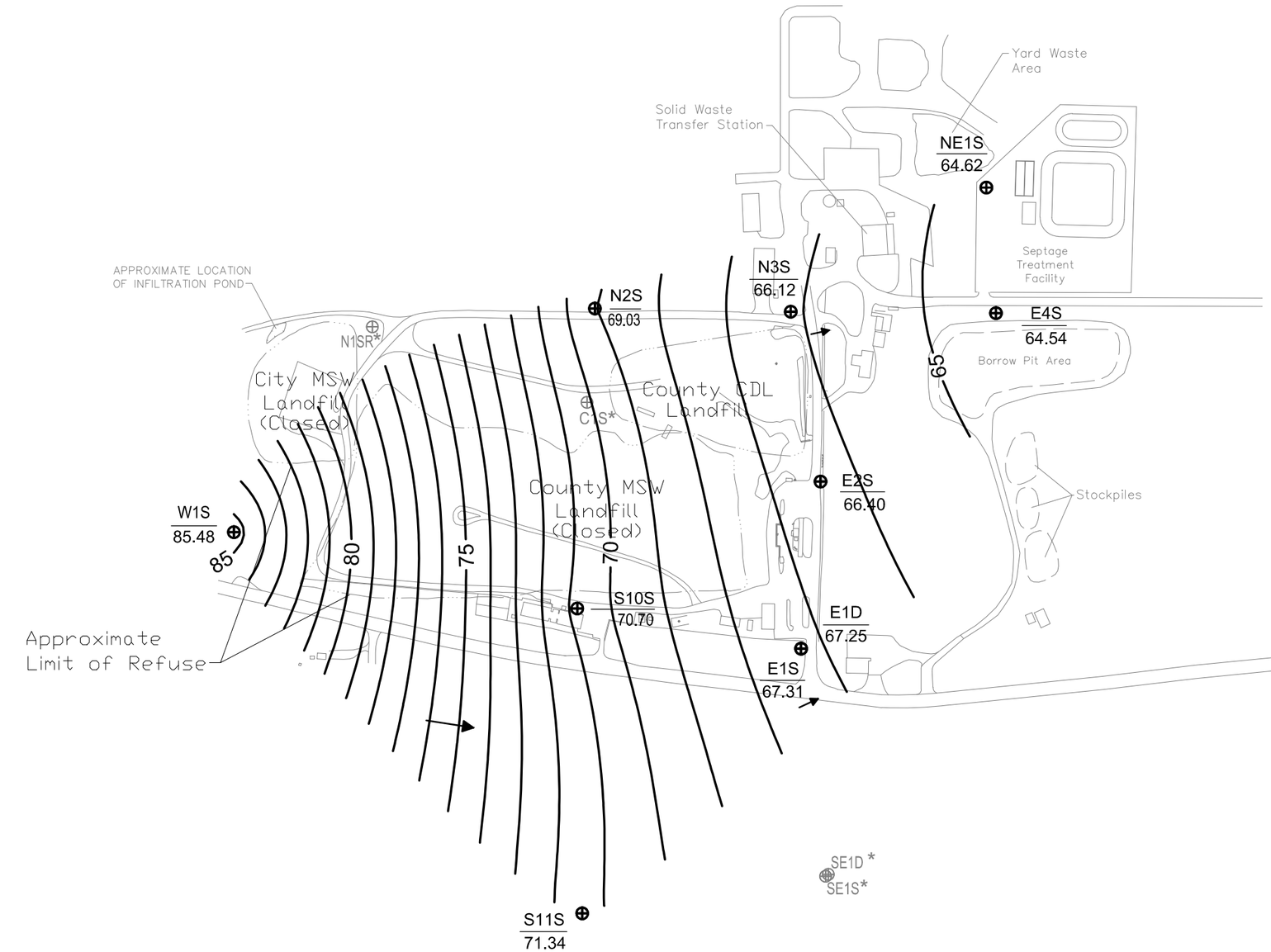
Note: Water Level at N1D and the two year wells were not used to make contours.

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MONITORING DATA REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04222010.05	DES BY S.G.	APRIL 2022 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE JANUARY 2023
SCALE 1" = 300'	CHK BY D.V.		FIGURE 5B
CAD FILE Figure 5B	APP BY G.H.		



LEGEND

E2S / 66.40	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	Two-Year Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

GRAPHIC SCALE:

0 300 600

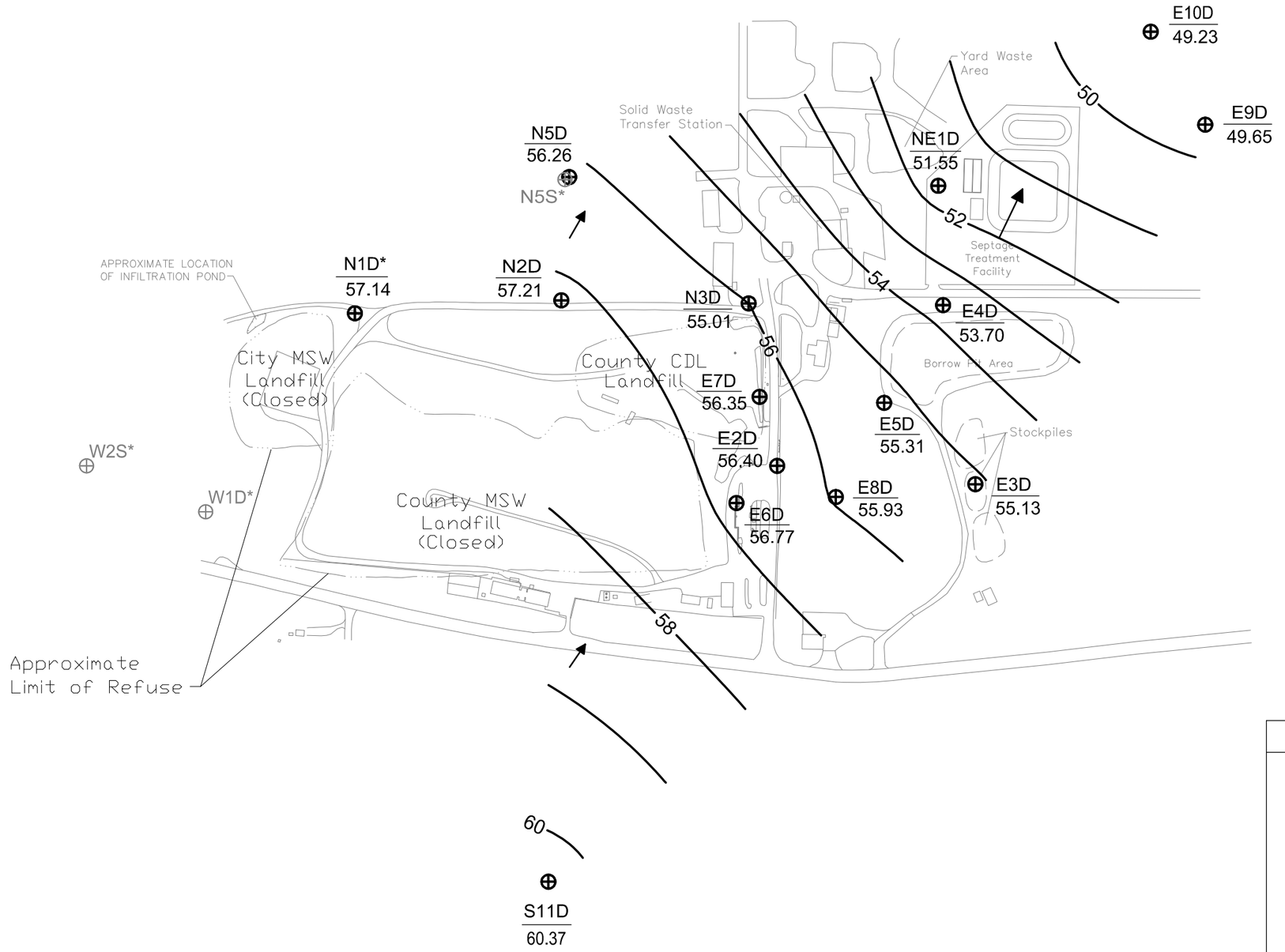
SCALE IN FEET

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ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04222010.05	DES BY J.E.	OCTOBER 2022 AQUIFER 1 GROUNDWATER ELEVATION MAP	DATE JANUARY 2023
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

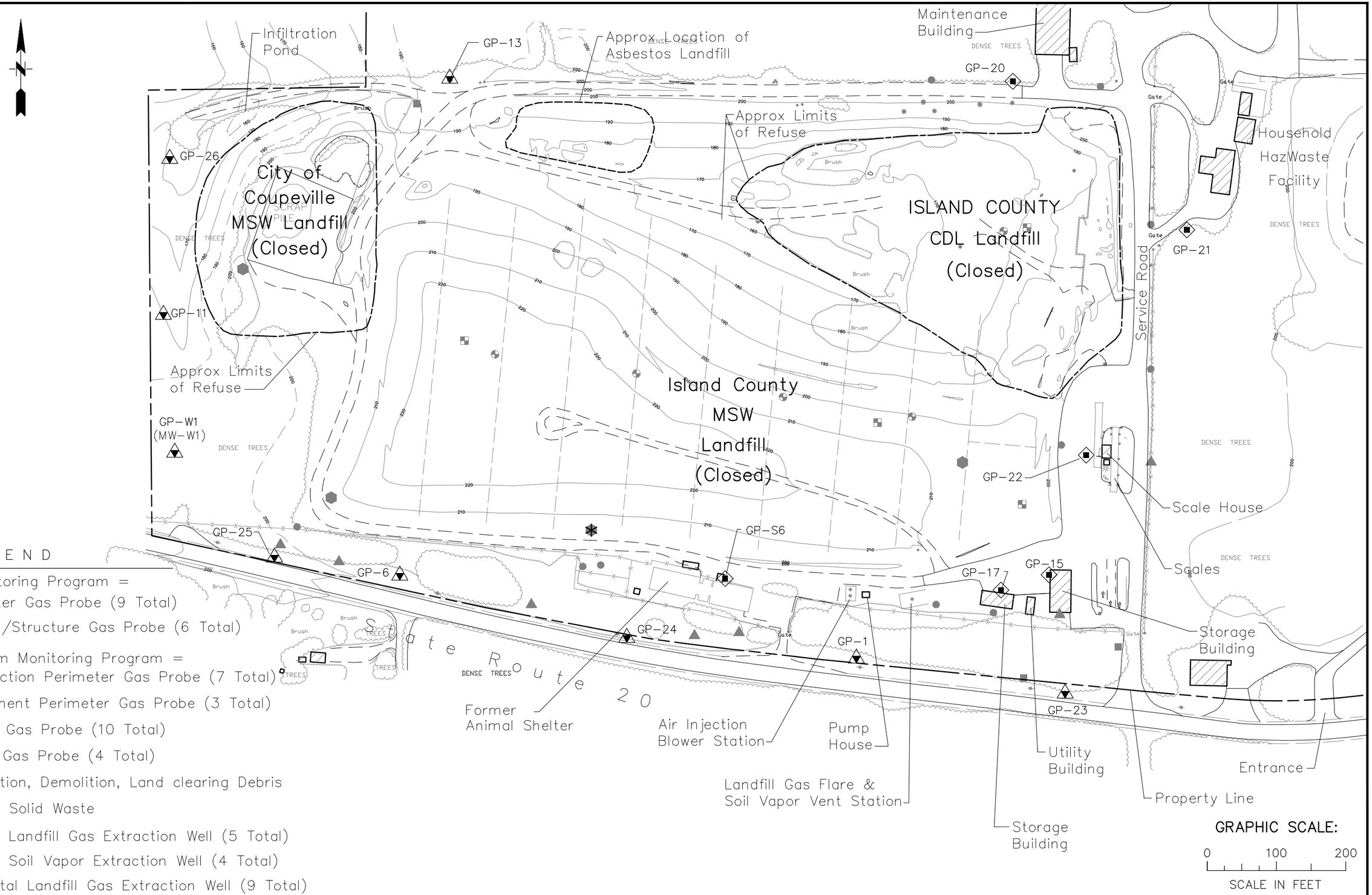
LEGEND	
E3D / 55.13	Well Name / Groundwater Elevation
⊕	Groundwater Monitoring Well
⊕	Two-Year Monitoring Well
←	Groundwater Flow Direction
*	Not used in contouring

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ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

PROJECT NO. 04222010.05	DES BY J.E.	OCTOBER 2022 AQUIFER 2 GROUNDWATER ELEVATION MAP	DATE JANUARY 2023
SCALE 1" = 300'	CHK BY D.V.		FIGURE 6B
CAD FILE Figure 6B	APP BY G.H.		



L E G E N D

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. 04222010.05	DES BY T.A.M.	LANDFILL GAS PROBE MONITORING NETWORK	DATE JANUARY 2023
SCALE AS SHOWN	CHK BY D.V.		FIGURE 7
CAD FILE Figure 7	APP BY G.H.		

Infiltration Pond
GP-13
Approx Limits of Refuse
FIG 10
Maintenance Building
GP-20
Gate
Household HazWaste Facility
Horizontal Gas Extraction Well (Typical 9 Places)
Edge of Cover System
GP-26
Approx Limits of Refuse
VGW-7 (NS)
VGW-8
GP-21
Service Road
VGW-1 (NS)
Gas Conveyance Header
VGW-2
VGW-3
VGW-4
VGW-5 (NS)
VGW-6
GP-22
Vertical Gas Extraction Well (Typical 5 Places)
GP-11
HGW-1
HGW-2
HGW-3
HGW-4
HGW-5
HGW-6
HGW-7
HGW-9
GP-29
GP-W1 (MW-N1)
GP-30
HGW-8
Scales
Scale House
Air Injection Blower Station
VGW-9 (NS)
GP-25
GP-S6
GP-17
GP-15
Storage Building
State Route 20
GP-24
GP-23
Former Animal Shelter
Pump House
FIG 10
Utility Building
Entrance
Landfill Gas Flare & Soil Vapor Vent Station
Property Line
Sediment Trap
Storage Building

LEGEND

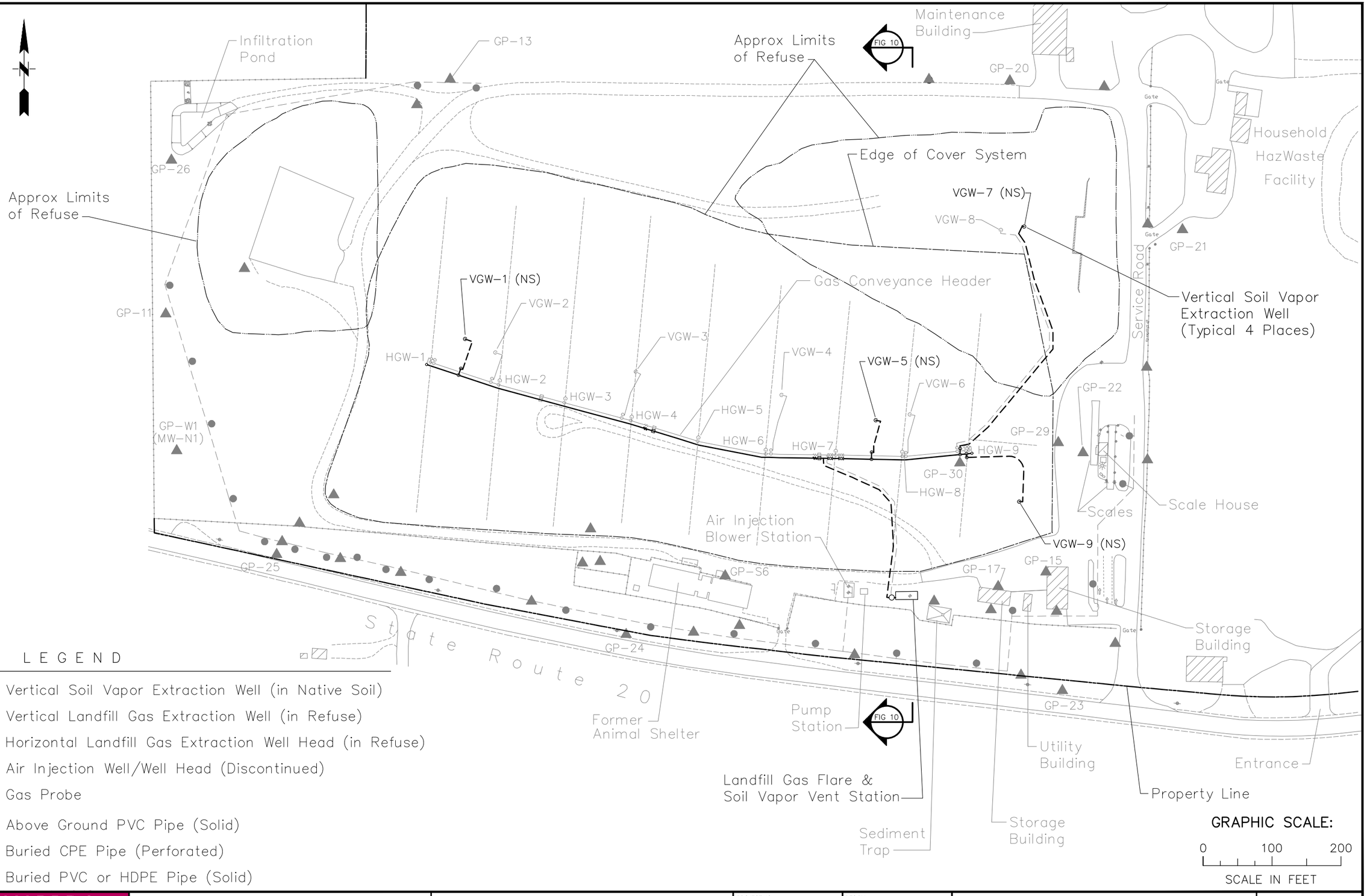
- VGW-# (NS): Vertical Soil Vapor Extraction Well (in Native Soil)
- VGW-#: Vertical Landfill Gas Extraction Well (in Refuse)
- HGW-#: Horizontal Landfill Gas Extraction Well Head (in Refuse)
- Air Injection Well/Well Head (Discontinued)
- Gas Probe
- Above Ground PVC Pipe (Solid)
- Buried CPE Pipe (Perforated)
- 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. 04222010.05	DES BY T.A.M.	LANDFILL GAS EXTRACTION SYSTEM	DATE JANUARY 2023
SCALE AS SHOWN	CHK BY D.V.		FIGURE 8
CAD FILE Figure 8	APP BY G.H.		



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)

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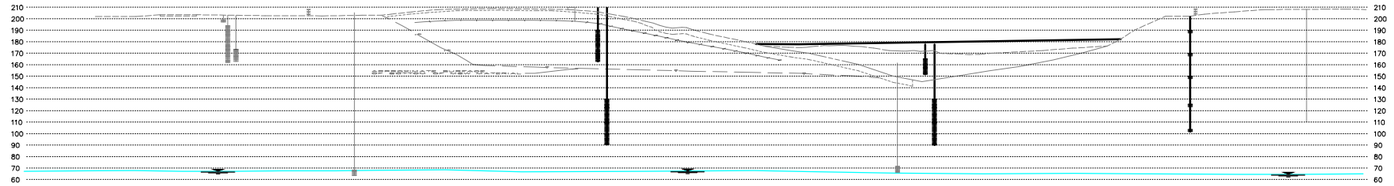
2022 ANNUAL ENVIRONMENTAL MONITORING DATA REPORT

ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY
COUPEVILLE, WASHINGTON

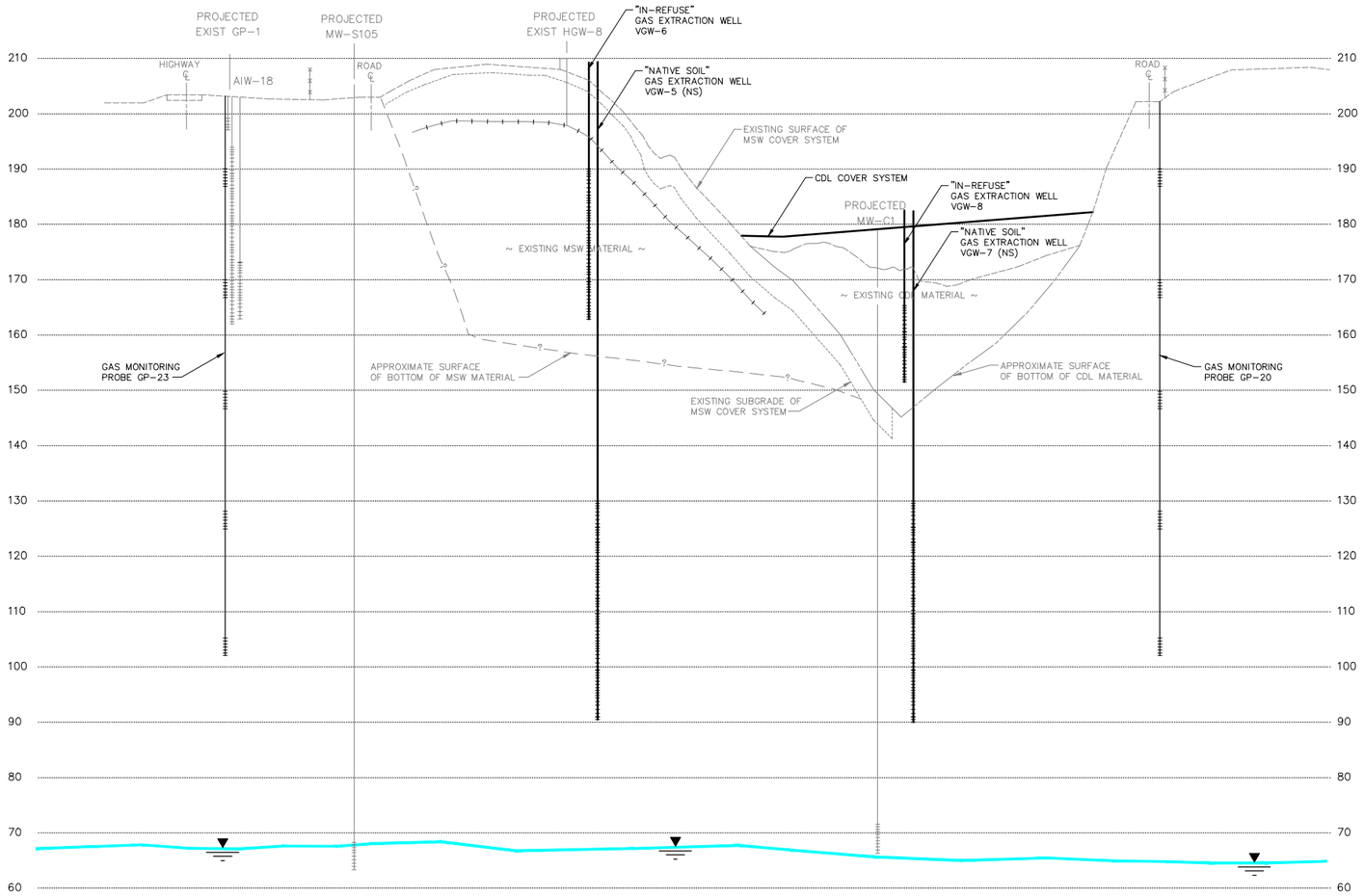
PROJECT NO. 04222010.05	DES BY T.A.M.	SOIL VAPOR EXTRACTION SYSTEM	DATE JANUARY 2023
SCALE AS SHOWN	CHK BY D.V.		FIGURE 9
CAD FILE Figure 9	APP BY G.H.		

LEGEND

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



VIEW LOOKING WEST



GRAPHIC SCALE:

0 100 200

HORIZ. SCALE IN FEET

0 20 40

VERT. SCALE IN FEET

SCS ENGINEERS Environmental Consultants and Contractors 2405 140th Avenue NE, Suite 107 Bellevue, Washington 98005 (425) 746-4600 FAX: (425) 746-6747	2022 ANNUAL ENVIRONMENTAL MONITORING DATA REPORT ISLAND COUNTY COUPEVILLE SOLID WASTE FACILITY COUPEVILLE, WASHINGTON	PROJECT NO. 04222010.05 / DES BY L.E.L. SCALE AS SHOWN / CHK BY D.V. CAD FILE Figure 10 / APP BY G.H.	CROSS SECTION THRU MSW AND CDL LANDFILLS SHOWING EXTRACTION SYSTEMS	DATE JANUARY 2023 FIGURE 10

Figure 11. Water Removed from Stormwater Pump Station
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

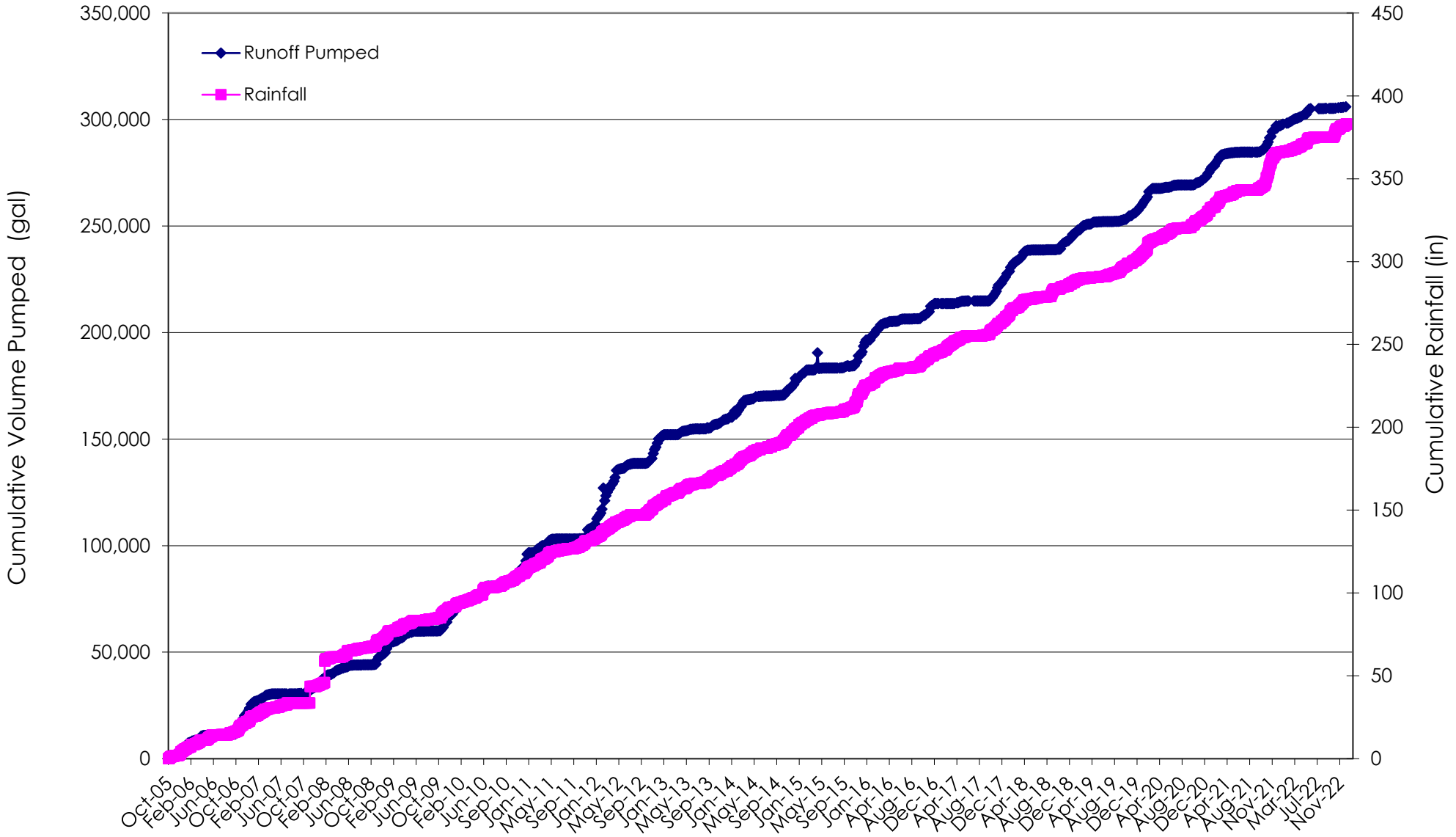
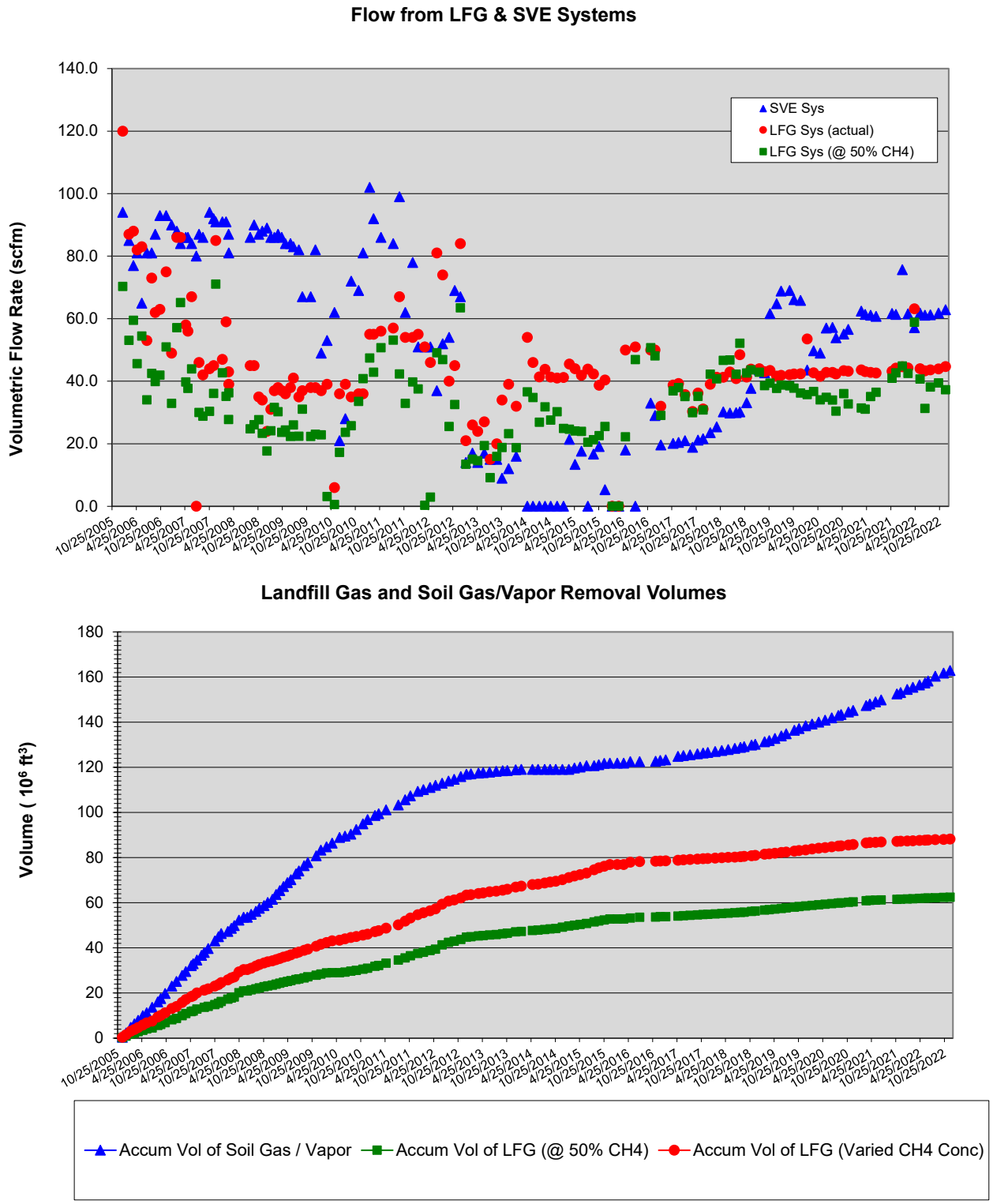


Figure 12. Flow Rates and Removal Volumes for LFG and SVE Systems
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



Appendix A

2022 Field Documentation

January 27, 2022
File No. 04222010.00

Subject: **First Quarter 2022 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

NOTES/SAMPLE DECODING:

Event Dates: January 26, 2022
Field Staff: Sam Graber & Ruben Martinez

- This was a quarterly monitoring event.
- A duplicate sample was collected from monitoring well N2D.
- The YSI Multiparameter meter was calibrated daily prior to sampling.
- Monitoring wells E2D and E4D were sampled for VOCs only.

Sample Date	Sample Number	Well ID
1/26/22	0122-01	N2D
1/26/22	0122-02	N2D (Duplicate)
1/26/22	0122-03	E4D
1/26/22	0122-04	E5D
1/26/22	0122-05	E6D
1/26/22	0122-06	E7D
1/26/22	0122-07	E2D
1/26/22	0122-08	E10D
1/26/22	0122-09	E9D
1/26/22	0122-10	E8D
1/26/22	0122-11	WR1
1/26/22	0122-12	DNR

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: N2D
Sample ID: 0122- 01
Date: 1/26 /22
Weather: Cloudy

146.52 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 90
Flow 300 mL/min

1 ft water = 0.62L 1L = 0.26 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 HNO3 x2; 125 ml NaOH
500 ml Poly: 500 ml H2SO4 x2
250 ml Poly: 40 ml VOA x3 x6
125 ml Poly: 1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1010		7.97	1151	4.46	6.93	134.7		
1015		8.44	1150	4.40	6.95	129.7		
1018		8.72	1156	4.31	6.99	122.6		
1021		8.85	1160	4.17	7.00	118.7		
1024		9.18	1159	4.01	7.02	114.4		
1027		9.45	1156	3.89	7.03	111.1		
1030		12.43	1155	2.08	7.05	102.8	3.68	
1033		12.80	1155	1.40	7.05	101.0		
1036		12.58	1157	0.70	7.06	96.2		
1039	146.51	12.53	1167	0.58	7.07	92.7	3.98	

Notes / Observations (color, odor, anomalies, etc):
~4 min to get water
DUP 0122-02

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

SAMPLER: R. Martinez
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E4D
Sample ID: 0122- 03
Date: 1/26/22
Weather: Partly Cloudy

151.84 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 = 0.26 gallons

Refill 10 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 100 | Total Volume Bailed (liters)
Flow 120 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.
1325		10.53	536	1.91	7.87	-127.2		
1330		10.52	537	1.73	7.89	-132.9		
1333		10.41	538	1.74	7.91	-143.5	6.54	
1336		10.03	531	1.94	7.93	-144.4		
1339		10.04	528	1.68	8.00	-154.0		
1342		9.38	525	3.33	8.02	-146.9	9.02	
1345		9.71	524	2.37	8.03	-157.2	7.47	

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

VOCs only

Rinsate sample - FSDS rewritten by Sam G. (1/27/22)

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 #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ESD
Sample ID: 0122- 04
Date: 1/26 /22
Weather: Sunny

143.39 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 = 0.26 gallons

Refill 10
Discharge 10
Pressure 105
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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1420	9.56	~~6.57~~	1084	11.21	7.51	-54.1		
1425		9.93	1245	7.13	7.31	-31.6		
1428		10.25	1281	5.42	7.31	-40.8		
1431		10.33	1263	4.40	7.34	-58.2		
1434		10.23	1240	3.76	7.36	-69.6		
1437		10.26	1231	3.55	7.37	-73.7		
1440	143.51	10.27	1226	3.19	7.37	-78.7	4.85	2.37

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

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

SAMPLER: R. Mendiola
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: EGD
Sample ID: 0122- 05
Date: 1/ 26 /22
Weather: Sunny

146.30 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 105
Flow 150 mL/min

1 ft water = 0.62L 1L = 0.26 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.
1550		12.93	687	7.53	7.81	-97.0		
1555		13.38	692	1.58	7.74	-145.2		
1558		13.53	692	1.19	7.75	-154.3		
1601		13.55	692	1.01	7.72	-158.8		
1604		13.51	692	0.89	7.72	-161.7		
1607		13.52	687	0.80	7.70	-160.8		
1610	148.48	13.49	683	0.77	7.68	-158.5	2.93	

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

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

SAMPLER: R. Martinez
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ETD
Sample ID: 0122- 06
Date: 1/26 /22
Weather: Sunny

144.54 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 105
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1440		12.9	1558	5.87	7.27	85.2	4.65	
1445		13.5	1872	2.44	6.99	80.7	4.35	
1448		13.4	1911	2.00	6.92	81.9	4.40	
1451		13.3	1942	1.45	6.80	82.9	4.71	
1454		13.3	1963	1.20	6.74	84.6	4.61	
1457		13.5	1972	1.08	6.73	85.0	4.47	
1500	144.70	13.6	1964	1.00	6.72	85.1	5.09	

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

operated controller cycles manually due to controller failure.

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

SAMPLER: Sam Gruber
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E2D
Sample ID: 0122- 07
Date: 1/26/22
Weather: Sunny

146.68 DTW (146)
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 100 mL

1 ft water = 0.62L
1L = 0.26 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.
1555		10.9	1345	7.51	7.65	50.8	3.59	
1600		11.9	1461	6.89	7.31	70.6	3.45	
1603		11.9	1469	4.90	7.05	91.5	3.68	
1606		11.8	1466	2.81	6.93	87.2	3.49	
1609		11.8	1451	3.00	6.92	90.2	3.48	
1612*		11.8	1427	3.38	6.90	93.0	3.48	
1615	146.70	12.0	1430	1.82	6.86	95.7	3.51	

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

VOCs only

* water in tubing goes back down well on refill. Check ball in pump not working?

Doesn't happen on every cycle though.

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 #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E1DD
Sample ID: 0122- 08
Date: 1/ 26 /22
Weather: Cloudy

161.48 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 150 mL/min

1 ft water = 0.62L
1L = 0.26 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		9.2	1002	0.07	7.22	195.2	4.04	
1007		9.6	1063	2.93	7.42	-74.2	4.17	
1010		9.6	1019	1.59	7.45	-101.7		
1013		9.6	974	1.16	7.46	-107.6	3.77	
1016		9.6	982	1.01	7.48	-110.8		
1019		9.7	988	0.89	7.49	-114.4	3.57	
1022	161.60	9.7	998	0.82	7.49	-115.3	3.54	

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

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

SAMPLER: Sam Barber
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E9D
Sample ID: 0122- 09
Date: 1/26 /22
Weather: Cloudy

160.10 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 = 0.26 gallons

Refill 9
Discharge 11
Pressure 105
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.
1055		9.1	559	7.48	7.80	15.8	3.61	
1100		9.3	547	4.13	7.69	19.3	6.00	
1103		9.5	549	2.53	8.09	-66.3	13.53	
1106		9.6	548	1.71	8.15	-80.6		
1109		9.6	548	1.38	8.27	-113.9	30.71	← bubble in flow cell
1112		9.6	547	1.18	8.25	-120.3		
(1115)	165.90	9.6	547	1.10	8.23	-125.9	11.0	
1118		9.6	547	1.00	8.22	-129.3	7.77	

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

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: EBD
Sample ID: 0122- 10
Date: 1/26/22
Weather: Cloudy

147.26 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 10
Discharge 10
Pressure 100
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1158		9.0	560	7.98	7.39	-0.6	4.66	
1203		9.5	565	3.61	7.59	-24.6	4.51	
1206		9.7	568	2.25	7.44	-44.2	4.31	
1209		9.7	570	1.41	7.51	-10.8	4.00	
1212		9.8	572	1.08	7.57	-110.7	3.90	
1215		9.8	572	1.00	7.61	-128.6	3.78	
1218	147.80	9.8	573	0.89	7.64	-135.7	3.74	

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

DOT reading:

0179390

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

SAMPLER: Sam Brake
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: WR 1
Sample ID: 0122- 11
Date: 1/26/22
Weather: partly 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 = 0.26 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.
1305		Begun pump						
1315		9.1	396	3.31	7.32	100.9	0.77	

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: DNR
Sample ID: 0122- 12
Date: 1/26/22
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 = 0.26 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.
1350	Began purge							
1400		9.0	857	2.22	7.43	32.5	1.07	

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

* Floor wet.

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

SAMPLER: Sam Gruber
Printed Name

Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	1/26/22					
Time	900					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	4.05	7.04	8.90	—	
Post Cal Reading	1413	4.00	7.00	8.5	—	
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	JEB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / 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	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	1/26/22					
Time	0900					
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	1405	4.02	7.07	7.65	—	
Post Cal Reading	1413	4.01	7.00	8.5	—	
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	RMB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CCWF					

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

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	1-19-22	PROJECT NAME	Island County Landfill
TEMP	49	BARO	30.05	WIND	4 MPH SW	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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	74384	3.4	6.65’	SV	3.4”	50% Open
Blower # 2	7218	3.4		LFG	4.0”	50% Open

Propane Tank Level	Propane Line PSI
38% Full	12

SUMMARY

0800 SDG onsite to monitor the Extraction Well, Probes.

0815 SDG calibrating the Gem - 5000

0826 SDG monitoring the Probes

1116 Completed monitoring.

1130 Post Calibration

1145 SDG offsite

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 1-18-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 4 MPH Wind Direction: SW Barometric Pressure: 29.86Hg

Air Temperature: 49 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. G504835

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

Time	CH4	CO2	O2
08:17	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
11:45	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	3-2-22	PROJECT NAME	Island County Landfill
TEMP	50	BARO	30.05	WIND	3 MPH S	WEATHER	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	74424	3.4	6.64’	**SV**	**3.4”**	50% Open
Blower # 2	7476	3.4		**LFG**	**4.0”**	50% Open

Propane Tank Level	Propane Line PSI
38% Full	12

SUMMARY

0810 SDG onsite to monitor the Extraction Well, Probes.

0840 SDG calibrating the Gem - 5000

0900 SDG monitoring the Probes, Extraction Wells.

1239 Completed monitoring.

1300 Post Calibration

1330 SDG offsite

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 3-2-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 3 MPH Wind Direction: S Barometric Pressure: 29.76Hg

Air Temperature: 50 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. G504835

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

Time	CH4	CO2	O2
08:40	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
13:00	50.0%	35.0%	20.9%

NOTES:

April 25, 2022
File No. 04222010.02

Subject: **Second Quarter 2022 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

NOTES/SAMPLE DECODING:

Event Dates: April 20-21, 2022
Field Staff: Sam Graber & Ruben Martinez

- This was a semi-annual monitoring event.
- Duplicate samples were collected from monitoring wells N2D and N3D.
- YSI Multiparameter meters were calibrated daily prior to sampling.
- Monitoring well E1S was sampled for Nitrate only.
- Monitoring well E1D was sampled using a deployable pump because the dedicated pump malfunctioned and had to be removed.

Sample Date	Sample Number	Well ID
4/21/22	0422-01	D0T
4/21/22	0422-02	E3D
4/21/22	0422-03	E5D
4/20/22	0422-04	E6D
4/20/22	0422-05	E7D
4/21/22	0422-06	E8D
4/21/22	0422-07	E4S
4/21/22	0422-08	E4D
4/20/22	0422-09	NE1S
4/20/22	0422-10	NE1D
4/20/22	0422-11	N5D
4/21/22	0422-12	S11D
4/21/22	0422-13	S11S
4/21/22	0422-14	S10S
4/20/22	0422-15	DNR
4/20/22	0422-16	N1D
4/20/22	0422-17	N2D
4/20/22	0422-18	N2S
4/20/22	0422-19	N3D
4/20/22	0422-20	N3S
4/21/22	0422-21	E2D

4/21/22	0422-22	E2S
4/21/22	0422-23	E1D
4/20/22	0422-24	E1S
4/21/22	0422-25	WR1
4/20/22	0422-26	E9D
4/20/22	0422-27	E10D
4/20/22	0422-28	N2D (Duplicate)
4/20/22	0422-29	N3D (Duplicate)

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

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: DOT
Sample ID: 0422- 01
Date: 4/21/22
Weather: cloudy

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 = 0.26 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.
1520	Began pump							
1530		10.2	766	1.30	8.08	-133.1	1.35	

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

Monument lid compromised

Meter reading 0185260

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

SAMPLER: Sam Gruber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E3D
Sample ID: 0422- 02
Date: 4/ 21 /22
Weather: Cloudy

149.28 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 300 mL/min

1 ft water = 0.62L 1L = 0.26 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.
1420		14.06	314	8.50	8.05	63.0		
1425		11.69	665	10.62	8.01	65.6		
1428		10.87	678	9.11	7.99	67.6	0.59	
1431		11.07	695	8.31	8.01	70.8		
1434		11.28	709	8.17	7.98	74.4	0.22	
1437		11.38	717	8.14	7.91	77.8		
1440	149.36	11.57	721	8.09	7.85	79.3	0.17	

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

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

SAMPLER: Ruben Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E 5D
Sample ID: 0422- 03
Date: 4/ 21 /22
Weather: Cloudy

143.40 DTW [143]
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 105
Flow 125 mL/min

1 ft water = 0.62L
1L = 0.26 gallons
One Well Volume (liters)
Other :
Flow Setting :
Total Volume Bailed (liters)

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		12.40	1081	8.05	7.60	107.2		
1245		12.37	1221	7.17	7.32	110.0		
1248		12.34	1268	5.83	7.25	94.0		
1251		12.26	1261	4.48	7.28	10.0		
1254		12.18	1200	6.43	7.36	-81.6		
1257		12.11	1186	2.50	7.38	-92.4		
1300	143.50	12.06	1184	1.79	7.38	-101.3	1.53	
1303		12.01	1191	1.53	7.37	-104.3		

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

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

SAMPLER: Ruben Martinez
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E6D
Sample ID: 0422- 04
Date: 4/ 20 /22
Weather: raining

146.21 DTW
10 TOS
10 Intake
100 BOS
150 ml/min 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 150 ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1610		12.71	689	6.86	7.99	113.8		
1615		13.24	695	3.42	7.74	-111.0		
1618		13.39	696	2.24	7.71	-148.1		
1621		13.41	697	1.66	7.70	-157.3		
1624		13.47	698	1.40	7.70	-161.4	0.77	
1627		13.29	699	1.22	7.70	-163.1		
1630	146.81	13.22	699	1.13	7.70	-163.0	0.84	

Notes / Observations (color, odor, anomalies, etc):
turbidity lower due to new vial
↳ sample appeared clear

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

SAMPLER: Ruben Manduvez
Printed Name
Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E7D
Sample ID: 0422- 05
Date: 4/ 20 /22
Weather: raining

DTW: 144.12 (144)
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: 150 mL/min

1 ft water = 0.62L
1L = 0.26 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		12.97	1499	6.41	7.28	140.1		
1755		13.11	1561	7.38	7.24	136.7	0.81	
1758		13.19	1728	4.36	7.09	128.9		
1801		13.24	1829	2.54	6.87	121	0.79	
1804		13.31	1870	1.80	6.78	117.4		
1807		13.32	1875	1.48	6.79	116.9		
1810	144.15	13.33	~~1874~~ 1874	1.28	6.78	113.1	0.92	

Notes / Observations (color, odor, anomalies, etc):
Turbidity lower than last event due to new vial
↳ sample appeared clean

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

SAMPLER: Ruben Martinez
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E8D
Sample ID: 0422- D6
Date: 4/ 21 /22
Weather: Cloudy

147.21 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 100 mL/min

1 ft water = 0.62L 1L = 0.26 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		11.4	590	7.40	8.46	-74.4	6.61	
1430		10.9	582	3.91	8.02	15.2	5.55	
1435		10.6	577	2.23	7.68	-51.1	4.43	
1436		10.5	578	1.65	7.68	-85.1	4.22	
1439		10.5	578	1.37	7.71	-105.2	4.24	
1442		10.6	579	1.12	7.74	-121.2	4.12	
1445		10.6	580	1.01	7.78	-137.4	4.02	

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

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

SAMPLER: Sam Fraser
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E45
Sample ID: 0422- 07
Date: 4/ 21 /22
Weather: cloudy

140.30 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 12
Discharge 8
Pressure 80
Flow 200 mL/min

1 ft water = 0.62L
1L = 0.26 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		10.80	857	7.46	7.36	24.1		
1145		10.80	976	5.21	7.15	39.9	0.70	
1148		10.74	1101	3.51	7.11	47.1		
1151		10.74	1159	3.48	7.10	49.6		
1154		10.76	1174	2.53	7.11	50.6	0.39	
1157		10.75	1183	2.29	7.11	51.0		
1200	140.45	10.78	1187	2.17	7.11	51.1	0.42	

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

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

SAMPLER: Ruben Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E4D
Sample ID: 0422- 08
Date: 4/ 21 /22
Weather: Cloudy

151.69 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 29
Discharge 11
Pressure 105
Flow 125 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1050		10.78	576	10.01	7.50	130.7		
1055		10.74	566	6.45	7.23	63.0		
1058		10.70	543	2.45	7.61	-98.6	1.10	
1101		10.71	528	1.74	7.83	-123.5		
1104		10.71	518	1.29	8.00	-130.9		
1107		10.73	520	1.15	8.04	-134.3	3.21	
1110	152.0	10.73	526	1.05	8.04	-138.6	3.08	

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

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

SAMPLER: Ruben Martinez
Printed Name

Signature 4/21/22

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

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: IVE15
Sample ID: 0422- 09
Date: 4/20/22
Weather: cloudy

143.38 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 10
Pressure 95
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1228		12.9	702	8.21	7.73	23.2	3.73	
1233		12.7	843	7.58	7.45	42.0	4.01	
1236		12.9	878	7.25	7.34	49.9	3.89	
1246	*	12.4	919	6.71	7.26	67.9	4.26	
1249		13.0	917	6.36	7.17	72.5	4.06	
1252		12.8	918	6.21	7.18	74.0	4.00	
1255		12.7	919	6.08	7.21	76.5	3.95	
1258		12.7	919	6.03	7.21	76.8	3.70	
1301	143.62	12.7	920	5.99	7.21	77.6	3.57	

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

* pump failure

monument cap open upon arrival.

water in protector below well cap

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

SAMPLER: Sam Gaber
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: NE1D
Sample ID: 0422- 10
Date: 4/20/22
Weather: Cloudy

156.30 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 = 0.26 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.
1337		13.2	714	2.16	7.90	50.8	3.52	
1345		13.0	687	2.71	7.42	64.3	8.73	
1348		12.9	685	2.21	7.45	60.2	8.98	
1351		12.8	680	1.98	7.49	53.4	9.06	
1354		12.8	679	1.69	7.52	45.3	5.83	
1357		12.7	679	1.50	7.54	37.3	5.35	
1400	156.63	12.7	680	1.40	7.55	30.9	4.74	

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

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: N5D
Sample ID: 0422- 11
Date: 4/20 /22
Weather: Cloudy

147.60 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 = 0.26 gallons
Refill 15
Discharge 15
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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1510		10.0	1148	8.46	7.68	67.5	3.48	
1515		10.0	1300	5.85	7.43	76.0	3.52	
1518		10.0	1388	2.64	7.31	78.0	3.52	
1521		10.1	1415	1.95	7.30	76.1	3.53	
1524		10.1	1434	1.54	7.28	75.8	3.53	
1527		10.1	1438	1.32	7.27	73.9	3.52	
1530		10.1	1442	1.20	7.27	72.7	3.52	
1533		10.0	1442	1.10	7.27	71.7	3.56	
1536		10.0	1442	1.05	7.27	71.2	3.53	

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 #: 04222010.02
Site: CSWF 2Q22
Well ID: S11D
Sample ID: 0422- 12
Date: 4/21/22
Weather: cloudy



144.66 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 95
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1105		9.5	957	8.11	8.43	104.7	4.65	
1110		9.9	946	2.89	7.82	38.4	6.65	
1113		10.0	937	1.75	7.73	-37.1	5.62	
1116		10.0	940	1.31	7.74	-50.1	5.35	
1119		10.0	942	1.13	7.75	-73.0	5.11	
1122		10.0	944	1.05	7.76	-78.9	5.35	
1125		10.0	946	0.98	7.78	-83.5	5.64	

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 #: 04222010.02
Site: CSWF 2Q22
Well ID: S11S
Sample ID: 0422- 13
Date: 4/21/22
Weather: partly cloudy

133.52 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 11
Discharge 9
Pressure 75
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1157		10.0	936	7.02	7.81	-23.3	3.62	
1202		10.0	937	1.21	7.78	-51.6	3.50	
1205		10.0	939	0.50	7.76	-92.6	3.39	
1208		10.0	938	0.46	7.75	-91.2	3.35	
1211		10.0	937	0.42	7.74	-90.4	3.33	
1214		10.0	937	0.40	7.73	-90.1	3.32	
1217		10.0	937	0.38	7.73	-89.7	3.32	
~~1220~~								

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 #: 04222010.02
Site: CSWF 2Q22
Well ID: S105
Sample ID: 0422- 14
Date: 4/ 21 /22
Weather: Cloudy

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

Meter: MP-20 YSI

CONTROL SETTINGS:

Refill	9.5
Discharge	5.5
Pressure	80
Flow	

1 ft water = 0.62L
1L = 0.26 gallons

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

134.75	DTW 1135
	TOS
	Intake
	BOS
	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							

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0945		13.82	1107	7.41	7.07	151.6	0.64	
0950		13.74	1101	4.97	7.03	+143		
0953		13.72	~~1101~~	4.32	7.02	+136		
0956		13.70	1103	3.86	7.01	129	0.43	
0959		13.70	1103	3.74	7.01	126		
1002		13.82	1103	3.56	7.01	121.5		
1005	134.75	13.95	1104	3.49	7.01	117.0	0.72	

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

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

SAMPLER: Ruben Montanez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: DNR
Sample ID: 0422- [redacted] 15
Date: 4/ 20 /22
Weather: Rainy



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 = 0.26 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.
1815		10.1	888	2.03	7.34	109.1	0.79	

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

* water on soil

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 #: 04222010.02
Site: CSWF 2Q22
Well ID: NID
Sample ID: 0422- 16
Date: 4/ 20 /22
Weather: Cloudy

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

Meter: MP-20 YSI

134.55 DTW
TOS
Intake
BOS
Total Depth

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 85
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1500		10.66	999	11.32	7.94	198		
1505		10.28	1383	8.08	7.84	208		
1508		10.97	1399	7.45	7.71	200		
1511		11.11	1405	6.46	7.49	204.0	0.81	
1514		11.18	1406	4.40	7.36	65.0		
1517		11.21	1406	2.40	7.35	24.0	0.37	
1520	134.49	11.20	1406	1.57	7.35	5.0	0.28	

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

Turbidity lower than last event just to view visi

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

SAMPLER: Ruben Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: N2D
Sample ID: 0422- 17
Date: 4/ 20 /22
Weather: Cloudy

146.39 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 85
Flow 300 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1300		12.21	1185	8.26	7.53	182.4		
1305		12.57	1168	7.36	7.55	189.4	0.41	
1308		12.70	1168	5.95	7.38	193		
1311		12.76	1165	4.43	7.23	192.2	0.47	
1314		12.72	1164	4.00	7.21	191		
1317		12.70	1161	3.73	7.18	176		
1320	146.28	12.74	1160	3.42	7.17	177	0.31	

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

Dup taken @ 1340
0422 - 28

Turbidity lower than last event due to new vial

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

SAMPLER: Ruben Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: N2S
Sample ID: 0422- 18
Date: 4/ 20 /22
Weather: Cloudy

135.38 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 90
Flow 200 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1210		12.81	890	15.01	7.74	198		
1215		12.55	1299	2.93	7.00	205		
1218		12.46	1310	2.55	7.00	203		
1221		12.50	1312	2.32	6.99	200		
1224		12.59	1318	2.24	6.99	196	0.8	
1227		12.60	1322	2.23	6.99	194		
1230	135.35	12.60	1328	2.20	6.99	189	0.49	

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

Turbidity lowest then last event due to new vial

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

SAMPLER: Ruben Montinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: N3D
Sample ID: 0422- 19
Date: 4/20/22
Weather: Cloudy

148.46 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 400 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1005		10.67	652	10.04	6.95	187.8		
1010		11.63	644	8.41	6.77	186.4		
1013		12.36	642	~~6.69~~ 6.93	~~184.~~ 6.69	184.7	0.2	
1016		12.57	639	6.37	6.72	184.2		
1019		12.53	641	5.10	6.83	179.3	0.4	
1022		12.41	652	4.05	6.93	173.1		
1025	148.41	12.39	658	3.38	7.03	165	0.5	

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

Dup taken @ 1040
0422-29

Turbidity much lower than last event due to vial Δ from old + stained to new + clear

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

SAMPLER: Ruben Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: N35
Sample ID: 0422- 20
Date: 4/ 20 /22
Weather: Cloudy

138.60 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 = 0.26 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.
1110		11.50	940	27.51	7.36	188		
1115		12.05	1027	5.34	7.25	186	0.4	
1118		12.00	1018	5.67	7.24	188		
1121		11.98	1012	5.70	7.23	189	0.2	
1124		11.98	1006	5.71	7.23	190		
1127		11.97	1004	5.70	7.23	191		
1130	138.74	11.98	1004	5.67	7.23	192	0.2	

Notes / Observations (color, odor, anomalies, etc):
Turbidity lower than last event due to new vial

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

SAMPLER: Ruben Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: EZD
Sample ID: 0422- 21
Date: 4/ 21 /22
Weather: Cloudy

146.55 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS: 1 ft water = 0.62L 1L = 0.26 gallons

Refill 10
Discharge 10
Pressure 105
Flow 500 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.
1545		11.65	1208	9.22	7.60	88.1		
1550		12.48	1364	7.73	7.29	96.6		
1553		12.64	1353	7.45	7.19	97.5		
1556		12.58	1373	6.95	4.86	95.5	0.26	
1559		12.61	1356	2.78	6.88	86.7		
1602		12.61	1343	1.95	6.87	81.9		
1605		12.62	1349	1.68	6.85	76.6	0.15	

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

Turbidity lower than last event due to new vial

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

SAMPLER: Ruben Manthez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E25
Sample ID: 0422- 22
Date: 4/ 21 /22
Weather: Cloudy



136.60 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 = 0.26 gallons

Refill 12
Discharge 8
Pressure 90
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.
1600		12.4	1338	2.82	7.26	66.7	7.02	
1605		12.4	1351	0.71	7.16	71.7	5.62	
1608		12.4	1349	0.68	7.16	73.0	4.95	
1611		12.4	1347	0.63	7.15	74.6	4.70	
1614		12.4	1345	0.59	7.14	75.4	4.66	
1617		12.4	1346	0.61	7.14	75.9	4.68	
1620		12.4	1345	0.60	7.13	76.7	4.45	

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

SAMPLER: Sam Bass
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: ~~04215010.00~~ 04222010.02
Site: ~~Rainbow Valley LF~~ CSWF
Well ID: EID
Sample ID: 0422-23
Date: ~~3/17/2021~~ 4/21/22
Weather: sunny

136.68 DTW
TOS
Intake
BOS 135.20
~~138.90~~ 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 = 0.26 gallons
Refill 8 One Well Volume (liters) Other:
Discharge 7 Flow Setting:
Pressure 95 Total Volume Bailed (liters)
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

Notes / Observations (color, odor, anomalies, etc):
pump malfunctioned
Deployable setat = 174 B TOC

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
942		10.6	1587	3.61	6.98	145.6	39.48	
947		11.0	1738	1.05	7.12	132.6	16.83	
950		11.0	1749	0.90	7.12	115.6	13.45	
953		11.0	1760	0.77	7.12	108.2	11.36	
956		11.0	1761	0.71	7.13	98.7	9.98	
959		11.0	1763	0.65	7.13	83.4	8.78	
1002		11.0	1762	0.62	7.14	78.0	8.31	

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

SAMPLER: Sam Gomez (Printed Name) (Signature)

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

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E15
Sample ID: 0422-24
Date: 4/20/22
Weather: rainy

136.82 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 12.5
Discharge 7.5
Pressure 80
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1725		10.9	1175	8.35	7.42	108.7	3.03	
1730		11.0	1173	6.89	7.01	116.3	3.33	
1733		11.0	1172	6.84	7.00	117.9	3.25	
1736		11.0	1171	6.78	7.00	~~119.9~~ 119.9	3.17	
1739		11.0	1170	6.73	6.99	122.9	3.09	
1742		11.0	1171	6.72	6.99	124.1	3.04	
1745		11.0	1172	6.71	6.99	125.3	3.00	

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

Nitrate only

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

SAMPLER: Sam Gabe
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: WR1
Sample ID: 0422-25
Date: 4/21/22
Weather: partly 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 = 0.26 gallons

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

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.
1250	Begin pumping							
1300		14.8	897	1.86	7.64	51.9	1.92	

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

DTW
121.90 WLS
109.68 WLS

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

SAMPLER: Sam Ember
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E9D
Sample ID: 0422- 26
Date: 4/20 /22
Weather: Cloudy

160.02 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9
Discharge 11
Pressure 10.5
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1120		8.9	561	8.53	7.52	40.9	4.17	
1125		9.6	555	6.59	7.41	46.3	5.02	
1128		9.7	557	3.63	7.37	-14.5	5.25	
1131		9.8	556	2.81	8.01	-42.6	5.31	
1134		9.8	556	2.35	8.15	-74.6	5.06	
1137		9.8	556	1.99	8.17	-97.0	5.10	
1140	165.35	9.8	555	1.78	8.16	-106.5	4.90	

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

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

Groundwater Sampling Data Sheet

Project #: 04222010.02
Site: CSWF 2Q22
Well ID: E10D
Sample ID: 0422- 27
Date: 4/ 20 /22
Weather: cloudy

161.33 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 = 0.26 gallons
Refill 10 One Well Volume (liters) Other:
Discharge 10 Flow Setting:
Pressure 100 Total Volume Bailed (liters)
Flow 120 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.
1020		9.8	1068	8.53	7.11	231.5	4.52	
1025		9.8	1082	3.37	7.14	-68.8	4.46	
1028		9.8	988	1.58	7.13	-75.2	4.35	
1031		9.8	985	1.50	7.13	-97.7	4.14	
1034		9.8	987	1.14	7.14	-103.2	3.92	
1037		9.8	995	0.99	7.15	-106.5	3.79	
1040		9.8	1006	0.92	7.15	-107.9	3.75	

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

SAMPLER: Sam Graber
Printed Name

Signature

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	4/20/22					
Time	900					
Weather (sky or precip, temp)	cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1398	4.36	7.30	7.91		
Post Cal Reading	1413	4.00	7.00	8.5		
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	SEB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / 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	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	4/20/2022					
Time	0840					
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	1414	4.01	7.00	9.22		
Post Cal Reading	1413	4.00	7.00	8.5		
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	RMB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / 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	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	4/21/22					
Time	800					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	3.83	6.81	9.43		
Post Cal Reading	1413	4.00	7.00	8.5		
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID	YSI (Pro DDS) / YSI 556 / Rental				YSI (Pro DDS) / 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	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	4/21/2022					
Time	0740					
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	1428	4.03	7.01	8.64		
Post Cal Reading	1413	4.00	7.00	8.5		
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	RMB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / 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.	04207033.11	**TASK NO.**	1,2,3	**DATE**	4-18-22	**PROJECT NAME**	Island County Landfill
TEMP	49	**BARO**	29.37	**WIND**	5 MPH NE	**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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2		3.4 3.4	6.10''	SV LFG	3.4” 4.0”	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
38% Full	12					

SUMMARY	1235 SDG onsite to monitor the Probes.
1250 SDG calibrating the Gem - 5000	
1312 SDG monitoring the Probes.	
1654 Completed monitoring.	
1700 Post Calibration	
1715 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 4-18-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 5 MPH Wind Direction: NE Barometric Pressure: 29.37Hg

Air Temperature: 49 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. G504835

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

Time	CH4	CO2	O2
12:50	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
17:00	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	**TASK NO.**	1,2,3	**DATE**	4-19-22	**PROJECT NAME**	Island County Landfill
TEMP	49	**BARO**	29.61	**WIND**	5 MPH NE	**WEATHER**	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2	74469 7765	3.4 3.4	6.10"	SV LFG	3.4" 4.0"	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
38% Full	12					

SUMMARY	0745 SDG onsite to monitor the Probes, Extraction Wells
0810 SDG calibrating the Gem - 5000	
0837 SDG monitoring the Probes.	
1024 monitoring the Extraction Wells	
1215 Post Calibration	
1300 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 4-19-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 5 MPH Wind Direction: NE Barometric Pressure: 29.61Hg

Air Temperature: 49 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. G504835

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

Time	CH4	CO2	O2
08:10	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
12:15	50.0%	35.0%	20.9%

NOTES:

October 28, 2022
File No. 04222010.05

Subject: **Fourth Quarter 2022 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

NOTES/SAMPLE DECODING:

Event Dates: October 25-27, 2022
Field Staff: Jovany Estrada & Ruben Martinez

- This was a semi-annual monitoring event.
- Duplicate samples were collected from monitoring wells N2D and N3D.
- YSI Multiparameter meters were calibrated daily prior to sampling.
- Monitoring well E1D was not sampled as replacement pump was broken upon arrival.

Sample Date	Sample Number	Well ID
10/25/22	1022-01	D0T
10/25/22	1022-02	E3D
10/25/22	1022-03	E5D
10/27/22	1022-04	E6D
10/27/22	1022-05	E7D
10/26/22	1022-06	E8D
10/25/22	1022-07	E4S
10/25/22	1022-08	E4D
10/25/22	1022-09	NE1S
10/25/22	1022-10	NE1D
10/27/22	1022-11	N5D
10/26/22	1022-12	S11D
10/26/22	1022-13	S11S
10/25/22	1022-14	S10S
10/27/22	1022-15	DNR
10/26/22	1022-16	N1D
10/26/22	1022-17	N2D
10/26/22	1022-18	N2S
10/26/22	1022-19	N3D
10/26/22	1022-20	N3S
10/27/22	1022-21	E2D
10/27/22	1022-22	E2S
10/26/22	1022-23	E1D
10/26/22	1022-24	E1S

10/27/22	1022-25	WR1
10/26/22	1022-26	E9D
10/25/22	1022-27	E10D
10/26/22	1022-28	N2D (Duplicate)
10/26/22	1022-29	N3D (Duplicate)

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: DOT
Sample ID: 1022- 01
Date: 10/25/2022
Weather: cloudy

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 = 0.26 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.
1540		12.86	722	1.79	7.78	-161.8	1.58	

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

WM= 022632

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

SAMPLER: R. Montinez
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E3D
Sample ID: 1022- 02
Date: 10/25 /2022
Weather: Cloudy

149.00 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 11
Discharge 9
Pressure 100
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1320		13.36	660	10.00	7.86	39.0		
1325		11.41	722	8.52	7.58	56.1		
1328		11.32	723	6.00	7.45	55.4		
1331		11.24	722	3.20	7.56	40.1		
1334		11.19	722	2.18	7.62	5.7		
1337		11.16	722	1.83	7.65	-13.3		
1340	149.0	11.15	721	1.73	7.66	-19.6	0.16	

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

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

SAMPLER: R. Mankins
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ESD
Sample ID: 1022- 03
Date: 10/25/2022
Weather: Cloudy

143.25 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 10S
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1420		11.95	1325	7.65	7.41	94.2		
1425		12.01	1303	2.93	7.32	-10.2		
1428		12.03	1291	2.53	7.21	-53.9		
1431		11.99	1264	1.82	6.99	-75.7		
1434		11.99	1277	1.60	7.14	-89.8		
1437		11.99	1289	1.47	7.14	-92.7		
1440	143.81	11.99	1301	1.39	7.14	-94.4	0.62	

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

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

SAMPLER: R. Mantilla
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E6D
Sample ID: 1022- 04
Date: 10/27/2022
Weather: Cloudy

146.20 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 150 mL/min

1 ft water = 0.62L 1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1010		15.24	684	17.00	7.55	25.4		
1015		14.98	703	2.03	7.57	-163.8		
1018		14.99	705	1.79	7.57	-167.4		
1021		14.96	705	1.68	7.55	-169.6		
1024		14.97	705	1.56	7.55	-171.7		
1027		14.99	705	1.41	7.54	-174.4		
1030	147.72	15.00	704	1.36	7.55	-175.2	0.81	

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

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

SAMPLER: R. Martinez (Printed Name)
Signature 11-1-22

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ETD
Sample ID: 1022- 05
Date: 10/27/2022
Weather: Sunny

144.15 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 = 0.26 gallons

Refill	10	One Well Volume (liters)	Other:
Discharge	10		Flow Setting:
Pressure	100	Total Volume Bailed (liters)	
Flow	150 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.
1200		16.32	1423	6.00	7.14	25.7		
1205		15.08	1746	3.20	6.92	38.7		
1208		14.97	1836	1.51	6.67	40.8		
1211		14.93	1841	1.18	6.65	40.9		
1214		14.92	1842	1.12	6.63	40.7		
1217		14.92	1841	1.10	6.65	40.4		
1220	144.22	14.89	1840	1.06	6.62	40.3		

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

DTW N45 = 121.87

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

SAMPLER: R. Mantinette (Printed Name) (Signature)

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: F8D
Sample ID: 1022- 06
Date: 10/ 6/2022
Weather: Cloudy

147.20 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 15
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1040		11.05	551	8.94	7.95	96.7		
1045		10.75	541	7.86	7.78	94.8		
1048		10.75	539	4.11	7.44	83.7		
1051		10.79	538	2.84	7.39	33.3		
1054		10.83	540	1.57	7.42	-115.3		
1057		10.83	541	1.35	7.46	-133.6		
1100	147.37	10.84	541	1.21	7.50	~~103~~ -144	01.26	

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

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: EYS
Sample ID: 1022-EYS
Date: 10/25/2022
Weather: Cloudy

140.5 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 40/2
Discharge 8
Pressure 50
Flow 200 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1200	140.5	11.3	740	9.52	7.49	189.7	2.59	
1205		10.8	1073	4.42	7.08	262	3.33	
1208		10.8	1145	3.00	7.12	200.9	4.61	
1211		10.7	1164	2.57	7.14	200.7	5.83	
1214		10.7	1172	2.37	7.14	200.8	9.10	
1217		10.8	1185	2.12	7.14	200.3	13.80	
1220	140.8	10.8	1188	2.15	7.14	199.7	16.81	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E4D
Sample ID: 1022- 08
Date: 10/25/2022
Weather: cloudy

151.70 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 105
Flow 125mL/min
1 ft water = 0.62L
1L = 0.26 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.
1150		11.64	536	40.00	7.57	60.4		
1155		11.52	528	16.00	7.48	0.23		
1158		11.23	527	3.67	7.44	-24.4		
1201		11.17	516	2.38	7.79	-74.0		
1204		11.16	519	2.04	7.88	-89.2		
1207		11.15	527	1.91	7.90	-96.1		
(1210)	151.81	11.15	529	1.88	7.90	-95.1	1.13	
1213		11.14	526	1.79	7.89	-102.0		

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

SAMPLER: R. Martinez
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: NE1S
Sample ID: 1022-09
Date: 10/25/2022
Weather: Cloudy

143.4 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 = 0.26 gallons

Refill 10
Discharge 10
Pressure 105
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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1420	143.4	14.8	629	9.29	7.82	149.8	2.79	
1425		13.7	853	7.73	7.27	164.4	2.83	
1428		13.5	863	7.29	7.24	166.0	2.84	
1431		13.4	866	7.13	7.24	167.8	2.81	
1434		13.4	868	7.07	7.25	169.4	2.67	
1437		13.3	868	7.04	7.25	171.2	2.75	
1440	144.43	13.3	869	7.03	7.25	172.3	2.74	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: NE1D
Sample ID: 1022-10
Date: 10/25/2022
Weather: Cloudy

156.27 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 105
Flow 125 ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
~~1305~~ 1305	156.27	15.4	658	8.18	7.12	190.1	2.73	
1310		14.6	644	6.28	7.31	185.1	2.72	
1313		14.0	634	3.54	7.52	171.7	3.19	
1316		13.9	629	2.83	7.56	158.0	3.11	
1319		13.9	628	2.46	7.58	138.8	3.16	
1322		13.8	627	2.20	7.60	115.2	3.34	
1325	156.41	13.8	627	2.00	7.61	94.2	3.39	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: NSD
Sample ID: 1022-~~09~~11
Date: 10/27/2022
Weather: cloudy

148.58 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 105
Flow 125ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0900	148.58	10.6	1279	3.11	7.20	198.6	2.52	
0905		10.6	1294	2.64	7.19	197.2	2.52	
0908		10.6	1317	2.13	7.20	193.8	2.57	
0911		10.6	1328	1.81	7.21	190.1	2.54	
0914		10.6	1332	1.55	7.23	185.6	2.55	
0917		10.6	1332	1.46	7.24	183.5	2.55	
0920	147.5	10.6	1332	1.38	7.25	181.3	2.60	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: S11D
Sample ID: 1022- 12
Date: 10/26/2022
Weather: cloudy

144.70 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 = 0.26 gallons

Refill: 10
Discharge: 10
Pressure: 100
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):
by campground #9

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300		10.39	850	7.36	8.01	80.1		
1305		10.35	862	3.42	8.06	-10.3		
1308		10.30	871	1.52	7.59	-34.4		
1311		10.29	873	1.20	7.60	-65.7		
1314		10.28	877	1.03	7.63	-88.1		
1317		10.27	878	1.00	7.63	-89.9		
1320	146.32	10.23	877	0.97	7.64	-90.5	2.26	

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ~~S13~~ S11S
Sample ID: 1022- ~~14~~ 13
Date: 10/26/2022
Weather: cloudy

133.65 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 80
Flow 203 mL/min

1 ft water = 0.62L
1L = 0.26 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):

by campground #9
needs lock
~~1220~~ 1226 or 3501

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
~~1220~~								
~~1220~~		10.50	870	7.96	7.60	70.2		
1225		10.23	877	1.20	7.57	-74.7		
1228		10.23	876	0.98	7.58	-76.4		
1231		10.21	875	0.86	7.58	-76.5		
1234		10.22	875	0.80	7.58	-76.5		
1237		10.21	874	0.74	7.58	-76.4		
1240	134.63	10.21	874	0.73	7.58	-76.3	0.24	

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: 5105
Sample ID: 1022- 14
Date: 10/25/2022
Weather: cloudy

134.95 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9.5
Discharge 5.5
Pressure 80
Flow 200mL/min

1 ft water = 0.62L 1L = 0.26 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.
0935		14.62	882	5.97	7.05	157.1		
0940		14.41	1107	2.89	6.88	102.4		
0943		14.32	1111	2.64	6.86	87.3		
0946		14.30	1114	2.60	6.85	79.7		
0949		14.28	1115	2.57	6.84	74.4		
0952		14.28	1115	2.53	6.84	71.3		
0955	135.10	14.27	1114	2.46	6.83	67.2	0.79	

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

SAMPLER: R. Mendiola (Printed Name)
Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: DNR
Sample ID: 1022- 15
Date: ~~10/26/2022~~ 10-27-22
Weather: Cloudy

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 = 0.26 gallons

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

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		11.49	841	3.50	7.28	11.8	0.71	

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: MW-16
Sample ID: 1022-16
Date: 10/26/2022
Weather: Cloudy

134.37 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 85
Flow 300 ml/min
1 ft water = 0.62L
1L = 0.26 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.
1415	134.37	14.3	1114	7.39	8.07	138.7	3.52	
1420		12.9	1344	7.65	7.75	153.8	2.92	
1426		↓	↓	↓	↓	↓	↓	
1423		12.6	1369	7.04	7.58	161.0	2.98	
1426		12.5	1372	6.08	7.48	163.5	2.94	
1429		12.4	1374	4.84	7.34	101.0	2.99	
1432		12.3	1371	3.54	7.29	18.1	3.01	
1435	135.38	12.3	1369	2.93	7.27	-0.1	2.96	

Notes / Observations (color, odor, anomalies, etc):
yellow jacket nest in wellhead. dormant at the moment

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: N2D
Sample ID: 1022-19
Date: 10/26/2022
Weather: Cloudy

146.27 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 85
Flow 300 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1225	146.27	13.8	1154	7.07	7.43	171.7	3.11	
1230		13.2	1137	1.55	7.02	175.3	3.84	
1233		13.2	1134	1.24	7.02	173.0	3.42	
1236		13.1	1138	1.09	7.02	170.5	3.13	
1239		13.1	1140	1.01	7.01	168.6	3.06	
1242		13.0	1142	0.94	7.01	166.4	2.96	
1245	146.26	13.1	1142	0.90	7.01	164.4	2.94	
1245								

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

Duplicate taken @ 1305
1622-28

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

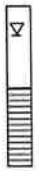
SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: N25
Sample ID: 1022- 18
Date: 10/26/2022
Weather: cloudy



134.80 DTW
TOS
Intake
BOS
Total Depth

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

CONTROL SETTINGS:
Refill 10
Discharge 5
Pressure 90
Flow 200 ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1120	134.80	14.2	879	7.21	7.55	159.4	2.98	
1125	"	13.0	1315	4.14	6.91	181.8	3.10	
1128		12.9	1324	3.50	6.90	182.9	3.05	
1131		12.9	1329	3.01	6.90	183.2	3.06	
1134		12.9	1333	2.69	6.90	183.1	3.03	
1137		12.9	1336	2.56	6.90	182.9	3.04	
1140	134.75	12.9	1335	2.37	6.90	182.5	3.01	

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ~~MW~~ N3D
Sample ID: 1022- 19
Date: 10/26/2022
Weather: Cloudy

148.38 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 400 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1000	148.38	13.8	629	6.67	7.33	137.8	2.99	
1005		13.4	630	5.39	6.64	166.0	2.91	
1008		13.3	629	5.36	6.66	168.9	2.95	
1011		13.1	628	4.24	6.78	169.0	2.95	
1014		13.0	634	3.63	6.87	167.0	2.95	
1017		13.0	643	3.11	6.94	164.8	3.00	
1020	148.4	12.9	650	2.70	7.04	160.4	2.98	

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

Duplicate 1022-29 taken @ 1035

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ~~MW~~ XXS N3D
Sample ID: 1022- 23
Date: 10/26/2022
Weather: Cloudy

138.75 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 = 0.26 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.
907	138.75	12.7	911	5.55	6.91	224.5	7.67	
912		12.3	996	4.78	7.04	214.5	8.68	
915		12.3	989	5.13	7.09	209.9	9.99	
918		12.3	982	5.51	7.13	206.5	10.28	
921		12.2	980	5.58	7.14	205.0	9.90	
924		12.2	979	5.61	7.14	204.3	9.50	
927	136.87	12.2	980	5.67	7.15	203.4	7.48	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E2D
Sample ID: 1022- 21
Date: 10/27/2022
Weather: partly cloudy

146.12 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 = 0.26 gallons
Refill 10 One Well Volume (liters) Other:
Discharge 10 Flow Setting:
Pressure 105 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.
1115	146.12	14.3	1105	7.78	7.45	174.3	2.73	
1120		12.7	1345	3.52	6.85	190.1	3.06	
1123		12.7	1325	2.53	6.81	185.8	2.75	
1126		12.7	1321	2.17	6.80	186.9	3.38	
1129		12.7	1334	1.90	6.80	184.6	3.55	
1132		12.7	1344	1.80	6.79	183.0	3.76	
1135	146.12	12.7	1349	1.67	6.80	181.4	5.43	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E2S
Sample ID: 1022-22
Date: 10/27/2022
Weather: partly cloudy

13632 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 400 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1030	136.32	12.6	1245	2.08	6.84	180.2	2.76	
1035		12.6	1238	1.05	6.84	177.4	2.64	
1038		12.6	1238	1.06	6.84	175.8	2.63	
1041		12.6	1237	1.01	6.85	173.7	2.68	
1044		12.6	1237	0.93	6.85	172.5	2.66	
1047		12.6	1236	0.88	6.86	171.4	2.64	
1050	136.43	12.6	1237	0.92	6.86	169.9	2.69	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: EID
Sample ID: 1022- 23
Date: 10/26/2022
Weather: Cloudy

13673 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 55
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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.

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

Not sampled
Pump to be installed was broken upon arrival
↳ if need to sample, bring deployable and enough tubing for each spool

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

SAMPLER: R. Montague
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E15
Sample ID: 1022-24
Date: 10/26/2022
Weather: Cloudy

136.95 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 = 0.26 gallons

Refill 12.5
Discharge 7.5
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):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1555	136.95	11.7	1082	7.50	7.42	131.2	2.77	
1600		11.3	1068	6.25	7.01	140.3	3.84	
1603		11.3	1064	6.22	7.01	142.1	3.32	
1606		11.3	1064	6.16	7.00	145.0	3.15	
1609		11.3	1066	6.15	7.00	148.1	3.01	
1612		11.3	1067	6.13	7.00	151.8	2.90	
1615	136.85	11.3	1068	6.12	7.00	153.3	2.89	

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

SAMPLER: Jovanny Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: WR1
Sample ID: 1022- 25
Date: 10/27/2022
Weather: Cloudy

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 = 0.26 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.
0920		11.07	847	4.63	7.18	93.1	0.26	

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

10 min purge

located @ residence
20378 driveway
w/ green mail box

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

SAMPLER: R. Martinez
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E9b
Sample ID: 1022-~~E9b~~ ~~E6b~~ 26
Date: 10/~~26~~/2022
Weather: Cloudy

160.10 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 125 ml/min
1 ft water = 0.62L
1L = 0.26 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.
~~0756~~ 1000	160.1	11.2	514	9.67	7.5	230	13.6	
1005		10.8	513	9.52	7.56	229.1	0.38	
1008		10.7	914	9.48	7.55	228.8		
1011		10.6	515	9.44	7.54	229.0		
1014		10.5	515	9.39	7.52	228.8		
1017		10.5	514	9.06	7.52	~~259~~ 229.1		
1020	166.69	10.6	514	8.66	7.52	227.2	0.35	

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

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

SAMPLER: Jovanny Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E10D
Sample ID: 1022-27
Date: 10/25/2022
Weather: cloudy

160.78 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 = 0.26 gallons

Refill: 10
Discharge: 10
Pressure: 100
Flow: 150 mL/m

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

Filtered? (Y) N
Locked? (Y) N 350;
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.
1030		10.71	1000	13.00	6.97	139.8		
1035		10.45	988	6.23	7.00	13.2		
1038		~~45~~ 10.3	951	4.44	7.32	-77.4		
1041		10.35	917	3.64	7.33	-87.9		
1044		10.36	910	3.23	7.35	-93.6		
1047		10.36	911	2.90	7.37	-97.0		
1050	161.63	10.34	914	2.55	7.37	-100.8	0.28	

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

SAMPLER: R. Montpree
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: WIS
Sample ID: 1022-
Date: 10/ /2022
Weather: Cloudy

109.67 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 = 0.26 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):

WL Only

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/25/2022					
Time	8:16 AM					
Weather (sky or precip, temp)	Cloudy 46°					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~.445~~	4 ~~4.01~~	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1426	4.05	7.10	8.51	0.1	
Post Cal Reading	1413	4.00	7.0	8.50	0.1	
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	Jovany Estrada					
Instrument Type, ID	MP20 / (YSI 556)				MicoTPW / HACH2000	
Calibration Location	LF office					

* 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

Date	10/25/22					
Time	0815					
Weather (sky or precip, temp)	Cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1397	4.17	7.01	7.19	----	
Post Cal Reading	1413	4.00	7.00	8.5	----	
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	R. Montimer					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CSWF shop					

* 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	10/26/22					
Time	0520					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	~~4.00~~ 4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1422	4.09	7.15	10.89		
Post Cal Reading	1413	4.00	7.00	8.47		
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	Jovany Estrada					
Instrument Type, ID	MP20 / (YSI 556)				MicoTPW / HACH2000	
Calibration Location	LF Office					

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	10/26/22					
Time	0756					
Weather (sky or precip, temp)	Cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1419	3.96	6.98	9.30		
Post Cal Reading	1413	4.00	7.09	8.50		
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	R. Montinez					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CSWF machine shop					

* 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	10/27/2022					
Time	0810					
Weather (sky or precip, temp)	Cloudy, windy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4 4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1403	3.92	6.96	7.50		
Post Cal Reading	1413	4.00		8.5		
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	Jovanny Estrada					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Office					

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	10-27-22					
Time	0800					
Weather (sky or precip, temp)	cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	3.99	7.01	6.58		
Post Cal Reading	1413	4.00	7.00	8.0		
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	R. Mantime E					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CSWF machine shop					

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

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	**TASK NO.**	1,2,3	**DATE**	4-18-22	**PROJECT NAME**	Island County Landfill
TEMP	49	**BARO**	29.37	**WIND**	5 MPH NE	**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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2		3.4 3.4	6.10''	SV LFG	3.4” 4.0”	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
38% Full	12					

SUMMARY	1235 SDG onsite to monitor the Probes.
1250 SDG calibrating the Gem - 5000	
1312 SDG monitoring the Probes.	
1654 Completed monitoring.	
1700 Post Calibration	
1715 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 4-18-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 5 MPH Wind Direction: NE Barometric Pressure: 29.37Hg

Air Temperature: 49 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. G504835

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

Time	CH4	CO2	O2
12:50	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
17:00	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	**TASK NO.**	1,2,3	**DATE**	4-19-22	**PROJECT NAME**	Island County Landfill
TEMP	49	**BARO**	29.61	**WIND**	5 MPH NE	**WEATHER**	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2	74469 7765	3.4 3.4	6.10"	SV LFG	3.4" 4.0"	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
38% Full	12					

SUMMARY	0745 SDG onsite to monitor the Probes, Extraction Wells
0810 SDG calibrating the Gem - 5000	
0837 SDG monitoring the Probes.	
1024 monitoring the Extraction Wells	
1215 Post Calibration	
1300 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 4-19-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 5 MPH Wind Direction: NE Barometric Pressure: 29.61Hg

Air Temperature: 49 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. G504835

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

Time	CH4	CO2	O2
08:10	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
12:15	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	6-1-22	PROJECT NAME	Island County Landfill
TEMP	64	BARO	29.81	WIND	4 MPH NE	WEATHER	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G504835	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	74508	3.4	5.85"	**SV**	**3.4"**	50% Open
Blower # 2	8025	3.4		**LFG**	**4.0"**	50% Open

Propane Tank Level	Propane Line PSI
28% Full	12

SUMMARY

0740 SDG onsite to monitor the Probes, Extraction Wells

0810 SDG calibrating the Gem - 5000

0841 SDG monitoring the Probes.

0946 Monitoring the Extraction Wells

1200 Post Calibration of the Gem - 5000

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 6-1-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 4 MPH Wind Direction: NE Barometric Pressure: 29.81Hg

Air Temperature: 64 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. G504835

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

Time	CH4	CO2	O2
08:10	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
12:00	50.0%	35.0%	20.9%

NOTES:

August 9, 2022
File No. 04222010.04

Subject: **Third Quarter 2022 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

NOTES/SAMPLE DECODING:

Event Dates: August 8 & 9, 2022
Field Staff: Sam Graber

- This was a quarterly monitoring event.
- A duplicate sample was collected from monitoring well N2D.
- The YSI Multiparameter meter was calibrated daily prior to sampling.
- Monitoring wells E2D and E4D were sampled for VOCs only.

Sample Date	Sample Number	Well ID
8/8/22	0822-01	E10D
8/8/22	0822-02	E9D
8/8/22	0822-03	E4D
8/8/22	0822-04	E5D
8/8/22	0822-05	E8D
8/8/22	0822-06	E6D
8/8/22	0822-07	E2D
8/9/22	0822-08	N2D
8/9/22	0822-09	N2D (Duplicate)
8/9/22	0822-10	E7D
8/9/22	0822-11	DNR
8/9/22	0822-12	WR1

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: E10D
Sample ID: 0822- 01
Date: 8/ 8 /22
Weather: Sunny

161.58 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 = 0.26 gallons

Refill 10 | One Well Volume (liters) | Other:
Discharge 10 | Flow Setting:
Pressure 100 | Total Volume Bailed (liters)
Flow 150 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.
1029		13.4	1034	10.65	7.75	224.7	5.01	
1033		11.6	1065	4.10	7.39	-97.3	5.12	
1036		11.3	1012	2.81	7.42	-92.6	4.95	
1039		11.2	962	1.90	7.45	-101.6	4.82	
1042		11.2	968	1.65	7.46	-101.9	4.65	
1045		11.2	970	1.45	7.46	-102.1	4.57	
1048		11.2	990	1.32	7.46	-101.2	4.47	
1051	161.70	11.1	1011	1.23	7.47	-102.6	4.42	

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

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

SAMPLER: Sam Gorbe
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: E9D
Sample ID: 0822- 02
Date: 8/ 8 /22
Weather: Sunny

160.26 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 = 0.26 gallons
Refill 9 One Well Volume (liters) Other:
Discharge 11 Flow Setting:
Pressure 105 Total Volume Bailed (liters)
Flow 150 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.
1131		13.4	562	9.29	7.67	91.2	5.66	
1136		12.6	551	6.41	7.80	34.8	11.33	
1139		12.4	551	4.91	8.15	12.6	10.22	
1141		12.2	551	3.47	8.37	-53.2	9.91	
1144		12.1	550	2.92	8.42	-68.9	8.29	
1148		12.1	548	2.35	8.39	-83.0	6.73	
1151	166.15	12.1	549	2.18	8.37	-87.5	6.46	

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

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

SAMPLER: Sam Gabler
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: E4D
Sample ID: 0822-03
Date: 8/8/22
Weather: Sunny

151.58 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 = 0.26 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.
1245		19.4	627	9.77	7.35	117.3	5.61	
1250		15.7	643	8.53	7.25	67.4	5.88	
1253		15.0	626	6.01	7.38	21.2	5.55	
1256		14.3	612	4.77	7.59	-35.9	5.34	
1259		14.2	591	3.61	7.72	-53.6	4.82	
1302		14.1	578	2.93	7.89	-71.8	4.41	
(1305)	151.57	14.1	569	2.50	7.98	-80.8	4.27	
1308		14.2	565	2.31	8.03	-89.7	4.36	

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

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 #: 04222010.04
Site: CSWF
Well ID: ESD
Sample ID: 0822- 04
Date: 8/ 8 /22
Weather: Sunny



143.22 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 = 0.26 gallons

Refill 10
Discharge 10
Pressure 10.5
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.
1330		16.5	1412	8.43	7.14	74.7	6.92	
1335		13.9	1328	3.00	7.35	-61.4	4.74	
1338		13.6	1331	2.15	7.35	-73.0	4.51	
1341		13.4	1336	1.71	7.35	-86.0	4.19	
1344		13.4	1351	1.50	7.34	-88.6	4.12	
1347		13.4	1372	1.36	7.33	-90.1	4.07	
1350		13.3	1389	1.25	7.32	-91.8	4.03	
1353		13.2	1404	1.15	7.31	-92.7	3.93	

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

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

SAMPLER: Sam Gruber
Printed Name

Signature

SCS ENGINEERS
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Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: E8D
Sample ID: 0822- 05
Date: 8/ 8 /22
Weather: Sunny

146.89 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 100 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1440		15.6	649	10.43	7.87	78.7	4.90	
1445		13.8	585	5.69	7.59	77.4	4.89	
1448		13.5	580	3.73	7.59	-5.8	4.73	
1451		13.3	576	2.66	7.59	-72.1	4.60	
1454		13.2	577	2.02	7.66	-101.2	4.44	
1457		13.1	578	1.70	7.72	-128.3	4.30	
1500	147.24	13.0	578	1.58	7.74	-134.7	4.46	

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

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: E6D
Sample ID: 0822- 06
Date: 8/ 8 /22
Weather: Sunny

146.15 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 = 0.26 gallons
Refill 9
Discharge 11
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.
1618		18.1	743	3.34	7.78	-97.2	7.53	
1623		17.3	748	1.73	7.79	-163.5	4.97	
1626		17.2	747	1.50	7.79	-166.9	4.80	
1629		17.2	747	1.38	7.79	-170.0	4.57	
1632		17.1	746	1.31	7.79	-171.9	4.58	
1635		17.1	746	1.21	7.79	-173.5	4.60	
1638		17.1	746	1.16	7.79	-174.6	4.57	

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

SAMPLER: Sam Gruver
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: E20
Sample ID: 0822- 07
Date: 8/ 8 /22
Weather: Sunny

146.14 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 = 0.26 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.
1725		23.2	1236	9.13	7.65	97.9	4.11	
1730		16.9	1444	9.69	7.40	115.3	3.90	
1733		16.5	1451	8.61	7.30	117.8	3.90	
1736		16.2	1460	8.00	7.20	119.9	3.88	
1739		16.1	1456	6.20	7.07	119.8	4.02	
1742		16.1	1453	5.11	6.98	119.8	4.16	
1745	146.18	16.3	1441	4.31	6.96	117.3	4.74	

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

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

SAMPLER: Sam Gruber
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: N2D
Sample ID: 0822- 08
Date: 8/ 9 /22
Weather: Cloudy



146.27 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 350 ml/min

1 ft water = 0.62L
1L = 0.26 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.
905		13.6	1216	2.29	6.87	*76.0	4.42	
910		13.5	1215	1.51	6.88	105.1	4.35	
913		13.4	1215	1.00	6.88	139.2	4.30	
916		13.5	1218	0.98	6.91	150.3	4.25	
919		13.5	1220	0.96	6.93	159.2	4.21	
922		13.5	1220	1.06	6.96	165.1	4.30	
925		13.5	1221	1.15	6.99	170.1	4.42	

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

Dup collected as 0822-09 @ 945

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 #: 04222010.04
Site: CSWF
Well ID: ETD
Sample ID: 0822- ● 10
Date: 8/ 9 /22
Weather: Cloudy

144.23 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 120 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1021		19.1	1571	7.17	7.29	209.7	4.94	
1026		16.6	1758	5.77	7.10	211.4	4.10	
1029		16.3	1871	3.01	6.90	215.4	4.02	
1032		16.1	1954	1.68	6.77	217.5	3.94	
1035		16.0	1959	1.41	6.74	216.9	3.97	
1038		15.8	1960	1.17	6.73	215.5	3.95	
1041	144.28	15.8	1958	1.08	6.73	214.5	3.91	

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

SAMPLER: Sam Brewer
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: DNR
Sample ID: 0822- 11
Date: 8/ 9 /22
Weather: cloudy

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 = 0.26 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.
1130	Turned pump on							
1140		13.1	0.95	2.34	7.42	91.7	1.71	

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

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

SAMPLER: Sam Brusa
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.04
Site: CSWF
Well ID: WR1
Sample ID: 0822- 12
Date: 8/ 9 /22
Weather: cloudy

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 = 0.26 gallons

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

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		Turned pump on						
1215		11.7	902	7.75	7.33	124.2	0.66	

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	8/8/22					
Time	930					
Weather (sky or precip, temp)	Sunny					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1431	4.05	6.99	8.00		
Post Cal Reading	1413	4.00	7.00	8.50		
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	SEB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / 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	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Date	8/9/22					
Time	815					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4.00	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1421	3.99	7.02	9.52		
Post Cal Reading	1413	4.00	7.00	8.50		
Descrepancy	No					
Calib. Successful?	Yes					
Calibration by	SEB					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / 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.	04207033.11	**TASK NO.**	1,2,3	**DATE**	7-6-22	**PROJECT NAME**	Island County Landfill
TEMP	65	**BARO**	29.64	**WIND**	1 MPH SW	**WEATHER**	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	**S/N**					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1		2.6	8.50’	**SV**	**2.6”**	50% Open
Blower # 2		3.8		**LFG**	**4.0”**	50% Open

Propane Tank Level	Propane Line PSI					
28% Full	12					

SUMMARY	1415 SDG onsite to monitor the Probes, Extraction Wells
1430 SDG calibrating the Gem-5000	
1443 SDG Monitoring	
1535 SDG Post Calibration of the Gem	
1600 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 7-6-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: SW Barometric Pressure: 29.64Hg

Air Temperature: 65 F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
14:30	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
15:35	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	7-7-22	PROJECT NAME	Island County Landfill
TEMP	60	BARO	29.64	WIND	1 MPH SW	WEATHER	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	74545	2.6	8.50’	**SV**	**2.6”**	50% Open
Blower # 2	8582	3.8		**LFG**	**4.0”**	50% Open

Propane Tank Level	Propane Line PSI
28% Full	12

SUMMARY

0650 SDG onsite to monitor the Probes, Extraction Wells

0705 SDG calibrating the Gem - 5000

0721 SDG monitoring the Probes.

1017 Monitoring the Extraction Wells

1408 SDG Completed monitoring for the day.

1415 Post Calibration.

1435 SDG offsite

Note: ¼” Ball Valves Sample Ports installed on all Extraction Wells.

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 7-7-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: SW Barometric Pressure: 29.64Hg

Air Temperature: 60 F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
07:05	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
14:15	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	7-8-22	PROJECT NAME	Island County Landfill
TEMP	60	BARO	29.78	WIND	2 MPH S	WEATHER	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 **Blower # 2**		2.6 3.8	8.50’	**SV** **LFG**	**2.6”** **4.0”**	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
28% Full	12					

SUMMARY	0630 SDG onsite to monitor the Probes, Extraction Wells
0645 SDG calibrating the Gem-5000	
0701 SDG Monitoring	
0800 SDG Post Calibration of the Gem	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 7-8-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 2 MPH Wind Direction: SW Barometric Pressure: 29.78Hg

Air Temperature: 60 F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
06:45	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
08:00	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	8-17-22	PROJECT NAME	Island County Landfill
TEMP	70	BARO	29.90	WIND	1 MPH N	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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	74583	2.6	8.50’	SV	2.8”	50% Open
Blower # 2	8829	3.8		LFG	4.0”	50% Open

Propane Tank Level	Propane Line PSI					
25% Full	12					

SUMMARY	0630 SDG onsite to monitor the Probes, Extraction Wells
0710 SDG calibrating the Gem-5000	
0735 SDG Monitoring	
1000 SDG Post Calibration of the Gem	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 8-17-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: N Barometric Pressure: 29.90Hg

Air Temperature: 70 F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
07:10	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
10:00	50.0%	35.0%	20.9%

NOTES:

October 28, 2022
File No. 04222010.05

Subject: **Fourth Quarter 2022 Groundwater Monitoring Event**
Coupeville Solid Waste Facility, Island County, Washington

NOTES/SAMPLE DECODING:

Event Dates: October 25-27, 2022
Field Staff: Jovany Estrada & Ruben Martinez

- This was a semi-annual monitoring event.
- Duplicate samples were collected from monitoring wells N2D and N3D.
- YSI Multiparameter meters were calibrated daily prior to sampling.
- Monitoring well E1D was not sampled as replacement pump was broken upon arrival.

Sample Date	Sample Number	Well ID
10/25/22	1022-01	D0T
10/25/22	1022-02	E3D
10/25/22	1022-03	E5D
10/27/22	1022-04	E6D
10/27/22	1022-05	E7D
10/26/22	1022-06	E8D
10/25/22	1022-07	E4S
10/25/22	1022-08	E4D
10/25/22	1022-09	NE1S
10/25/22	1022-10	NE1D
10/27/22	1022-11	N5D
10/26/22	1022-12	S11D
10/26/22	1022-13	S11S
10/25/22	1022-14	S10S
10/27/22	1022-15	DNR
10/26/22	1022-16	N1D
10/26/22	1022-17	N2D
10/26/22	1022-18	N2S
10/26/22	1022-19	N3D
10/26/22	1022-20	N3S
10/27/22	1022-21	E2D
10/27/22	1022-22	E2S
10/26/22	1022-23	E1D
10/26/22	1022-24	E1S

10/27/22	1022-25	WR1
10/26/22	1022-26	E9D
10/25/22	1022-27	E10D
10/26/22	1022-28	N2D (Duplicate)
10/26/22	1022-29	N3D (Duplicate)

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: DOT
Sample ID: 1022- 01
Date: 10/25/2022
Weather: cloudy

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 = 0.26 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.
1540		12.86	722	1.79	7.78	-161.8	1.58	

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

WM= 022632

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

SAMPLER: R. Montinez
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E3D
Sample ID: 1022- 02
Date: 10/25 /2022
Weather: Cloudy

149.00 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 11
Discharge 9
Pressure 100
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1320		13.36	660	10.00	7.86	39.0		
1325		11.41	722	8.52	7.58	56.1		
1328		11.32	723	6.00	7.45	55.4		
1331		11.24	722	3.20	7.56	40.1		
1334		11.19	722	2.18	7.62	5.7		
1337		11.16	722	1.83	7.65	-13.3		
1340	149.0	11.15	721	1.73	7.66	-19.6	0.16	

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

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

SAMPLER: R. Mankins
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ESD
Sample ID: 1022- 03
Date: 10/25/2022
Weather: Cloudy

143.25 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 10S
Flow 150 mL/min

1 ft water = 0.62L
1L = 0.26 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.
1420		11.95	1325	7.65	7.41	94.2		
1425		12.01	1303	2.93	7.32	-10.2		
1428		12.03	1291	2.53	7.21	-53.9		
1431		11.99	1264	1.82	6.99	-75.7		
1434		11.99	1277	1.60	7.14	-89.8		
1437		11.99	1289	1.47	7.14	-92.7		
1440	143.81	11.99	1301	1.39	7.14	-94.4	0.62	

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

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

SAMPLER: R. Mantilla
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E6D
Sample ID: 1022- 04
Date: 10/27/2022
Weather: Cloudy

146.20 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 150 mL/min

1 ft water = 0.62L 1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1010		15.24	684	17.00	7.55	25.4		
1015		14.98	703	2.03	7.57	-163.8		
1018		14.99	705	1.79	7.57	-167.4		
1021		14.96	705	1.68	7.55	-169.6		
1024		14.97	705	1.56	7.55	-171.7		
1027		14.99	705	1.41	7.54	-174.4		
1030	147.72	15.00	704	1.36	7.55	-175.2	0.81	

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

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

SAMPLER: R. Martinez (Printed Name)
Signature 11-1-22

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ETD
Sample ID: 1022- 05
Date: 10/27/2022
Weather: Sunny

144.15 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 = 0.26 gallons

Refill	10	One Well Volume (liters)	Other:
Discharge	10		Flow Setting:
Pressure	100	Total Volume Bailed (liters)	
Flow	150 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.
1200		16.32	1423	6.00	7.14	25.7		
1205		15.08	1746	3.20	6.92	38.7		
1208		14.97	1836	1.51	6.67	40.8		
1211		14.93	1841	1.18	6.65	40.9		
1214		14.92	1842	1.12	6.63	40.7		
1217		14.92	1841	1.10	6.65	40.4		
1220	144.22	14.89	1840	1.06	6.62	40.3		

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

DTW N45 = 121.87

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

SAMPLER: R. Mantinette (Printed Name) (Signature)

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: F8D
Sample ID: 1022- 06
Date: 10/ 6/2022
Weather: Cloudy

147.20 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 15
Flow 100 mL/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1040		11.05	551	8.94	7.95	96.7		
1045		10.75	541	7.86	7.78	94.8		
1048		10.75	539	4.11	7.44	83.7		
1051		10.79	538	2.84	7.39	33.3		
1054		10.83	540	1.57	7.42	-115.3		
1057		10.83	541	1.35	7.46	-133.6		
1100	147.37	10.84	541	1.21	7.50	~~103~~ -144	01.26	

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

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: EYS
Sample ID: 1022-EYS
Date: 10/25/2022
Weather: Cloudy

140.5 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 40/2
Discharge 8
Pressure 50
Flow 200 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1200	140.5	11.3	740	9.52	7.49	189.7	2.59	
1205		10.8	1073	4.42	7.08	262	3.33	
1208		10.8	1145	3.00	7.12	200.9	4.61	
1211		10.7	1164	2.57	7.14	200.7	5.83	
1214		10.7	1172	2.37	7.14	200.8	9.10	
1217		10.8	1185	2.12	7.14	200.3	13.80	
1220	140.8	10.8	1188	2.15	7.14	199.7	16.81	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E4D
Sample ID: 1022- 08
Date: 10/25/2022
Weather: cloudy

151.70 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 105
Flow 125mL/min
1 ft water = 0.62L
1L = 0.26 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.
1150		11.64	536	40.00	7.57	60.4		
1155		11.52	528	16.00	7.48	0.23		
1158		11.23	527	3.67	7.44	-24.4		
1201		11.17	516	2.38	7.79	-74.0		
1204		11.16	519	2.04	7.88	-89.2		
1207		11.15	527	1.91	7.90	-96.1		
(1210)	151.81	11.15	529	1.88	7.90	-95.1	1.13	
1213		11.14	526	1.79	7.89	-102.0		

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

SAMPLER: R. Martinez
Printed Name
Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: NE1S
Sample ID: 1022-09
Date: 10/25/2022
Weather: Cloudy

143.4 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 = 0.26 gallons

Refill 10
Discharge 10
Pressure 105
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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1420	143.4	14.8	629	9.29	7.82	149.8	2.79	
1425		13.7	853	7.73	7.27	164.4	2.83	
1428		13.5	863	7.29	7.24	166.0	2.84	
1431		13.4	866	7.13	7.24	167.8	2.81	
1434		13.4	868	7.07	7.25	169.4	2.67	
1437		13.3	868	7.04	7.25	171.2	2.75	
1440	144.43	13.3	869	7.03	7.25	172.3	2.74	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: NE1D
Sample ID: 1022-10
Date: 10/25/2022
Weather: Cloudy

156.27 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 105
Flow 125 ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
~~1305~~ 1305	156.27	15.4	658	8.18	7.12	190.1	2.73	
1310		14.6	644	6.28	7.31	185.1	2.72	
1313		14.0	634	3.54	7.52	171.7	3.19	
1316		13.9	629	2.83	7.56	158.0	3.11	
1319		13.9	628	2.46	7.58	138.8	3.16	
1322		13.8	627	2.20	7.60	115.2	3.34	
1325	156.41	13.8	627	2.00	7.61	94.2	3.39	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: NSD
Sample ID: 1022-~~09~~11
Date: 10/27/2022
Weather: cloudy

148.58 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 105
Flow 125ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
0900	148.58	10.6	1279	3.11	7.20	198.6	2.52	
0905		10.6	1294	2.64	7.19	197.2	2.52	
0908		10.6	1317	2.13	7.20	193.8	2.57	
0911		10.6	1328	1.81	7.21	190.1	2.54	
0914		10.6	1332	1.55	7.23	185.6	2.55	
0917		10.6	1332	1.46	7.24	183.5	2.55	
0920	147.5	10.6	1332	1.38	7.25	181.3	2.60	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: S11D
Sample ID: 1022- 12
Date: 10/26/2022
Weather: cloudy

144.70 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 = 0.26 gallons

Refill: 10
Discharge: 10
Pressure: 100
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):
by campground #9

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1300		10.39	850	7.36	8.01	80.1		
1305		10.35	862	3.42	8.06	-10.3		
1308		10.30	871	1.52	7.59	-34.4		
1311		10.29	873	1.20	7.60	-65.7		
1314		10.28	877	1.03	7.63	-88.1		
1317		10.27	878	1.00	7.63	-89.9		
1320	146.32	10.23	877	0.97	7.64	-90.5	2.26	

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ~~S13~~ S11S
Sample ID: 1022- ~~14~~ 13
Date: 10/26/2022
Weather: cloudy

133.65 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 80
Flow 203 mL/min

1 ft water = 0.62L
1L = 0.26 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):

by campground #9
needs lock
~~1220~~ 1226 or 3501

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
~~1220~~								
~~1220~~		10.50	870	7.96	7.60	70.2		
1225		10.23	877	1.20	7.57	-74.7		
1228		10.23	876	0.98	7.58	-76.4		
1231		10.21	875	0.86	7.58	-76.5		
1234		10.22	875	0.80	7.58	-76.5		
1237		10.21	874	0.74	7.58	-76.4		
1240	134.63	10.21	874	0.73	7.58	-76.3	0.24	

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: 5105
Sample ID: 1022- 14
Date: 10/25/2022
Weather: cloudy

134.95 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 9.5
Discharge 5.5
Pressure 80
Flow 200mL/min

1 ft water = 0.62L 1L = 0.26 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.
0935		14.62	882	5.97	7.05	157.1		
0940		14.41	1107	2.89	6.88	102.4		
0943		14.32	1111	2.64	6.86	87.3		
0946		14.30	1114	2.60	6.85	79.7		
0949		14.28	1115	2.57	6.84	74.4		
0952		14.28	1115	2.53	6.84	71.3		
0955	135.10	14.27	1114	2.46	6.83	67.2	0.79	

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

SAMPLER: R. Mendiola (Printed Name)
Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: DNR
Sample ID: 1022- 15
Date: ~~10/26/2022~~ 10-27-22
Weather: Cloudy

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 = 0.26 gallons

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

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		11.49	841	3.50	7.28	11.8	0.71	

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

SAMPLER: R. Martinez
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: MW-16
Sample ID: 1022-16
Date: 10/26/2022
Weather: Cloudy

134.37 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 85
Flow 300 ml/min
1 ft water = 0.62L
1L = 0.26 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.
1415	134.37	14.3	1114	7.39	8.07	138.7	3.52	
1420		12.9	1344	7.65	7.75	153.8	2.92	
1426		↓	↓	↓	↓	↓	↓	
1423		12.6	1369	7.04	7.58	161.0	2.98	
1426		12.5	1372	6.08	7.48	163.5	2.94	
1429		12.4	1374	4.84	7.34	101.0	2.99	
1432		12.3	1371	3.54	7.29	18.1	3.01	
1435	135.38	12.3	1369	2.93	7.27	-0.1	2.96	

Notes / Observations (color, odor, anomalies, etc):
yellow jacket nest in wellhead. dormant at the moment

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: N2D
Sample ID: 1022-19
Date: 10/26/2022
Weather: Cloudy

146.27 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 85
Flow 300 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1225	146.27	13.8	1154	7.07	7.43	171.7	3.11	
1230		13.2	1137	1.55	7.02	175.3	3.84	
1233		13.2	1134	1.24	7.02	173.0	3.42	
1236		13.1	1138	1.09	7.02	170.5	3.13	
1239		13.1	1140	1.01	7.01	168.6	3.06	
1242		13.0	1142	0.94	7.01	166.4	2.96	
1245	146.26	13.1	1142	0.90	7.01	164.4	2.94	
1245								

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

Duplicate taken @ 1305
1622-28

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

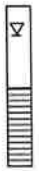
SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: N25
Sample ID: 1022- 18
Date: 10/26/2022
Weather: cloudy



134.80 DTW
TOS
Intake
BOS
Total Depth

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

CONTROL SETTINGS:
Refill 10
Discharge 5
Pressure 90
Flow 200 ml/min

1 ft water = 0.62L
1L = 0.26 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 HNO3 x2
125 ml NaOH
500 ml Poly
500 ml H2SO4 x2
250 ml Poly
40 ml VOA x3 x6
125 ml Poly
1000 ml Amber

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

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1120	134.80	14.2	879	7.21	7.55	159.4	2.98	
1125	"	13.0	1315	4.14	6.91	181.8	3.10	
1128		12.9	1324	3.50	6.90	182.9	3.05	
1131		12.9	1329	3.01	6.90	183.2	3.06	
1134		12.9	1333	2.69	6.90	183.1	3.03	
1137		12.9	1336	2.56	6.90	182.9	3.04	
1140	134.75	12.9	1335	2.37	6.90	182.5	3.01	

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ~~MW~~ N3D
Sample ID: 1022- 19
Date: 10/26/2022
Weather: Cloudy

148.38 DTW
TOS
Intake
BOS
Total Depth

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

Meter: MP-20 YSI

CONTROL SETTINGS:
Refill 8
Discharge 7
Pressure 80
Flow 400 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1000	148.38	13.8	629	6.67	7.33	137.8	2.99	
1005		13.4	630	5.39	6.64	166.0	2.91	
1008		13.3	629	5.36	6.66	168.9	2.95	
1011		13.1	628	4.24	6.78	169.0	2.95	
1014		13.0	634	3.63	6.87	167.0	2.95	
1017		13.0	643	3.11	6.94	164.8	3.00	
1020	148.4	12.9	650	2.70	7.04	160.4	2.98	

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

Duplicate 1022-29 taken @ 1035

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: ~~MW~~ XXS N3D
Sample ID: 1022- 23
Date: 10/26/2022
Weather: Cloudy

138.75 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 = 0.26 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.
907	138.75	12.7	911	5.55	6.91	224.5	7.67	
912		12.3	996	4.78	7.04	214.5	8.68	
915		12.3	989	5.13	7.09	209.9	9.99	
918		12.3	982	5.51	7.13	206.5	10.28	
921		12.2	980	5.58	7.14	205.0	9.90	
924		12.2	979	5.61	7.14	204.3	9.50	
927	136.87	12.2	980	5.67	7.15	203.4	7.48	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E2D
Sample ID: 1022- 21
Date: 10/27/2022
Weather: partly cloudy

146.12 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 = 0.26 gallons
Refill 10 One Well Volume (liters) Other:
Discharge 10 Flow Setting:
Pressure 105 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.
1115	146.12	14.3	1105	7.78	7.45	174.3	2.73	
1120		12.7	1345	3.52	6.85	190.1	3.06	
1123		12.7	1325	2.53	6.81	185.8	2.75	
1126		12.7	1321	2.17	6.80	186.9	3.38	
1129		12.7	1334	1.90	6.80	184.6	3.55	
1132		12.7	1344	1.80	6.79	183.0	3.76	
1135	146.12	12.7	1349	1.67	6.80	181.4	5.43	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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Bellevue, WA 98005 (425) 746-4600

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E2S
Sample ID: 1022-22
Date: 10/27/2022
Weather: partly cloudy

13632 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 400 ml/min

1 ft water = 0.62L
1L = 0.26 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.
1030	136.32	12.6	1245	2.08	6.84	180.2	2.76	
1035		12.6	1238	1.05	6.84	177.4	2.64	
1038		12.6	1238	1.06	6.84	175.8	2.63	
1041		12.6	1237	1.01	6.85	173.7	2.68	
1044		12.6	1237	0.93	6.85	172.5	2.66	
1047		12.6	1236	0.88	6.86	171.4	2.64	
1050	136.43	12.6	1237	0.92	6.86	169.9	2.69	

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

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: EID
Sample ID: 1022- 23
Date: 10/26/2022
Weather: Cloudy

13673 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 55
Flow 300 mL/min

1 ft water = 0.62L
1L = 0.26 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.

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

Not sampled
Pump to be installed was broken upon arrival
↳ if need to sample, bring deployable and enough tubing for each spool

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

SAMPLER: R. Montague
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E15
Sample ID: 1022-24
Date: 10/26/2022
Weather: Cloudy

136.95 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 = 0.26 gallons

Refill 12.5
Discharge 7.5
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):

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.
1555	136.95	11.7	1082	7.50	7.42	131.2	2.77	
1600		11.3	1068	6.25	7.01	140.3	3.84	
1603		11.3	1064	6.22	7.01	142.1	3.32	
1606		11.3	1064	6.16	7.00	145.0	3.15	
1609		11.3	1066	6.15	7.00	148.1	3.01	
1612		11.3	1067	6.13	7.00	151.8	2.90	
1615	136.85	11.3	1068	6.12	7.00	153.3	2.89	

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

SAMPLER: Jovanny Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: WR1
Sample ID: 1022- 25
Date: 10/27/2022
Weather: Cloudy

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 = 0.26 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.
0920		11.07	847	4.63	7.18	93.1	0.26	

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

10 min purge

located @ residence
20378 driveway
w/ green mail box

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

SAMPLER: R. Martinez
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E9b
Sample ID: 1022-~~E9b~~ ~~E6b~~ 26
Date: 10/~~26~~/2022
Weather: Cloudy

160.10 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 125 ml/min
1 ft water = 0.62L
1L = 0.26 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.
~~0756~~ 1000	160.1	11.2	514	9.67	7.5	230	13.6	
1005		10.8	513	9.52	7.56	229.1	0.38	
1008		10.7	914	9.48	7.55	228.8		
1011		10.6	515	9.44	7.54	229.0		
1014		10.5	515	9.39	7.52	228.8		
1017		10.5	514	9.06	7.52	~~259~~ 229.1		
1020	166.69	10.6	514	8.66	7.52	227.2	0.35	

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

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

SAMPLER: Jovanny Estrada
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: E10D
Sample ID: 1022-27
Date: 10/25/2022
Weather: cloudy

160.78 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 = 0.26 gallons

Refill: 10
Discharge: 10
Pressure: 100
Flow: 150 mL/m

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

Filtered? (Y) N
Locked? (Y) N 350;
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.
1030		10.71	1000	13.00	6.97	139.8		
1035		10.45	988	6.23	7.00	13.2		
1038		~~45~~ 10.3	951	4.44	7.32	-77.4		
1041		10.35	917	3.64	7.33	-87.9		
1044		10.36	910	3.23	7.35	-93.6		
1047		10.36	911	2.90	7.37	-97.0		
1050	161.63	10.34	914	2.55	7.37	-100.8	0.28	

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

SAMPLER: R. Montpree
Printed Name

Signature

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

Groundwater Sampling Data Sheet

Project #: 04222010.00
Site: Coupeville Solid Waste Facility
Well ID: WIS
Sample ID: 1022-
Date: 10/ /2022
Weather: Cloudy

109.67 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 = 0.26 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):

WL Only

TIME	DTW	Temp.	Sp.Cond.	DO	pH	Eh	Turbidity	Q / Vol.

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

SAMPLER: Jovany Estrada
Printed Name

Signature

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GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

	Conductivity	pH4	pH 7	DO	Turbidity	Comments/Exceptions
Date	10/25/2022					
Time	8:16 AM					
Weather (sky or precip, temp)	Cloudy 46°					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~.445~~	4 ~~4.01~~	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1426	4.05	7.10	8.51	0.1	
Post Cal Reading	1413	4.00	7.0	8.50	0.1	
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	Jovany Estrada					
Instrument Type, ID	MP20 / (YSI 556)				MicoTPW / HACH2000	
Calibration Location	LF office					

* 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

Date	10/25/22					
Time	0815					
Weather (sky or precip, temp)	Cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1397	4.17	7.01	7.19	----	
Post Cal Reading	1413	4.00	7.00	8.5	----	
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	R. Montimer					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CSWF shop					

* 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	10/26/22					
Time	0520					
Weather (sky or precip, temp)	Cloudy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	~~4.00~~ 4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1422	4.09	7.15	10.89		
Post Cal Reading	1413	4.00	7.00	8.47		
Descrepancy	No					
Calib. Successful?	yes					
Calibration by	Jovany Estrada					
Instrument Type, ID	MP20 / (YSI 556)				MicoTPW / HACH2000	
Calibration Location	LF Office					

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	10/26/22					
Time	0756					
Weather (sky or precip, temp)	Cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1419	3.96	6.98	9.30		
Post Cal Reading	1413	4.00	7.09	8.50		
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	R. Montinez					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CSWF machine shop					

* 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	10/27/2022					
Time	0810					
Weather (sky or precip, temp)	Cloudy, windy					
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413 ~~445~~	4 4.01	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1403	3.92	6.96	7.50		
Post Cal Reading	1413	4.00		8.5		
Descrepancy	No					
Calib. Successful?	YES					
Calibration by	Jovanny Estrada					
Instrument Type, ID	MP20 / YSI 556				MicoTPW / HACH2000	
Calibration Location	Office					

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

SCS ENGINEERS

GROUNDWATER SAMPLING INSTRUMENT CALIBRATION DOCUMENTATION FORM

Date	10-27-22					
Time	0800					
Weather (sky or precip, temp)	cloudy					
Parameter	Conductivity	pH 4	pH 7	D.O.	Turbidity	Comments/Exceptions
Type of Calibration	Standard	Standard	Standard	Standard	Standard	
Standard Value	1413	4	7.00	100% or ~8.5	1000, 10, 0.2 800, 100, 20, <0.1	
Pre-Cal Reading	1410	3.99	7.01	6.58		
Post Cal Reading	1413	4.00	7.00	8.0		
Descrepancy	no					
Calib. Successful?	yes					
Calibration by	R. Mantime E					
Instrument Type, ID	YSI Pro DDS / YSI 556 / Rental				YSI Pro DDS / HACH2000	
Calibration Location	CSWF machine shop					

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

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	10-17-22	PROJECT NAME	Island County Landfill
TEMP	63	BARO	29.91	WIND	3 MPH SE	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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1	74638	2.6	9.50’	**SV**	**2.6”**	50% Open
Blower # 2	9200	3.4		**LFG**	**4.0”**	50% Open

Propane Tank Level	Propane Line PSI
28% Full	12

SUMMARY

0740 SDG onsite to monitor the Probes, Extraction Wells

0800 SDG calibrating the Gem-5000

0815 SDG Monitoring

1230 SDG completed monitoring the day.

1245 Post Calibration of Gem.

1300 SDG offsite

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 10-17-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 3 MPH Wind Direction: SE Barometric Pressure: 29.91Hg

Air Temperature: 63 F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
08:00	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
12:45	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	10-18-22	PROJECT NAME	Island County Landfill
TEMP	53	BARO	29.88	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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 Blower # 2		2.6 3.4	9.50’	SV LFG	2.6” 4.0”	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
28% Full	12					

SUMMARY	0730 SDG onsite to monitor the Probes, make Extraction Well Adjusments
0745 SDG calibrating the Gem-5000	
0806 SDG Monitoring	
0943 SDG completed monitoring the day.	
1000 Extraction Well Adjustments	
1030 Post Calibration of Gem.	
1100 SDG offsite	

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 10-18-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 1 MPH Wind Direction: E Barometric Pressure: 29.88Hg

Air Temperature: 53 F General Weather Conditions: Clear

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
07:45	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
10:30	50.0%	35.0%	20.9%

NOTES:

SCS FIELD SERVICES

DAILY LOG

JOB NO.	04207033.11	TASK NO.	1,2,3	DATE	12-8-22	PROJECT NAME	Island County Landfill
TEMP	46	BARO	29.63	WIND	9 MPH SW	WEATHER	Overcast

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 - 5000	1	$185.00 Daily	SCS Field Service	1	$185.00

INSTRUMENT CALIBRATION (CAL. GAS)		CH4 (%-VOL)	02 (%-VOL)	CO2 (%-VOL)		
MODEL	S/N					
Gem – 5000	G505292	50%	20.9%	35.0%		

Flare Station	Hours	Amps	Condensate Trap Level	Header	Capsuhelic Gauge	Valve Position
Blower # 1 **Blower # 2**		2.6 4.2	9.50’	**SV** **LFG**	**2.6”** **4.2”**	50% Open 50% Open

Propane Tank Level	Propane Line PSI					
28% Full	12					

SUMMARY 0935SDG onsite to monitor the Probes, and the Extraction Wells.

1000 SDG calibrating the Gem-5000

1015 SDG Monitoring the Probes, Wells

1229 SDG completed monitoring.

1400 Making Adjustments.

1- Decreased to close the following wells. VGW-7, VGW-8

1430 Post Calibration of the Gem - 5000

PREPARED BY: Simon Garibaldo ACCEPTED BY: _____

LANDFILL GAS MONITORING
GEM 5000 CALIBRATION AND PERTINENT DATA

Date: 12-8-22 Site Name: Island County Landfill

Technician: Simon Garibaldo Job No.04207033.11

WEATHER OBSERVATIONS

Wind Speed: 9 MPH Wind Direction: W Barometric Pressure: 29.63Hg

Air Temperature: 46 F General Weather Conditions: Overcast

CALIBRATION INFORMATION

Pre-monitoring Calibration Precision Check

Procedure: Calibrate the instrument. Make 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. G504835

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

Time	CH4	CO2	O2
10:00	50.0%	35.0%	20.9%

Post-monitoring Calibration Check

Time	CH4	CO2	O2
14:30	50.0%	35.0%	20.9%

NOTES:

Appendix B

2022 Analytical Data Validation & Laboratory Reports

FIRST QTR. 2022 DATA VALIDATION REPORT – ISLAND CO. CSWF

Project Details

Project No.	04222010.00	**Site Name**	Island County Coupeville SWF
Data Validator	Ruben Martinez	**Data Level**	Level 2
Date	3/14/21	**DV Tier**	Tier 1
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)
580-109688-1	No comments.	Eurofins TestAmerica, Seattle – Tacoma, WA

Analytical Summary

Sample Group	Analyses					
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC
580-109688-1	X	X	X	X	X	X

Notes:

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
GC/MS VOA	Acceptable	See case narrative for additional details.
Metals	Acceptable	See case narrative for additional details.
General Chemistry	Acceptable	See case narrative for additional details.
VOA Prep	Acceptable	See case narrative for additional details.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates	580-109688-1	N/A	See detailed results below.
Trip Blank	580-109688-1	Carbon Disulfide (0.49 ug/L)	

Lab Quality Flags

Lab Qualifiers	Description	Lab Group
F1	MS and/or MSD Recovery is outside acceptance limits.	580-109688-1
*+	LCS and/or LCSD is outside acceptance limits, high biased.	580-109688-1

Field Duplicate Evaluation

Analyte	Units	N2D	N2D (Dup)	RPD (%)
Alkalinity	mg/L	410	420	2.41
Arsenic	mg/L	0.0029	0.003	3.39
Barium	mg/L	0.029	0.028	3.51
Bicarbonate	mg/L	410	420	2.41
Calcium	mg/L	110	100	9.52
Chloride	mg/L	70	70	0.00
Magnesium	mg/L	69	68	1.46
Nickel	mg/L	0.0043	0.0045	4.55
Nitrate/Nitrite, Total	mg/L	3.6	3.7	2.74
Potassium	mg/L	8.1	8	1.24
Sodium	mg/L	40	40	0.00
Sulfate	mg/L	70	69	1.44
Total Dissolved Solids	mg/L	670	650	3.03
Total Organic Carbon	mg/L	2.2	2.3	4.44
Trichlorofluoromethane	mg/L	0.89	0.93	4.40

* RPD based on result as compared to the Reporting Limit (RL) for a non-detection in the compared sample

U = Result was not detected at or above a concentration greater than the RL. Value provided is the RL for the given sample.

N/A = Not applicable. Both results compared were non-detect.

Additional Data Flags

Flag	Description
U	Not detected above the method reporting limit.

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-109688-1
Client Project/Site: Coupeville SW Facility GW Q1 2022
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Sam Graber

Authorized for release by:
4/8/2022 4:08:24 PM

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@et.eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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: 580-109688-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-109688-1

Comments
This report has been revised to report dissolved iron instead of total iron.

Receipt
The samples were received on 1/27/2022 8:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.1º C, 4.0º C, 4.6º C and 5.5º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 580-380144 recovered above the upper control limit for 1,2-Dibromo-3-Chloropropane, Bromomethane, Chloroethane, Chloromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 0122-01 (580-109688-1), 0122-02 (580-109688-2), 0122-03 (580-109688-3) and (CCVIS 580-380144/3).

Method 8260D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-380144 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, Chloroethane and Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0122-06 (580-109688-6). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-380250 recovered above the upper control limit for 1,2-Dibromo-3-Chloropropane, Bromoform, Bromomethane, Chloroethane, Chloromethane, Methyl tert-butyl ether and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 0122-04 (580-109688-4), 0122-05 (580-109688-5), 0122-06 (580-109688-6), 0122-07 (580-109688-7), 0122-08 (580-109688-8), 0122-09 (580-109688-9), 0122-10 (580-109688-10), 0122-11 (580-109688-11), 0122-12 (580-109688-12), TRIP BLANK (580-109688-13) and (CCVIS 580-380250/3).

Method 8260D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 580-380250 recovered outside control limits for the following analytes: Chloroethane and Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0122-06 (580-109688-6). 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
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-379833 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 350.1: The matrix spike (MS) recovery for preparation batch 580-379679 and analytical batch 580-379719 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 350.1: The matrix spike duplicate (MSD) recovery for preparation batch 580-380412 and analytical batch 580-380427 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 580-109688-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

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

VOA 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 and/or LCSD is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-01
Date Collected: 01/26/22 10:30
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/02/22 21:56	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/02/22 21:56	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/02/22 21:56	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/02/22 21:56	1
1,1-Dichloroethane	ND		0.20		ug/L			02/02/22 21:56	1
1,1-Dichloroethene	ND		0.20		ug/L			02/02/22 21:56	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/02/22 21:56	1
1,2-Dibromo-3-Chloropropane	ND	*+	2.0		ug/L			02/02/22 21:56	1
1,2-Dibromoethane	ND		0.10		ug/L			02/02/22 21:56	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/02/22 21:56	1
1,2-Dichloroethane	ND		0.20		ug/L			02/02/22 21:56	1
1,2-Dichloropropane	ND		0.20		ug/L			02/02/22 21:56	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/02/22 21:56	1
2-Butanone	ND		10		ug/L			02/02/22 21:56	1
2-Hexanone	ND		3.0		ug/L			02/02/22 21:56	1
4-Methyl-2-pentanone	ND		10		ug/L			02/02/22 21:56	1
Acetone	ND		10		ug/L			02/02/22 21:56	1
Acrylonitrile	ND		10		ug/L			02/02/22 21:56	1
Benzene	ND		0.20		ug/L			02/02/22 21:56	1
Bromochloromethane	ND		0.20		ug/L			02/02/22 21:56	1
Bromodichloromethane	ND		0.20		ug/L			02/02/22 21:56	1
Bromoform	ND		0.50		ug/L			02/02/22 21:56	1
Bromomethane	ND		0.50		ug/L			02/02/22 21:56	1
Carbon disulfide	ND		0.30		ug/L			02/02/22 21:56	1
Carbon tetrachloride	ND		0.20		ug/L			02/02/22 21:56	1
Chlorobenzene	ND		0.20		ug/L			02/02/22 21:56	1
Chloroethane	ND	*+	0.50		ug/L			02/02/22 21:56	1
Chloroform	ND		0.20		ug/L			02/02/22 21:56	1
Chloromethane	ND	*+	0.50		ug/L			02/02/22 21:56	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 21:56	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 21:56	1
Dibromochloromethane	ND		0.20		ug/L			02/02/22 21:56	1
Dibromomethane	ND		0.20		ug/L			02/02/22 21:56	1
Ethylbenzene	ND		0.20		ug/L			02/02/22 21:56	1
m,p-Xylene	ND		0.50		ug/L			02/02/22 21:56	1
Methyl iodide	ND		0.50		ug/L			02/02/22 21:56	1
Methylene Chloride	ND		5.0		ug/L			02/02/22 21:56	1
o-Xylene	ND		0.50		ug/L			02/02/22 21:56	1
Styrene	ND		1.0		ug/L			02/02/22 21:56	1
Tetrachloroethene	ND		0.50		ug/L			02/02/22 21:56	1
Toluene	ND		0.20		ug/L			02/02/22 21:56	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 21:56	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 21:56	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/02/22 21:56	1
Trichloroethene	ND		0.20		ug/L			02/02/22 21:56	1
Trichlorofluoromethane	**0.89**		0.50		ug/L			02/02/22 21:56	1
Vinyl acetate	ND		2.0		ug/L			02/02/22 21:56	1
Vinyl chloride	ND		0.020		ug/L			02/02/22 21:56	1

Client Sample ID: 0122-01

Date Collected: 01/26/22 10:30
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*02/02/22 21:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/02/22 21:56*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*02/02/22 21:56*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/02/22 21:56*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		02/01/22 18:27	02/02/22 17:33	1
Magnesium	**69**		0.50		mg/L		02/01/22 18:27	02/02/22 17:33	1
Manganese	ND		0.020		mg/L		02/01/22 18:27	02/02/22 17:33	1
Potassium	**8.1**		3.3		mg/L		02/01/22 18:27	02/02/22 17:33	1
Sodium	**40**		0.50		mg/L		02/01/22 18:27	02/02/22 17:33	1
Iron	ND		0.50		mg/L		02/01/22 18:27	02/02/22 17:33	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0029**		0.0010		mg/L		02/03/22 19:09	02/04/22 13:20	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:20	1
Barium	**0.029**		0.0012		mg/L		02/03/22 19:09	02/04/22 13:20	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:20	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:20	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:20	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:20	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 13:20	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:20	1
Nickel	**0.0043**		0.0030		mg/L		02/03/22 19:09	02/04/22 13:20	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 13:20	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:20	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 13:20	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 13:20	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 15:19	1
Nitrate Nitrite as N	**3.6**		0.40		mg/L			01/27/22 15:19	1
Chloride	**70**	**F1**	1.5		mg/L			01/27/22 15:19	1
Sulfate	**70**	**F1**	1.5		mg/L			01/27/22 15:19	1
Ammonia	ND		0.50		mg/L		01/28/22 16:27	01/28/22 22:27	1
Carbon, Total Organic	**2.2**		0.50		mg/L			01/29/22 14:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**410**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**410**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**670**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-02
Date Collected: 01/26/22 10:30
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/02/22 22:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/02/22 22:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/02/22 22:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/02/22 22:21	1
1,1-Dichloroethane	ND		0.20		ug/L			02/02/22 22:21	1
1,1-Dichloroethene	ND		0.20		ug/L			02/02/22 22:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/02/22 22:21	1
1,2-Dibromo-3-Chloropropane	ND	*+	2.0		ug/L			02/02/22 22:21	1
1,2-Dibromoethane	ND		0.10		ug/L			02/02/22 22:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/02/22 22:21	1
1,2-Dichloroethane	ND		0.20		ug/L			02/02/22 22:21	1
1,2-Dichloropropane	ND		0.20		ug/L			02/02/22 22:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/02/22 22:21	1
2-Butanone	ND		10		ug/L			02/02/22 22:21	1
2-Hexanone	ND		3.0		ug/L			02/02/22 22:21	1
4-Methyl-2-pentanone	ND		10		ug/L			02/02/22 22:21	1
Acetone	ND		10		ug/L			02/02/22 22:21	1
Acrylonitrile	ND		10		ug/L			02/02/22 22:21	1
Benzene	ND		0.20		ug/L			02/02/22 22:21	1
Bromochloromethane	ND		0.20		ug/L			02/02/22 22:21	1
Bromodichloromethane	ND		0.20		ug/L			02/02/22 22:21	1
Bromoform	ND		0.50		ug/L			02/02/22 22:21	1
Bromomethane	ND		0.50		ug/L			02/02/22 22:21	1
Carbon disulfide	ND		0.30		ug/L			02/02/22 22:21	1
Carbon tetrachloride	ND		0.20		ug/L			02/02/22 22:21	1
Chlorobenzene	ND		0.20		ug/L			02/02/22 22:21	1
Chloroethane	ND	*+	0.50		ug/L			02/02/22 22:21	1
Chloroform	ND		0.20		ug/L			02/02/22 22:21	1
Chloromethane	ND	*+	0.50		ug/L			02/02/22 22:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 22:21	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 22:21	1
Dibromochloromethane	ND		0.20		ug/L			02/02/22 22:21	1
Dibromomethane	ND		0.20		ug/L			02/02/22 22:21	1
Ethylbenzene	ND		0.20		ug/L			02/02/22 22:21	1
m,p-Xylene	ND		0.50		ug/L			02/02/22 22:21	1
Methyl iodide	ND		0.50		ug/L			02/02/22 22:21	1
Methylene Chloride	ND		5.0		ug/L			02/02/22 22:21	1
o-Xylene	ND		0.50		ug/L			02/02/22 22:21	1
Styrene	ND		1.0		ug/L			02/02/22 22:21	1
Tetrachloroethene	ND		0.50		ug/L			02/02/22 22:21	1
Toluene	ND		0.20		ug/L			02/02/22 22:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 22:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 22:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/02/22 22:21	1
Trichloroethene	ND		0.20		ug/L			02/02/22 22:21	1
Trichlorofluoromethane	**0.93**		0.50		ug/L			02/02/22 22:21	1
Vinyl acetate	ND		2.0		ug/L			02/02/22 22:21	1
Vinyl chloride	ND		0.020		ug/L			02/02/22 22:21	1

Client Sample ID: 0122-02

Date Collected: 01/26/22 10:30
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*02/02/22 22:21*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/02/22 22:21*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*02/02/22 22:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/02/22 22:21*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		0.50		mg/L		02/01/22 18:27	02/02/22 17:36	1
Magnesium	**68**		0.50		mg/L		02/01/22 18:27	02/02/22 17:36	1
Manganese	ND		0.020		mg/L		02/01/22 18:27	02/02/22 17:36	1
Potassium	**8.0**		3.3		mg/L		02/01/22 18:27	02/02/22 17:36	1
Sodium	**40**		0.50		mg/L		02/01/22 18:27	02/02/22 17:36	1
Iron	ND		0.50		mg/L		02/01/22 18:27	02/02/22 17:36	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0030**		0.0010		mg/L		02/03/22 19:09	02/04/22 13:24	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:24	1
Barium	**0.028**		0.0012		mg/L		02/03/22 19:09	02/04/22 13:24	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:24	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:24	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:24	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:24	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 13:24	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:24	1
Nickel	**0.0045**		0.0030		mg/L		02/03/22 19:09	02/04/22 13:24	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 13:24	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:24	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 13:24	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 13:24	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 16:05	1
Nitrate Nitrite as N	**3.7**		0.40		mg/L			01/27/22 16:05	1
Chloride	**70**		1.5		mg/L			01/27/22 16:05	1
Sulfate	**69**		1.5		mg/L			01/27/22 16:05	1
Ammonia	ND		0.50		mg/L		01/28/22 16:27	01/28/22 22:27	1
Carbon, Total Organic	**2.3**		0.50		mg/L			01/29/22 14:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**420**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**420**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**650**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-03
Date Collected: 01/26/22 13:45
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/02/22 22:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/02/22 22:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/02/22 22:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/02/22 22:46	1
1,1-Dichloroethane	ND		0.20		ug/L			02/02/22 22:46	1
1,1-Dichloroethene	ND		0.20		ug/L			02/02/22 22:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/02/22 22:46	1
1,2-Dibromo-3-Chloropropane	ND	*+	2.0		ug/L			02/02/22 22:46	1
1,2-Dibromoethane	ND		0.10		ug/L			02/02/22 22:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/02/22 22:46	1
1,2-Dichloroethane	ND		0.20		ug/L			02/02/22 22:46	1
1,2-Dichloropropane	ND		0.20		ug/L			02/02/22 22:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/02/22 22:46	1
2-Butanone	ND		10		ug/L			02/02/22 22:46	1
2-Hexanone	ND		3.0		ug/L			02/02/22 22:46	1
4-Methyl-2-pentanone	ND		10		ug/L			02/02/22 22:46	1
Acetone	ND		10		ug/L			02/02/22 22:46	1
Acrylonitrile	ND		10		ug/L			02/02/22 22:46	1
Benzene	ND		0.20		ug/L			02/02/22 22:46	1
Bromochloromethane	ND		0.20		ug/L			02/02/22 22:46	1
Bromodichloromethane	ND		0.20		ug/L			02/02/22 22:46	1
Bromoform	ND		0.50		ug/L			02/02/22 22:46	1
Bromomethane	ND		0.50		ug/L			02/02/22 22:46	1
Carbon disulfide	ND		0.30		ug/L			02/02/22 22:46	1
Carbon tetrachloride	ND		0.20		ug/L			02/02/22 22:46	1
Chlorobenzene	ND		0.20		ug/L			02/02/22 22:46	1
Chloroethane	ND	*+	0.50		ug/L			02/02/22 22:46	1
Chloroform	ND		0.20		ug/L			02/02/22 22:46	1
Chloromethane	ND	*+	0.50		ug/L			02/02/22 22:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 22:46	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 22:46	1
Dibromochloromethane	ND		0.20		ug/L			02/02/22 22:46	1
Dibromomethane	ND		0.20		ug/L			02/02/22 22:46	1
Ethylbenzene	ND		0.20		ug/L			02/02/22 22:46	1
m,p-Xylene	ND		0.50		ug/L			02/02/22 22:46	1
Methyl iodide	ND		0.50		ug/L			02/02/22 22:46	1
Methylene Chloride	ND		5.0		ug/L			02/02/22 22:46	1
o-Xylene	ND		0.50		ug/L			02/02/22 22:46	1
Styrene	ND		1.0		ug/L			02/02/22 22:46	1
Tetrachloroethene	ND		0.50		ug/L			02/02/22 22:46	1
Toluene	ND		0.20		ug/L			02/02/22 22:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 22:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 22:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/02/22 22:46	1
Trichloroethene	ND		0.20		ug/L			02/02/22 22:46	1
Trichlorofluoromethane	ND		0.50		ug/L			02/02/22 22:46	1
Vinyl acetate	ND		2.0		ug/L			02/02/22 22:46	1
Vinyl chloride	ND		0.020		ug/L			02/02/22 22:46	1

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-03
Lab Sample ID: 580-109688-3
Date Collected: 01/26/22 13:45
Matrix: Water
Date Received: 01/27/22 08:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		02/02/22 22:46	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/02/22 22:46	1
Dibromofluoromethane (Surr)	108		80 - 120		02/02/22 22:46	1
Toluene-d8 (Surr)	97		80 - 120		02/02/22 22:46	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-04
Date Collected: 01/26/22 14:40
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 16:56	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 16:56	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 16:56	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 16:56	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 16:56	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 16:56	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 16:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 16:56	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 16:56	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 16:56	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 16:56	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 16:56	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 16:56	1
2-Butanone	ND		10		ug/L			02/03/22 16:56	1
2-Hexanone	ND		3.0		ug/L			02/03/22 16:56	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 16:56	1
Acetone	ND		10		ug/L			02/03/22 16:56	1
Acrylonitrile	ND		10		ug/L			02/03/22 16:56	1
Benzene	ND		0.20		ug/L			02/03/22 16:56	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 16:56	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 16:56	1
Bromoform	ND		0.50		ug/L			02/03/22 16:56	1
Bromomethane	ND		0.50		ug/L			02/03/22 16:56	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 16:56	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 16:56	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 16:56	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 16:56	1
Chloroform	ND		0.20		ug/L			02/03/22 16:56	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 16:56	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 16:56	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 16:56	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 16:56	1
Dibromomethane	ND		0.20		ug/L			02/03/22 16:56	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 16:56	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 16:56	1
Methyl iodide	ND		0.50		ug/L			02/03/22 16:56	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 16:56	1
o-Xylene	ND		0.50		ug/L			02/03/22 16:56	1
Styrene	ND		1.0		ug/L			02/03/22 16:56	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 16:56	1
Toluene	ND		0.20		ug/L			02/03/22 16:56	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 16:56	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 16:56	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 16:56	1
Trichloroethene	ND		0.20		ug/L			02/03/22 16:56	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 16:56	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 16:56	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 16:56	1

Client Sample ID: 0122-04
Date Collected: 01/26/22 14:40
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*02/03/22 16:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/03/22 16:56*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*02/03/22 16:56*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*02/03/22 16:56*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		0.50		mg/L		02/01/22 18:27	02/02/22 17:39	1
Magnesium	**70**		0.50		mg/L		02/01/22 18:27	02/02/22 17:39	1
Manganese	**0.30**		0.020		mg/L		02/01/22 18:27	02/02/22 17:39	1
Potassium	**7.6**		3.3		mg/L		02/01/22 18:27	02/02/22 17:39	1
Sodium	**33**		0.50		mg/L		02/01/22 18:27	02/02/22 17:39	1
Iron	**1.7**		0.50		mg/L		02/01/22 18:27	02/02/22 17:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0058**		0.0010		mg/L		02/03/22 19:09	02/04/22 13:28	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:28	1
Barium	**0.077**		0.0012		mg/L		02/03/22 19:09	02/04/22 13:28	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:28	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:28	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:28	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:28	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 13:28	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:28	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 13:28	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 13:28	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:28	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 13:28	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 13:28	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 16:17	1
Nitrate Nitrite as N	ND		0.40		mg/L			01/27/22 16:17	1
Chloride	**21**		1.5		mg/L			01/27/22 16:17	1
Sulfate	**28**		1.5		mg/L			01/27/22 16:17	1
Ammonia	ND		0.50		mg/L		02/04/22 17:31	02/04/22 21:35	1
Carbon, Total Organic	**2.1**		0.50		mg/L			01/29/22 15:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**630**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**630**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**680**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-05
Date Collected: 01/26/22 16:10
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 17:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 17:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 17:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 17:21	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 17:21	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 17:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 17:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 17:21	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 17:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 17:21	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 17:21	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 17:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 17:21	1
2-Butanone	ND		10		ug/L			02/03/22 17:21	1
2-Hexanone	ND		3.0		ug/L			02/03/22 17:21	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 17:21	1
Acetone	ND		10		ug/L			02/03/22 17:21	1
Acrylonitrile	ND		10		ug/L			02/03/22 17:21	1
Benzene	ND		0.20		ug/L			02/03/22 17:21	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 17:21	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 17:21	1
Bromoform	ND		0.50		ug/L			02/03/22 17:21	1
Bromomethane	ND		0.50		ug/L			02/03/22 17:21	1
Carbon disulfide	**0.34**		0.30		ug/L			02/03/22 17:21	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 17:21	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 17:21	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 17:21	1
Chloroform	ND		0.20		ug/L			02/03/22 17:21	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 17:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 17:21	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 17:21	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 17:21	1
Dibromomethane	ND		0.20		ug/L			02/03/22 17:21	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 17:21	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 17:21	1
Methyl iodide	ND		0.50		ug/L			02/03/22 17:21	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 17:21	1
o-Xylene	ND		0.50		ug/L			02/03/22 17:21	1
Styrene	ND		1.0		ug/L			02/03/22 17:21	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 17:21	1
Toluene	ND		0.20		ug/L			02/03/22 17:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 17:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 17:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 17:21	1
Trichloroethene	ND		0.20		ug/L			02/03/22 17:21	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 17:21	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*02/03/22 17:21*	*1*

Client Sample ID: 0122-05
Date Collected: 01/26/22 16:10
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/03/22 17:21*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*02/03/22 17:21*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/03/22 17:21*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			02/08/22 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*02/08/22 14:28*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/08/22 14:28*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*02/08/22 14:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/08/22 14:28*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**63**		0.50		mg/L		02/01/22 18:27	02/02/22 17:42	1
Magnesium	**32**		0.50		mg/L		02/01/22 18:27	02/02/22 17:42	1
Manganese	**0.55**		0.020		mg/L		02/01/22 18:27	02/02/22 17:42	1
Potassium	**5.8**		3.3		mg/L		02/01/22 18:27	02/02/22 17:42	1
Sodium	**35**		0.50		mg/L		02/01/22 18:27	02/02/22 17:42	1
Iron	**1.2**		0.50		mg/L		02/01/22 18:27	02/02/22 17:42	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0012**		0.0010		mg/L		02/03/22 19:09	02/04/22 13:31	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:31	1
Barium	**0.083**		0.0012		mg/L		02/03/22 19:09	02/04/22 13:31	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:31	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:31	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:31	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:31	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 13:31	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:31	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 13:31	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 13:31	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:31	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 13:31	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 13:31	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 16:29	1
Nitrate Nitrite as N	ND		0.40		mg/L			01/27/22 16:29	1
Chloride	**18**		1.5		mg/L			01/27/22 16:29	1
Sulfate	**31**		1.5		mg/L			01/27/22 16:29	1
Ammonia	**0.84**		0.50		mg/L		02/04/22 17:31	02/04/22 21:35	1
Carbon, Total Organic	**2.0**		0.50		mg/L			01/29/22 15:49	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-05
Lab Sample ID: 580-109688-5
Date Collected: 01/26/22 16:10
Matrix: Water
Date Received: 01/27/22 08:10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**300**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**390**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-06
Date Collected: 01/26/22 15:00
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		3.0		ug/L			02/03/22 17:46	10
1,1,1-Trichloroethane	ND		2.0		ug/L			02/03/22 17:46	10
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			02/03/22 17:46	10
1,1,2-Trichloroethane	ND		2.0		ug/L			02/03/22 17:46	10
1,1-Dichloroethane	**3.1**		2.0		ug/L			02/03/22 17:46	10
1,1-Dichloroethene	ND		2.0		ug/L			02/03/22 17:46	10
1,2,3-Trichloropropane	ND		2.0		ug/L			02/03/22 17:46	10
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			02/03/22 17:46	10
1,2-Dibromoethane	ND		1.0		ug/L			02/03/22 17:46	10
1,2-Dichlorobenzene	ND		3.0		ug/L			02/03/22 17:46	10
1,2-Dichloroethane	ND		2.0		ug/L			02/03/22 17:46	10
1,2-Dichloropropane	ND		2.0		ug/L			02/03/22 17:46	10
1,4-Dichlorobenzene	ND		3.0		ug/L			02/03/22 17:46	10
2-Butanone	ND		100		ug/L			02/03/22 17:46	10
2-Hexanone	ND		30		ug/L			02/03/22 17:46	10
4-Methyl-2-pentanone	ND		100		ug/L			02/03/22 17:46	10
Acetone	ND		100		ug/L			02/03/22 17:46	10
Acrylonitrile	ND		100		ug/L			02/03/22 17:46	10
Benzene	ND		2.0		ug/L			02/03/22 17:46	10
Bromochloromethane	ND		2.0		ug/L			02/03/22 17:46	10
Bromodichloromethane	ND		2.0		ug/L			02/03/22 17:46	10
Bromoform	ND		5.0		ug/L			02/03/22 17:46	10
Bromomethane	ND		5.0		ug/L			02/03/22 17:46	10
Carbon disulfide	ND		3.0		ug/L			02/03/22 17:46	10
Carbon tetrachloride	ND		2.0		ug/L			02/03/22 17:46	10
Chlorobenzene	ND		2.0		ug/L			02/03/22 17:46	10
Chloroethane	ND	*+	5.0		ug/L			02/03/22 17:46	10
Chloroform	ND		2.0		ug/L			02/03/22 17:46	10
Chloromethane	ND	*+	5.0		ug/L			02/03/22 17:46	10
cis-1,2-Dichloroethene	ND		2.0		ug/L			02/03/22 17:46	10
cis-1,3-Dichloropropene	ND		2.0		ug/L			02/03/22 17:46	10
Dibromochloromethane	ND		2.0		ug/L			02/03/22 17:46	10
Dibromomethane	ND		2.0		ug/L			02/03/22 17:46	10
Ethylbenzene	ND		2.0		ug/L			02/03/22 17:46	10
m,p-Xylene	ND		5.0		ug/L			02/03/22 17:46	10
Methyl iodide	ND		5.0		ug/L			02/03/22 17:46	10
Methylene Chloride	ND		50		ug/L			02/03/22 17:46	10
o-Xylene	ND		5.0		ug/L			02/03/22 17:46	10
Styrene	ND		10		ug/L			02/03/22 17:46	10
Tetrachloroethene	ND		5.0		ug/L			02/03/22 17:46	10
Toluene	ND		2.0		ug/L			02/03/22 17:46	10
trans-1,2-Dichloroethene	ND		2.0		ug/L			02/03/22 17:46	10
trans-1,3-Dichloropropene	ND		2.0		ug/L			02/03/22 17:46	10
trans-1,4-Dichloro-2-butene	ND		20		ug/L			02/03/22 17:46	10
Trichloroethene	ND		2.0		ug/L			02/03/22 17:46	10
Trichlorofluoromethane	**110**		5.0		ug/L			02/03/22 17:46	10
Vinyl acetate	ND		20		ug/L			02/03/22 17:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*02/03/22 17:46*	*10*

Client Sample ID: 0122-06
Date Collected: 01/26/22 15:00
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/03/22 17:46*	*10*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*02/03/22 17:46*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/03/22 17:46*	*10*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**1.2**		0.20		ug/L			02/08/22 14:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*02/08/22 14:52*	*10*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*02/08/22 14:52*	*10*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*02/08/22 14:52*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/08/22 14:52*	*10*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**250**		0.50		mg/L		02/01/22 18:27	02/02/22 17:46	1
Magnesium	**100**		0.50		mg/L		02/01/22 18:27	02/02/22 17:46	1
Manganese	**0.69**		0.020		mg/L		02/01/22 18:27	02/02/22 17:46	1
Potassium	**9.0**		3.3		mg/L		02/01/22 18:27	02/02/22 17:46	1
Sodium	**36**		0.50		mg/L		02/01/22 18:27	02/02/22 17:46	1
Iron	ND		0.50		mg/L		02/01/22 18:27	02/02/22 17:46	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0021**		0.0010		mg/L		02/03/22 19:09	02/04/22 13:35	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:35	1
Barium	**0.064**		0.0012		mg/L		02/03/22 19:09	02/04/22 13:35	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:35	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:35	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:35	1
Cobalt	**0.0028**		0.00040		mg/L		02/03/22 19:09	02/04/22 13:35	1
Copper	**0.0040**		0.0020		mg/L		02/03/22 19:09	02/04/22 13:35	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:35	1
Nickel	**0.029**		0.0030		mg/L		02/03/22 19:09	02/04/22 13:35	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 13:35	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:35	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 13:35	1
Vanadium	**0.0099**		0.0040		mg/L		02/03/22 19:09	02/04/22 13:35	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 17:04	1
Nitrate Nitrite as N	**0.94**		0.40		mg/L			01/27/22 17:04	1
Chloride	**52**		1.5		mg/L			01/27/22 17:04	1
Sulfate	**270**		15		mg/L			02/02/22 10:36	10
Ammonia	ND		0.50		mg/L		02/04/22 17:31	02/04/22 21:35	1
Carbon, Total Organic	**19**		0.50		mg/L			01/29/22 16:11	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-06
Lab Sample ID: 580-109688-6
Date Collected: 01/26/22 15:00
Matrix: Water
Date Received: 01/27/22 08:10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**680**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**680**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**1400**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	**47**		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-07
Date Collected: 01/26/22 16:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 19:00	1
1,1,1-Trichloroethane	**0.54**		0.20		ug/L			02/03/22 19:00	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 19:00	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 19:00	1
1,1-Dichloroethane	**0.21**		0.20		ug/L			02/03/22 19:00	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 19:00	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 19:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 19:00	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 19:00	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 19:00	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 19:00	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 19:00	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 19:00	1
2-Butanone	ND		10		ug/L			02/03/22 19:00	1
2-Hexanone	ND		3.0		ug/L			02/03/22 19:00	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 19:00	1
Acetone	ND		10		ug/L			02/03/22 19:00	1
Acrylonitrile	ND		10		ug/L			02/03/22 19:00	1
Benzene	ND		0.20		ug/L			02/03/22 19:00	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 19:00	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 19:00	1
Bromoform	ND		0.50		ug/L			02/03/22 19:00	1
Bromomethane	ND		0.50		ug/L			02/03/22 19:00	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 19:00	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 19:00	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 19:00	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 19:00	1
Chloroform	ND		0.20		ug/L			02/03/22 19:00	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 19:00	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 19:00	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 19:00	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 19:00	1
Dibromomethane	ND		0.20		ug/L			02/03/22 19:00	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 19:00	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 19:00	1
Methyl iodide	ND		0.50		ug/L			02/03/22 19:00	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 19:00	1
o-Xylene	ND		0.50		ug/L			02/03/22 19:00	1
Styrene	ND		1.0		ug/L			02/03/22 19:00	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 19:00	1
Toluene	ND		0.20		ug/L			02/03/22 19:00	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 19:00	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 19:00	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 19:00	1
Trichloroethene	ND		0.20		ug/L			02/03/22 19:00	1
Trichlorofluoromethane	**5.1**		0.50		ug/L			02/03/22 19:00	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*02/03/22 19:00*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-07
Date Collected: 01/26/22 16:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/03/22 19:00*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*02/03/22 19:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/03/22 19:00*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**17**		0.020		ug/L			02/08/22 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*02/08/22 15:16*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/08/22 15:16*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*02/08/22 15:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/08/22 15:16*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-08
Date Collected: 01/26/22 10:22
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 19:24	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 19:24	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 19:24	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 19:24	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 19:24	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 19:24	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 19:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 19:24	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 19:24	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 19:24	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 19:24	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 19:24	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 19:24	1
2-Butanone	ND		10		ug/L			02/03/22 19:24	1
2-Hexanone	ND		3.0		ug/L			02/03/22 19:24	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 19:24	1
Acetone	ND		10		ug/L			02/03/22 19:24	1
Acrylonitrile	ND		10		ug/L			02/03/22 19:24	1
Benzene	ND		0.20		ug/L			02/03/22 19:24	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 19:24	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 19:24	1
Bromoform	ND		0.50		ug/L			02/03/22 19:24	1
Bromomethane	ND		0.50		ug/L			02/03/22 19:24	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 19:24	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 19:24	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 19:24	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 19:24	1
Chloroform	ND		0.20		ug/L			02/03/22 19:24	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 19:24	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 19:24	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 19:24	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 19:24	1
Dibromomethane	ND		0.20		ug/L			02/03/22 19:24	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 19:24	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 19:24	1
Methyl iodide	ND		0.50		ug/L			02/03/22 19:24	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 19:24	1
o-Xylene	ND		0.50		ug/L			02/03/22 19:24	1
Styrene	ND		1.0		ug/L			02/03/22 19:24	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 19:24	1
Toluene	ND		0.20		ug/L			02/03/22 19:24	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 19:24	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 19:24	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 19:24	1
Trichloroethene	ND		0.20		ug/L			02/03/22 19:24	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 19:24	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 19:24	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 19:24	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-08

Date Collected: 01/26/22 10:22
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*02/03/22 19:24*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/03/22 19:24*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/03/22 19:24*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/03/22 19:24*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		02/01/22 18:27	02/02/22 17:49	1
Magnesium	**58**		0.50		mg/L		02/01/22 18:27	02/02/22 17:49	1
Manganese	**0.086**		0.020		mg/L		02/01/22 18:27	02/02/22 17:49	1
Potassium	**7.5**		3.3		mg/L		02/01/22 18:27	02/02/22 17:49	1
Sodium	**31**		0.50		mg/L		02/01/22 18:27	02/02/22 17:49	1
Iron	**0.94**		0.50		mg/L		02/01/22 18:27	02/02/22 17:49	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0061**		0.0010		mg/L		02/03/22 19:09	02/04/22 13:39	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:39	1
Barium	**0.049**		0.0012		mg/L		02/03/22 19:09	02/04/22 13:39	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:39	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:39	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 13:39	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:39	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 13:39	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:39	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 13:39	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 13:39	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 13:39	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 13:39	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 13:39	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 17:16	1
Nitrate Nitrite as N	ND		0.40		mg/L			01/27/22 17:16	1
Chloride	**56**		1.5		mg/L			01/27/22 17:16	1
Sulfate	**46**		1.5		mg/L			01/27/22 17:16	1
Ammonia	ND		0.50		mg/L		02/04/22 17:31	02/04/22 21:35	1
Carbon, Total Organic	**1.5**		0.50		mg/L			01/29/22 16:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**410**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**410**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**630**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-09
Date Collected: 01/26/22 11:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 19:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 19:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 19:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 19:48	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 19:48	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 19:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 19:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 19:48	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 19:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 19:48	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 19:48	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 19:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 19:48	1
2-Butanone	ND		10		ug/L			02/03/22 19:48	1
2-Hexanone	ND		3.0		ug/L			02/03/22 19:48	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 19:48	1
Acetone	ND		10		ug/L			02/03/22 19:48	1
Acrylonitrile	ND		10		ug/L			02/03/22 19:48	1
Benzene	ND		0.20		ug/L			02/03/22 19:48	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 19:48	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 19:48	1
Bromoform	ND		0.50		ug/L			02/03/22 19:48	1
Bromomethane	ND		0.50		ug/L			02/03/22 19:48	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 19:48	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 19:48	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 19:48	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 19:48	1
Chloroform	ND		0.20		ug/L			02/03/22 19:48	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 19:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 19:48	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 19:48	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 19:48	1
Dibromomethane	ND		0.20		ug/L			02/03/22 19:48	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 19:48	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 19:48	1
Methyl iodide	ND		0.50		ug/L			02/03/22 19:48	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 19:48	1
o-Xylene	ND		0.50		ug/L			02/03/22 19:48	1
Styrene	ND		1.0		ug/L			02/03/22 19:48	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 19:48	1
Toluene	ND		0.20		ug/L			02/03/22 19:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 19:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 19:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 19:48	1
Trichloroethene	ND		0.20		ug/L			02/03/22 19:48	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 19:48	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 19:48	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 19:48	1

Client Sample ID: 0122-09
Date Collected: 01/26/22 11:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-9
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*02/03/22 19:48*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/03/22 19:48*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*02/03/22 19:48*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*02/03/22 19:48*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**29**		0.50		mg/L		02/03/22 19:09	02/04/22 21:39	1
Magnesium	**32**		0.50		mg/L		02/03/22 19:09	02/04/22 21:39	1
Manganese	**0.032**		0.020		mg/L		02/03/22 19:09	02/04/22 21:39	1
Potassium	**15**		3.3		mg/L		02/03/22 19:09	02/04/22 21:39	1
Sodium	**15**		0.50		mg/L		02/03/22 19:09	02/04/22 21:39	1
Iron	ND		0.50		mg/L		02/03/22 19:09	02/04/22 21:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**		0.0010		mg/L		02/03/22 19:09	02/04/22 12:25	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 12:25	1
Barium	**0.025**		0.0012		mg/L		02/03/22 19:09	02/04/22 12:25	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:25	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:25	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 12:25	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:25	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 12:25	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:25	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 12:25	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 12:25	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:25	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 12:25	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 12:25	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 17:28	1
Nitrate Nitrite as N	ND		0.40		mg/L			01/27/22 17:28	1
Chloride	**40**		1.5		mg/L			01/27/22 17:28	1
Sulfate	**18**		1.5		mg/L			01/27/22 17:28	1
Ammonia	ND		0.50		mg/L		02/04/22 17:31	02/04/22 21:35	1
Carbon, Total Organic	**1.4**		0.50		mg/L			01/29/22 16:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**200**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**200**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**220**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-10
Date Collected: 01/26/22 12:18
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 20:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 20:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 20:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 20:13	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 20:13	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 20:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 20:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 20:13	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 20:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 20:13	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 20:13	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 20:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 20:13	1
2-Butanone	ND		10		ug/L			02/03/22 20:13	1
2-Hexanone	ND		3.0		ug/L			02/03/22 20:13	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 20:13	1
Acetone	ND		10		ug/L			02/03/22 20:13	1
Acrylonitrile	ND		10		ug/L			02/03/22 20:13	1
Benzene	ND		0.20		ug/L			02/03/22 20:13	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 20:13	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 20:13	1
Bromoform	ND		0.50		ug/L			02/03/22 20:13	1
Bromomethane	ND		0.50		ug/L			02/03/22 20:13	1
Carbon disulfide	**0.30**		0.30		ug/L			02/03/22 20:13	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 20:13	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 20:13	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 20:13	1
Chloroform	ND		0.20		ug/L			02/03/22 20:13	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 20:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 20:13	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 20:13	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 20:13	1
Dibromomethane	ND		0.20		ug/L			02/03/22 20:13	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 20:13	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 20:13	1
Methyl iodide	ND		0.50		ug/L			02/03/22 20:13	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 20:13	1
o-Xylene	ND		0.50		ug/L			02/03/22 20:13	1
Styrene	ND		1.0		ug/L			02/03/22 20:13	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 20:13	1
Toluene	ND		0.20		ug/L			02/03/22 20:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 20:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 20:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 20:13	1
Trichloroethene	ND		0.20		ug/L			02/03/22 20:13	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 20:13	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 20:13	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 20:13	1

Client Sample ID: 0122-10

Date Collected: 01/26/22 12:18
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*02/03/22 20:13*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/03/22 20:13*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 120*		*02/03/22 20:13*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/03/22 20:13*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**50**		0.50		mg/L		02/03/22 19:09	02/04/22 21:42	1
Magnesium	**26**		0.50		mg/L		02/03/22 19:09	02/04/22 21:42	1
Manganese	**0.29**		0.020		mg/L		02/03/22 19:09	02/04/22 21:42	1
Potassium	**5.4**		3.3		mg/L		02/03/22 19:09	02/04/22 21:42	1
Sodium	**23**		0.50		mg/L		02/03/22 19:09	02/04/22 21:42	1
Iron	**1.5**		0.50		mg/L		02/03/22 19:09	02/04/22 21:42	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0049**		0.0010		mg/L		02/03/22 19:09	02/04/22 14:02	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 14:02	1
Barium	**0.067**		0.0012		mg/L		02/03/22 19:09	02/04/22 14:02	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:02	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:02	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 14:02	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:02	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 14:02	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:02	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 14:02	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 14:02	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:02	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 14:02	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 14:02	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 17:39	1
Nitrate Nitrite as N	ND		0.40		mg/L			01/27/22 17:39	1
Chloride	**13**		1.5		mg/L			01/27/22 17:39	1
Sulfate	**24**		1.5		mg/L			01/27/22 17:39	1
Ammonia	ND		0.50		mg/L		01/28/22 16:27	01/28/22 22:27	1
Carbon, Total Organic	**0.88**		0.50		mg/L			01/29/22 18:06	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**250**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**350**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-11

Date Collected: 01/26/22 13:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-11

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 20:38	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 20:38	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 20:38	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 20:38	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 20:38	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 20:38	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 20:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 20:38	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 20:38	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 20:38	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 20:38	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 20:38	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 20:38	1
2-Butanone	ND		10		ug/L			02/03/22 20:38	1
2-Hexanone	ND		3.0		ug/L			02/03/22 20:38	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 20:38	1
Acetone	ND		10		ug/L			02/03/22 20:38	1
Acrylonitrile	ND		10		ug/L			02/03/22 20:38	1
Benzene	ND		0.20		ug/L			02/03/22 20:38	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 20:38	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 20:38	1
Bromoform	ND		0.50		ug/L			02/03/22 20:38	1
Bromomethane	ND		0.50		ug/L			02/03/22 20:38	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 20:38	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 20:38	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 20:38	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 20:38	1
Chloroform	ND		0.20		ug/L			02/03/22 20:38	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 20:38	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 20:38	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 20:38	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 20:38	1
Dibromomethane	ND		0.20		ug/L			02/03/22 20:38	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 20:38	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 20:38	1
Methyl iodide	ND		0.50		ug/L			02/03/22 20:38	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 20:38	1
o-Xylene	ND		0.50		ug/L			02/03/22 20:38	1
Styrene	ND		1.0		ug/L			02/03/22 20:38	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 20:38	1
Toluene	ND		0.20		ug/L			02/03/22 20:38	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 20:38	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 20:38	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 20:38	1
Trichloroethene	ND		0.20		ug/L			02/03/22 20:38	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 20:38	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 20:38	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 20:38	1

Client Sample ID: 0122-11

Date Collected: 01/26/22 13:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*02/03/22 20:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/03/22 20:38*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*02/03/22 20:38*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/03/22 20:38*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**79**		0.50		mg/L		02/03/22 19:09	02/04/22 21:45	1
Magnesium	**45**		0.50		mg/L		02/03/22 19:09	02/04/22 21:45	1
Manganese	ND		0.020		mg/L		02/03/22 19:09	02/04/22 21:45	1
Potassium	**5.6**		3.3		mg/L		02/03/22 19:09	02/04/22 21:45	1
Sodium	**32**		0.50		mg/L		02/03/22 19:09	02/04/22 21:45	1
Iron	ND		0.50		mg/L		02/03/22 19:09	02/04/22 21:45	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0032**		0.0010		mg/L		02/03/22 19:09	02/04/22 14:06	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 14:06	1
Barium	**0.025**		0.0012		mg/L		02/03/22 19:09	02/04/22 14:06	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:06	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:06	1
Chromium	**0.0019**		0.00080		mg/L		02/03/22 19:09	02/04/22 14:06	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:06	1
Copper	**0.042**		0.0020		mg/L		02/03/22 19:09	02/04/22 14:06	1
Lead	**0.00040**		0.00040		mg/L		02/03/22 19:09	02/04/22 14:06	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 14:06	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 14:06	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:06	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 14:06	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 14:06	1
Zinc	**0.055**		0.0070		mg/L		02/03/22 19:09	02/04/22 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 17:51	1
Nitrate Nitrite as N	**1.7**		0.40		mg/L			01/27/22 17:51	1
Chloride	**54**		1.5		mg/L			01/27/22 17:51	1
Sulfate	**46**		1.5		mg/L			01/27/22 17:51	1
Ammonia	ND		0.50		mg/L		01/28/22 16:27	01/28/22 22:27	1
Carbon, Total Organic	**1.9**		0.50		mg/L			01/29/22 18:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**310**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**480**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: 0122-12
Date Collected: 01/26/22 14:00
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-12
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 21:02	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 21:02	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 21:02	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 21:02	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 21:02	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 21:02	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 21:02	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 21:02	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 21:02	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 21:02	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 21:02	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 21:02	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 21:02	1
2-Butanone	ND		10		ug/L			02/03/22 21:02	1
2-Hexanone	ND		3.0		ug/L			02/03/22 21:02	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 21:02	1
Acetone	ND		10		ug/L			02/03/22 21:02	1
Acrylonitrile	ND		10		ug/L			02/03/22 21:02	1
Benzene	ND		0.20		ug/L			02/03/22 21:02	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 21:02	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 21:02	1
Bromoform	ND		0.50		ug/L			02/03/22 21:02	1
Bromomethane	ND		0.50		ug/L			02/03/22 21:02	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 21:02	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 21:02	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 21:02	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 21:02	1
Chloroform	ND		0.20		ug/L			02/03/22 21:02	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 21:02	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 21:02	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 21:02	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 21:02	1
Dibromomethane	ND		0.20		ug/L			02/03/22 21:02	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 21:02	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 21:02	1
Methyl iodide	ND		0.50		ug/L			02/03/22 21:02	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 21:02	1
o-Xylene	ND		0.50		ug/L			02/03/22 21:02	1
Styrene	ND		1.0		ug/L			02/03/22 21:02	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 21:02	1
Toluene	ND		0.20		ug/L			02/03/22 21:02	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 21:02	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 21:02	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 21:02	1
Trichloroethene	ND		0.20		ug/L			02/03/22 21:02	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 21:02	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 21:02	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 21:02	1

Client Sample ID: 0122-12

Date Collected: 01/26/22 14:00
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*02/03/22 21:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/03/22 21:02*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*02/03/22 21:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/03/22 21:02*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**81**		0.50		mg/L		02/03/22 19:09	02/04/22 21:49	1
Magnesium	**46**		0.50		mg/L		02/03/22 19:09	02/04/22 21:49	1
Manganese	ND		0.020		mg/L		02/03/22 19:09	02/04/22 21:49	1
Potassium	**5.9**		3.3		mg/L		02/03/22 19:09	02/04/22 21:49	1
Sodium	**30**		0.50		mg/L		02/03/22 19:09	02/04/22 21:49	1
Iron	ND		0.50		mg/L		02/03/22 19:09	02/04/22 21:49	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0039**		0.0010		mg/L		02/03/22 19:09	02/04/22 14:10	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 14:10	1
Barium	**0.021**		0.0012		mg/L		02/03/22 19:09	02/04/22 14:10	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:10	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:10	1
Chromium	**0.0034**		0.00080		mg/L		02/03/22 19:09	02/04/22 14:10	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:10	1
Copper	**0.0055**		0.0020		mg/L		02/03/22 19:09	02/04/22 14:10	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:10	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 14:10	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 14:10	1
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 14:10	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 14:10	1
Vanadium	**0.0064**		0.0040		mg/L		02/03/22 19:09	02/04/22 14:10	1
Zinc	**0.0095**		0.0070		mg/L		02/03/22 19:09	02/04/22 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			01/27/22 18:03	1
Nitrate Nitrite as N	ND		0.40		mg/L			01/27/22 18:03	1
Chloride	**64**		1.5		mg/L			01/27/22 18:03	1
Sulfate	**57**		1.5		mg/L			01/27/22 18:03	1
Ammonia	ND		0.50		mg/L		01/28/22 16:27	01/28/22 22:27	1
Carbon, Total Organic	**2.1**		0.50		mg/L			01/29/22 18:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**280**		7.0		mg/L			01/27/22 19:14	1
Bicarbonate Alkalinity as CaCO3	**280**		7.0		mg/L			01/27/22 19:14	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			01/27/22 19:14	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			01/27/22 19:14	1
Total Dissolved Solids	**480**		10		mg/L			02/01/22 12:45	1
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:32	01/27/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Client Sample ID: TRIP BLANK

Date Collected: 01/26/22 00:01
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-13

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			02/03/22 18:35	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 18:35	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 18:35	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 18:35	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 18:35	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 18:35	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 18:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 18:35	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 18:35	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 18:35	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 18:35	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 18:35	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 18:35	1
2-Butanone	ND		10		ug/L			02/03/22 18:35	1
2-Hexanone	ND		3.0		ug/L			02/03/22 18:35	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 18:35	1
Acetone	ND		10		ug/L			02/03/22 18:35	1
Acrylonitrile	ND		10		ug/L			02/03/22 18:35	1
Benzene	ND		0.20		ug/L			02/03/22 18:35	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 18:35	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 18:35	1
Bromoform	ND		0.50		ug/L			02/03/22 18:35	1
Bromomethane	ND		0.50		ug/L			02/03/22 18:35	1
Carbon disulfide	**0.49**		0.30		ug/L			02/03/22 18:35	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 18:35	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 18:35	1
Chloroethane	ND	*+	0.50		ug/L			02/03/22 18:35	1
Chloroform	ND		0.20		ug/L			02/03/22 18:35	1
Chloromethane	ND	*+	0.50		ug/L			02/03/22 18:35	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 18:35	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 18:35	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 18:35	1
Dibromomethane	ND		0.20		ug/L			02/03/22 18:35	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 18:35	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 18:35	1
Methyl iodide	ND		0.50		ug/L			02/03/22 18:35	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 18:35	1
o-Xylene	ND		0.50		ug/L			02/03/22 18:35	1
Styrene	ND		1.0		ug/L			02/03/22 18:35	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 18:35	1
Toluene	ND		0.20		ug/L			02/03/22 18:35	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 18:35	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 18:35	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 18:35	1
Trichloroethene	ND		0.20		ug/L			02/03/22 18:35	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 18:35	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 18:35	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 18:35	1

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: TRIP BLANK
Lab Sample ID: 580-109688-13
Date Collected: 01/26/22 00:01
Matrix: Water
Date Received: 01/27/22 08:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		02/03/22 18:35	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/03/22 18:35	1
Dibromofluoromethane (Surr)	113		80 - 120		02/03/22 18:35	1
Toluene-d8 (Surr)	96		80 - 120		02/03/22 18:35	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-380144/7
Matrix: Water
Analysis Batch: 380144

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		0.30		ug/L			02/02/22 15:05	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/02/22 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/02/22 15:05	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/02/22 15:05	1
1,1-Dichloroethane	ND		0.20		ug/L			02/02/22 15:05	1
1,1-Dichloroethene	ND		0.20		ug/L			02/02/22 15:05	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/02/22 15:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/02/22 15:05	1
1,2-Dibromoethane	ND		0.10		ug/L			02/02/22 15:05	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/02/22 15:05	1
1,2-Dichloroethane	ND		0.20		ug/L			02/02/22 15:05	1
1,2-Dichloropropane	ND		0.20		ug/L			02/02/22 15:05	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/02/22 15:05	1
2-Butanone	ND		10		ug/L			02/02/22 15:05	1
2-Hexanone	ND		3.0		ug/L			02/02/22 15:05	1
4-Methyl-2-pentanone	ND		10		ug/L			02/02/22 15:05	1
Acetone	ND		10		ug/L			02/02/22 15:05	1
Acrylonitrile	ND		10		ug/L			02/02/22 15:05	1
Benzene	ND		0.20		ug/L			02/02/22 15:05	1
Bromochloromethane	ND		0.20		ug/L			02/02/22 15:05	1
Bromodichloromethane	ND		0.20		ug/L			02/02/22 15:05	1
Bromoform	ND		0.50		ug/L			02/02/22 15:05	1
Bromomethane	ND		0.50		ug/L			02/02/22 15:05	1
Carbon disulfide	ND		0.30		ug/L			02/02/22 15:05	1
Carbon tetrachloride	ND		0.20		ug/L			02/02/22 15:05	1
Chlorobenzene	ND		0.20		ug/L			02/02/22 15:05	1
Chloroethane	ND		0.50		ug/L			02/02/22 15:05	1
Chloroform	ND		0.20		ug/L			02/02/22 15:05	1
Chloromethane	ND		0.50		ug/L			02/02/22 15:05	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 15:05	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 15:05	1
Dibromochloromethane	ND		0.20		ug/L			02/02/22 15:05	1
Dibromomethane	ND		0.20		ug/L			02/02/22 15:05	1
Ethylbenzene	ND		0.20		ug/L			02/02/22 15:05	1
m,p-Xylene	ND		0.50		ug/L			02/02/22 15:05	1
Methyl iodide	ND		0.50		ug/L			02/02/22 15:05	1
Methylene Chloride	ND		5.0		ug/L			02/02/22 15:05	1
o-Xylene	ND		0.50		ug/L			02/02/22 15:05	1
Styrene	ND		1.0		ug/L			02/02/22 15:05	1
Tetrachloroethene	ND		0.50		ug/L			02/02/22 15:05	1
Toluene	ND		0.20		ug/L			02/02/22 15:05	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/02/22 15:05	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/02/22 15:05	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/02/22 15:05	1
Trichloroethene	ND		0.20		ug/L			02/02/22 15:05	1
Trichlorofluoromethane	ND		0.50		ug/L			02/02/22 15:05	1
Vinyl acetate	ND		2.0		ug/L			02/02/22 15:05	1
Vinyl chloride	ND		0.020		ug/L			02/02/22 15:05	1

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

Lab Sample ID: MB 580-380144/7
Matrix: Water
Analysis Batch: 380144

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		02/02/22 15:05	1
4-Bromofluorobenzene (Surr)	100		80 - 120		02/02/22 15:05	1
Dibromofluoromethane (Surr)	103		80 - 120		02/02/22 15:05	1
Toluene-d8 (Surr)	96		80 - 120		02/02/22 15:05	1

Lab Sample ID: LCS 580-380144/4
Matrix: Water
Analysis Batch: 380144

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	5.31		ug/L		106	69 - 127
1,1,1-Trichloroethane	5.00	5.59		ug/L		112	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.13		ug/L		103	67 - 136
1,1,2-Trichloroethane	5.00	4.76		ug/L		95	73 - 127
1,1-Dichloroethane	5.00	5.22		ug/L		104	74 - 120
1,1-Dichloroethene	5.00	5.80		ug/L		116	60 - 129
1,2,3-Trichloropropane	5.00	4.79		ug/L		96	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	6.48		ug/L		130	55 - 135
1,2-Dibromoethane	5.00	5.33		ug/L		107	61 - 143
1,2-Dichlorobenzene	5.00	5.54		ug/L		111	72 - 129
1,2-Dichloroethane	5.00	5.12		ug/L		102	74 - 127
1,2-Dichloropropane	5.00	5.34		ug/L		107	69 - 130
1,4-Dichlorobenzene	5.00	4.94		ug/L		99	71 - 129
2-Butanone	25.0	27.9		ug/L		112	37 - 150
2-Hexanone	25.0	26.0		ug/L		104	56 - 150
4-Methyl-2-pentanone	25.0	25.7		ug/L		103	63 - 137
Acetone	25.0	25.7		ug/L		103	49 - 150
Acrylonitrile	50.0	58.1		ug/L		116	50 - 145
Benzene	5.00	4.81		ug/L		96	80 - 120
Bromochloromethane	5.00	5.26		ug/L		105	79 - 121
Bromodichloromethane	5.00	5.24		ug/L		105	74 - 131
Bromoform	5.00	5.68		ug/L		114	48 - 127
Bromomethane	5.00	6.83		ug/L		137	51 - 148
Carbon disulfide	5.00	5.94		ug/L		119	54 - 142
Carbon tetrachloride	5.00	5.71		ug/L		114	66 - 130
Chlorobenzene	5.00	4.98		ug/L		100	74 - 123
Chloroethane	5.00	7.23	*+	ug/L		145	54 - 140
Chloroform	5.00	5.08		ug/L		102	75 - 120
Chloromethane	5.00	7.62	*+	ug/L		152	32 - 150
cis-1,2-Dichloroethene	5.00	5.77		ug/L		115	72 - 120
cis-1,3-Dichloropropene	5.00	5.54		ug/L		111	77 - 131
Dibromochloromethane	5.00	5.83		ug/L		117	62 - 141
Dibromomethane	5.00	5.02		ug/L		100	65 - 141
Ethylbenzene	5.00	5.82		ug/L		116	80 - 124
m,p-Xylene	5.00	5.38		ug/L		108	75 - 124
Methyl iodide	5.00	5.22		ug/L		104	60 - 128
Methylene Chloride	5.00	5.52		ug/L		110	40 - 142
o-Xylene	5.00	5.53		ug/L		111	71 - 124

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

Lab Sample ID: LCS 580-380144/4
Matrix: Water
Analysis Batch: 380144

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Styrene			5.00	5.44		ug/L		109	74 - 127		
Tetrachloroethene			5.00	5.22		ug/L		104	75 - 124		
Toluene			5.00	5.36		ug/L		107	80 - 126		
trans-1,2-Dichloroethene			5.00	5.55		ug/L		111	69 - 121		
trans-1,3-Dichloropropene			5.00	5.87		ug/L		117	71 - 138		
trans-1,4-Dichloro-2-butene			5.00	5.08		ug/L		102	20 - 150		
Trichloroethene			5.00	5.54		ug/L		111	72 - 120		
Trichlorofluoromethane			5.00	5.90		ug/L		118	60 - 132		
Vinyl acetate			12.5	13.0		ug/L		104	38 - 150		
Vinyl chloride			5.00	7.09		ug/L		142	41 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-380144/5
Matrix: Water
Analysis Batch: 380144

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	5.32		ug/L		106	69 - 127	0	22
1,1,1-Trichloroethane			5.00	5.42		ug/L		108	70 - 121	3	24
1,1,2,2-Tetrachloroethane			5.00	5.32		ug/L		106	67 - 136	4	24
1,1,2-Trichloroethane			5.00	4.81		ug/L		96	73 - 127	1	22
1,1-Dichloroethane			5.00	5.16		ug/L		103	74 - 120	1	26
1,1-Dichloroethene			5.00	5.64		ug/L		113	60 - 129	3	29
1,2,3-Trichloropropane			5.00	4.98		ug/L		100	67 - 135	4	25
1,2-Dibromo-3-Chloropropane			5.00	7.30	*+	ug/L		146	55 - 135	12	29
1,2-Dibromoethane			5.00	5.26		ug/L		105	61 - 143	1	22
1,2-Dichlorobenzene			5.00	5.63		ug/L		113	72 - 129	2	22
1,2-Dichloroethane			5.00	5.00		ug/L		100	74 - 127	2	21
1,2-Dichloropropane			5.00	5.27		ug/L		105	69 - 130	1	22
1,4-Dichlorobenzene			5.00	5.04		ug/L		101	71 - 129	2	22
2-Butanone			25.0	27.8		ug/L		111	37 - 150	0	35
2-Hexanone			25.0	26.2		ug/L		105	56 - 150	1	29
4-Methyl-2-pentanone			25.0	26.0		ug/L		104	63 - 137	1	26
Acetone			25.0	23.7		ug/L		95	49 - 150	8	24
Acrylonitrile			50.0	57.2		ug/L		114	50 - 145	1	33
Benzene			5.00	4.72		ug/L		94	80 - 120	2	22
Bromochloromethane			5.00	5.20		ug/L		104	79 - 121	1	20
Bromodichloromethane			5.00	5.15		ug/L		103	74 - 131	2	21
Bromoform			5.00	5.83		ug/L		117	48 - 127	3	23
Bromomethane			5.00	6.64		ug/L		133	51 - 148	3	35
Carbon disulfide			5.00	5.76		ug/L		115	54 - 142	3	34
Carbon tetrachloride			5.00	5.58		ug/L		112	66 - 130	2	24
Chlorobenzene			5.00	4.98		ug/L		100	74 - 123	0	21

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

Lab Sample ID: LCSD 580-380144/5
Matrix: Water
Analysis Batch: 380144

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane			5.00	6.78		ug/L		136	54 - 140	7	33
Chloroform			5.00	4.96		ug/L		99	75 - 120	2	21
Chloromethane			5.00	7.32		ug/L		146	32 - 150	4	33
cis-1,2-Dichloroethene			5.00	5.69		ug/L		114	72 - 120	1	22
cis-1,3-Dichloropropene			5.00	5.52		ug/L		110	77 - 131	0	24
Dibromochloromethane			5.00	5.88		ug/L		118	62 - 141	1	22
Dibromomethane			5.00	4.97		ug/L		99	65 - 141	1	22
Ethylbenzene			5.00	5.78		ug/L		116	80 - 124	1	22
m,p-Xylene			5.00	5.36		ug/L		107	75 - 124	0	22
Methyl iodide			5.00	5.09		ug/L		102	60 - 128	3	39
Methylene Chloride			5.00	5.29		ug/L		106	40 - 142	4	25
o-Xylene			5.00	5.52		ug/L		110	71 - 124	0	23
Styrene			5.00	5.44		ug/L		109	74 - 127	0	22
Tetrachloroethene			5.00	5.18		ug/L		104	75 - 124	1	20
Toluene			5.00	5.35		ug/L		107	80 - 126	0	20
trans-1,2-Dichloroethene			5.00	5.34		ug/L		107	69 - 121	4	27
trans-1,3-Dichloropropene			5.00	5.89		ug/L		118	71 - 138	0	26
trans-1,4-Dichloro-2-butene			5.00	5.13		ug/L		103	20 - 150	1	35
Trichloroethene			5.00	5.49		ug/L		110	72 - 120	1	22
Trichlorofluoromethane			5.00	5.77		ug/L		115	60 - 132	2	32
Vinyl acetate			12.5	13.1		ug/L		104	38 - 150	0	35
Vinyl chloride			5.00	6.85		ug/L		137	41 - 150	4	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 580-380250/7
Matrix: Water
Analysis Batch: 380250

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		0.30		ug/L			02/03/22 14:29	1
1,1,1-Trichloroethane	ND		0.20		ug/L			02/03/22 14:29	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			02/03/22 14:29	1
1,1,2-Trichloroethane	ND		0.20		ug/L			02/03/22 14:29	1
1,1-Dichloroethane	ND		0.20		ug/L			02/03/22 14:29	1
1,1-Dichloroethene	ND		0.20		ug/L			02/03/22 14:29	1
1,2,3-Trichloropropane	ND		0.20		ug/L			02/03/22 14:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			02/03/22 14:29	1
1,2-Dibromoethane	ND		0.10		ug/L			02/03/22 14:29	1
1,2-Dichlorobenzene	ND		0.30		ug/L			02/03/22 14:29	1
1,2-Dichloroethane	ND		0.20		ug/L			02/03/22 14:29	1
1,2-Dichloropropane	ND		0.20		ug/L			02/03/22 14:29	1
1,4-Dichlorobenzene	ND		0.30		ug/L			02/03/22 14:29	1
2-Butanone	ND		10		ug/L			02/03/22 14:29	1

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

Lab Sample ID: MB 580-380250/7
Matrix: Water
Analysis Batch: 380250

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		3.0		ug/L			02/03/22 14:29	1
4-Methyl-2-pentanone	ND		10		ug/L			02/03/22 14:29	1
Acetone	ND		10		ug/L			02/03/22 14:29	1
Acrylonitrile	ND		10		ug/L			02/03/22 14:29	1
Benzene	ND		0.20		ug/L			02/03/22 14:29	1
Bromochloromethane	ND		0.20		ug/L			02/03/22 14:29	1
Bromodichloromethane	ND		0.20		ug/L			02/03/22 14:29	1
Bromoform	ND		0.50		ug/L			02/03/22 14:29	1
Bromomethane	ND		0.50		ug/L			02/03/22 14:29	1
Carbon disulfide	ND		0.30		ug/L			02/03/22 14:29	1
Carbon tetrachloride	ND		0.20		ug/L			02/03/22 14:29	1
Chlorobenzene	ND		0.20		ug/L			02/03/22 14:29	1
Chloroethane	ND		0.50		ug/L			02/03/22 14:29	1
Chloroform	ND		0.20		ug/L			02/03/22 14:29	1
Chloromethane	ND		0.50		ug/L			02/03/22 14:29	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 14:29	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 14:29	1
Dibromochloromethane	ND		0.20		ug/L			02/03/22 14:29	1
Dibromomethane	ND		0.20		ug/L			02/03/22 14:29	1
Ethylbenzene	ND		0.20		ug/L			02/03/22 14:29	1
m,p-Xylene	ND		0.50		ug/L			02/03/22 14:29	1
Methyl iodide	ND		0.50		ug/L			02/03/22 14:29	1
Methylene Chloride	ND		5.0		ug/L			02/03/22 14:29	1
o-Xylene	ND		0.50		ug/L			02/03/22 14:29	1
Styrene	ND		1.0		ug/L			02/03/22 14:29	1
Tetrachloroethene	ND		0.50		ug/L			02/03/22 14:29	1
Toluene	ND		0.20		ug/L			02/03/22 14:29	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			02/03/22 14:29	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			02/03/22 14:29	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			02/03/22 14:29	1
Trichloroethene	ND		0.20		ug/L			02/03/22 14:29	1
Trichlorofluoromethane	ND		0.50		ug/L			02/03/22 14:29	1
Vinyl acetate	ND		2.0		ug/L			02/03/22 14:29	1
Vinyl chloride	ND		0.020		ug/L			02/03/22 14:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*02/03/22 14:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/03/22 14:29*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*02/03/22 14:29*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*02/03/22 14:29*	*1*

Lab Sample ID: LCS 580-380250/4
Matrix: Water
Analysis Batch: 380250

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	5.15		ug/L		103	69 - 127
1,1,1-Trichloroethane	5.00	5.17		ug/L		103	70 - 121

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

Lab Sample ID: LCS 580-380250/4
Matrix: Water
Analysis Batch: 380250

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	5.00	5.23		ug/L		105	67 - 136
1,1,2-Trichloroethane	5.00	4.66		ug/L		93	73 - 127
1,1-Dichloroethane	5.00	4.94		ug/L		99	74 - 120
1,1-Dichloroethene	5.00	5.46		ug/L		109	60 - 129
1,2,3-Trichloropropane	5.00	4.91		ug/L		98	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	6.77		ug/L		135	55 - 135
1,2-Dibromoethane	5.00	5.20		ug/L		104	61 - 143
1,2-Dichlorobenzene	5.00	5.56		ug/L		111	72 - 129
1,2-Dichloroethane	5.00	5.08		ug/L		102	74 - 127
1,2-Dichloropropane	5.00	5.19		ug/L		104	69 - 130
1,4-Dichlorobenzene	5.00	4.90		ug/L		98	71 - 129
2-Butanone	25.0	28.1		ug/L		112	37 - 150
2-Hexanone	25.0	25.9		ug/L		104	56 - 150
4-Methyl-2-pentanone	25.0	25.6		ug/L		102	63 - 137
Acetone	25.0	24.2		ug/L		97	49 - 150
Acrylonitrile	50.0	57.7		ug/L		115	50 - 145
Benzene	5.00	4.46		ug/L		89	80 - 120
Bromochloromethane	5.00	5.16		ug/L		103	79 - 121
Bromodichloromethane	5.00	5.03		ug/L		101	74 - 131
Bromoform	5.00	5.72		ug/L		114	48 - 127
Bromomethane	5.00	7.01		ug/L		140	51 - 148
Carbon disulfide	5.00	5.89		ug/L		118	54 - 142
Carbon tetrachloride	5.00	5.43		ug/L		109	66 - 130
Chlorobenzene	5.00	4.78		ug/L		96	74 - 123
Chloroethane	5.00	7.47	*+	ug/L		149	54 - 140
Chloroform	5.00	4.83		ug/L		97	75 - 120
Chloromethane	5.00	8.00	*+	ug/L		160	32 - 150
cis-1,2-Dichloroethene	5.00	5.43		ug/L		109	72 - 120
cis-1,3-Dichloropropene	5.00	5.20		ug/L		104	77 - 131
Dibromochloromethane	5.00	5.74		ug/L		115	62 - 141
Dibromomethane	5.00	4.98		ug/L		100	65 - 141
Ethylbenzene	5.00	5.49		ug/L		110	80 - 124
m,p-Xylene	5.00	5.09		ug/L		102	75 - 124
Methyl iodide	5.00	4.83		ug/L		97	60 - 128
Methylene Chloride	5.00	5.15		ug/L		103	40 - 142
o-Xylene	5.00	5.24		ug/L		105	71 - 124
Styrene	5.00	5.18		ug/L		104	74 - 127
Tetrachloroethene	5.00	4.88		ug/L		98	75 - 124
Toluene	5.00	5.05		ug/L		101	80 - 126
trans-1,2-Dichloroethene	5.00	5.22		ug/L		104	69 - 121
trans-1,3-Dichloropropene	5.00	5.64		ug/L		113	71 - 138
trans-1,4-Dichloro-2-butene	5.00	4.84		ug/L		97	20 - 150
Trichloroethene	5.00	5.13		ug/L		103	72 - 120
Trichlorofluoromethane	5.00	6.35		ug/L		127	60 - 132
Vinyl acetate	12.5	12.3		ug/L		99	38 - 150
Vinyl chloride	5.00	7.41		ug/L		148	41 - 150

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

Lab Sample ID: LCS 580-380250/4
Matrix: Water
Analysis Batch: 380250

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCSD 580-380250/5
Matrix: Water
Analysis Batch: 380250

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	5.02		ug/L		100	69 - 127	3	22
1,1,1-Trichloroethane			5.00	5.02		ug/L		100	70 - 121	3	24
1,1,2,2-Tetrachloroethane			5.00	5.26		ug/L		105	67 - 136	1	24
1,1,2-Trichloroethane			5.00	4.68		ug/L		94	73 - 127	0	22
1,1-Dichloroethane			5.00	4.84		ug/L		97	74 - 120	2	26
1,1-Dichloroethene			5.00	5.22		ug/L		104	60 - 129	4	29
1,2,3-Trichloropropane			5.00	4.77		ug/L		95	67 - 135	3	25
1,2-Dibromo-3-Chloropropane			5.00	6.41		ug/L		128	55 - 135	5	29
1,2-Dibromoethane			5.00	5.17		ug/L		103	61 - 143	0	22
1,2-Dichlorobenzene			5.00	5.36		ug/L		107	72 - 129	4	22
1,2-Dichloroethane			5.00	5.00		ug/L		100	74 - 127	2	21
1,2-Dichloropropane			5.00	5.07		ug/L		101	69 - 130	2	22
1,4-Dichlorobenzene			5.00	4.72		ug/L		94	71 - 129	4	22
2-Butanone			25.0	27.9		ug/L		112	37 - 150	1	35
2-Hexanone			25.0	26.0		ug/L		104	56 - 150	0	29
4-Methyl-2-pentanone			25.0	25.9		ug/L		104	63 - 137	1	26
Acetone			25.0	23.0		ug/L		92	49 - 150	5	24
Acrylonitrile			50.0	58.1		ug/L		116	50 - 145	1	33
Benzene			5.00	4.32		ug/L		86	80 - 120	3	22
Bromochloromethane			5.00	5.10		ug/L		102	79 - 121	1	20
Bromodichloromethane			5.00	4.99		ug/L		100	74 - 131	1	21
Bromoform			5.00	5.77		ug/L		115	48 - 127	1	23
Bromomethane			5.00	6.66		ug/L		133	51 - 148	5	35
Carbon disulfide			5.00	5.71		ug/L		114	54 - 142	3	34
Carbon tetrachloride			5.00	5.20		ug/L		104	66 - 130	4	24
Chlorobenzene			5.00	4.70		ug/L		94	74 - 123	2	21
Chloroethane			5.00	7.15	*+	ug/L		143	54 - 140	4	33
Chloroform			5.00	4.71		ug/L		94	75 - 120	2	21
Chloromethane			5.00	7.32		ug/L		146	32 - 150	9	33
cis-1,2-Dichloroethene			5.00	5.24		ug/L		105	72 - 120	4	22
cis-1,3-Dichloropropene			5.00	5.13		ug/L		103	77 - 131	1	24
Dibromochloromethane			5.00	5.71		ug/L		114	62 - 141	0	22
Dibromomethane			5.00	4.94		ug/L		99	65 - 141	1	22
Ethylbenzene			5.00	5.31		ug/L		106	80 - 124	3	22
m,p-Xylene			5.00	4.93		ug/L		99	75 - 124	3	22
Methyl iodide			5.00	4.72		ug/L		94	60 - 128	2	39
Methylene Chloride			5.00	5.06		ug/L		101	40 - 142	2	25
o-Xylene			5.00	5.09		ug/L		102	71 - 124	3	23

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

Lab Sample ID: LCSD 580-380250/5
Matrix: Water
Analysis Batch: 380250

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
Styrene			5.00	5.08		ug/L		102	74 - 127	2	22
Tetrachloroethene			5.00	4.70		ug/L		94	75 - 124	4	20
Toluene			5.00	4.88		ug/L		98	80 - 126	3	20
trans-1,2-Dichloroethene			5.00	5.08		ug/L		102	69 - 121	3	27
trans-1,3-Dichloropropene			5.00	5.57		ug/L		111	71 - 138	1	26
trans-1,4-Dichloro-2-butene			5.00	4.81		ug/L		96	20 - 150	1	35
Trichloroethene			5.00	5.05		ug/L		101	72 - 120	1	22
Trichlorofluoromethane			5.00	6.16		ug/L		123	60 - 132	3	32
Vinyl acetate			12.5	12.5		ug/L		100	38 - 150	1	35
Vinyl chloride			5.00	6.90		ug/L		138	41 - 150	7	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 580-380594/7
Matrix: Water
Analysis Batch: 380594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.020		ug/L			02/08/22 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*02/08/22 14:04*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/08/22 14:04*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*02/08/22 14:04*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/08/22 14:04*	*1*

Lab Sample ID: LCS 580-380594/4
Matrix: Water
Analysis Batch: 380594

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl chloride			5.00	4.58		ug/L		92	41 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: LCSD 580-380594/5
Matrix: Water
Analysis Batch: 380594

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
Vinyl chloride			5.00	4.70		ug/L		94	41 - 150	2	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-380017/14-A
Matrix: Water
Analysis Batch: 380226

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 380017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		02/01/22 18:27	02/02/22 16:44	1
Magnesium	ND		0.50		mg/L		02/01/22 18:27	02/02/22 16:44	1
Manganese	ND		0.020		mg/L		02/01/22 18:27	02/02/22 16:44	1
Potassium	ND		3.3		mg/L		02/01/22 18:27	02/02/22 16:44	1
Sodium	ND		0.50		mg/L		02/01/22 18:27	02/02/22 16:44	1
Iron	ND		0.50		mg/L		02/01/22 18:27	02/02/22 16:44	1

Lab Sample ID: LCS 580-380017/15-A
Matrix: Water
Analysis Batch: 380226

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 380017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium			20.0	20.2		mg/L		101	80 - 120
Magnesium			20.0	19.8		mg/L		99	80 - 120
Manganese			1.00	0.988		mg/L		99	80 - 120
Potassium			20.0	19.6		mg/L		98	80 - 120
Sodium			20.0	20.5		mg/L		103	80 - 120
Iron			20.0	20.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-380017/16-A
Matrix: Water
Analysis Batch: 380226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 380017

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	1	20
Magnesium			20.0	20.0		mg/L		100	80 - 120	1	20
Manganese			1.00	0.997		mg/L		100	80 - 120	1	20
Potassium			20.0	19.8		mg/L		99	80 - 120	1	20
Sodium			20.0	20.4		mg/L		102	80 - 120	1	20
Iron			20.0	20.3		mg/L		101	80 - 120	1	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 580-380307/22-A
Matrix: Water
Analysis Batch: 380500

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		02/03/22 19:09	02/04/22 20:53	1
Magnesium	ND		0.50		mg/L		02/03/22 19:09	02/04/22 20:53	1
Manganese	ND		0.020		mg/L		02/03/22 19:09	02/04/22 20:53	1
Potassium	ND		3.3		mg/L		02/03/22 19:09	02/04/22 20:53	1
Sodium	ND		0.50		mg/L		02/03/22 19:09	02/04/22 20:53	1
Iron	ND		0.50		mg/L		02/03/22 19:09	02/04/22 20:53	1

Lab Sample ID: LCS 580-380307/23-A
Matrix: Water
Analysis Batch: 380500

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	19.1		mg/L		96	80 - 120
Magnesium	20.0	18.8		mg/L		94	80 - 120
Manganese	1.00	0.947		mg/L		95	80 - 120
Potassium	20.0	21.4		mg/L		107	80 - 120
Sodium	20.0	19.4		mg/L		97	80 - 120
Iron	20.0	22.3		mg/L		111	80 - 120

Lab Sample ID: LCSD 580-380307/24-A
Matrix: Water
Analysis Batch: 380500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	20.0	20.1		mg/L		100	80 - 120	5	20
Magnesium	20.0	19.8		mg/L		99	80 - 120	5	20
Manganese	1.00	1.01		mg/L		101	80 - 120	6	20
Potassium	20.0	21.0		mg/L		105	80 - 120	2	20
Sodium	20.0	20.7		mg/L		104	80 - 120	7	20
Iron	20.0	22.0		mg/L		110	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-380307/22-A
Matrix: Water
Analysis Batch: 380467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 12:22	1
Antimony	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 12:22	1
Barium	ND		0.0012		mg/L		02/03/22 19:09	02/04/22 12:22	1
Beryllium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:22	1
Cadmium	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:22	1
Chromium	ND		0.00080		mg/L		02/03/22 19:09	02/04/22 12:22	1
Cobalt	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:22	1
Copper	ND		0.0020		mg/L		02/03/22 19:09	02/04/22 12:22	1
Lead	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:22	1
Nickel	ND		0.0030		mg/L		02/03/22 19:09	02/04/22 12:22	1
Selenium	ND		0.0080		mg/L		02/03/22 19:09	02/04/22 12:22	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-380307/22-A
Matrix: Water
Analysis Batch: 380467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.00040		mg/L		02/03/22 19:09	02/04/22 12:22	1
Thallium	ND		0.0010		mg/L		02/03/22 19:09	02/04/22 12:22	1
Vanadium	ND		0.0040		mg/L		02/03/22 19:09	02/04/22 12:22	1
Zinc	ND		0.0070		mg/L		02/03/22 19:09	02/04/22 12:22	1

Lab Sample ID: LCS 580-380307/23-A
Matrix: Water
Analysis Batch: 380467

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.00		mg/L		100	80 - 120
Antimony	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	1.00	1.11		mg/L		111	80 - 120
Cadmium	1.00	1.01		mg/L		101	80 - 120
Chromium	1.00	1.03		mg/L		103	80 - 120
Cobalt	1.00	1.03		mg/L		103	80 - 120
Copper	1.00	1.01		mg/L		101	80 - 120
Iron	20.0	19.9		mg/L		100	80 - 120
Lead	1.00	1.04		mg/L		104	80 - 120
Nickel	1.00	1.02		mg/L		102	80 - 120
Selenium	1.00	0.950		mg/L		95	80 - 120
Silver	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Vanadium	1.00	1.04		mg/L		104	80 - 120
Zinc	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-380307/24-A
Matrix: Water
Analysis Batch: 380467

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 380307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	1.00	1.01		mg/L		101	80 - 120	1	20
Antimony	1.00	1.04		mg/L		104	80 - 120	2	20
Barium	1.00	1.04		mg/L		104	80 - 120	2	20
Beryllium	1.00	1.11		mg/L		111	80 - 120	0	20
Cadmium	1.00	1.02		mg/L		102	80 - 120	1	20
Chromium	1.00	1.03		mg/L		103	80 - 120	0	20
Cobalt	1.00	1.04		mg/L		104	80 - 120	1	20
Copper	1.00	1.01		mg/L		101	80 - 120	0	20
Iron	20.0	19.8		mg/L		99	80 - 120	1	20
Lead	1.00	1.03		mg/L		103	80 - 120	1	20
Nickel	1.00	1.02		mg/L		102	80 - 120	0	20
Selenium	1.00	0.961		mg/L		96	80 - 120	1	20
Silver	1.00	1.02		mg/L		102	80 - 120	0	20
Thallium	1.00	1.04		mg/L		104	80 - 120	1	20
Vanadium	1.00	1.04		mg/L		104	80 - 120	0	20
Zinc	1.00	1.01		mg/L		101	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-379623/12
Matrix: Water
Analysis Batch: 379623

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			01/27/22 14:43	1

Lab Sample ID: LCS 580-379623/13
Matrix: Water
Analysis Batch: 379623

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	9.87		mg/L		99	90 - 110		

Lab Sample ID: LCSD 580-379623/14
Matrix: Water
Analysis Batch: 379623

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			10.0	9.89		mg/L		99	90 - 110	0	15

Lab Sample ID: 580-109688-1 MS
Matrix: Water
Analysis Batch: 379623

Client Sample ID: 0122-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	3.6		10.0	13.0		mg/L		95	90 - 110		

Lab Sample ID: 580-109688-1 MSD
Matrix: Water
Analysis Batch: 379623

Client Sample ID: 0122-01
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	3.6		10.0	13.1		mg/L		95	90 - 110	1	15

Lab Sample ID: MB 580-379833/3
Matrix: Water
Analysis Batch: 379833

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			01/27/22 14:43	1
Chloride	ND		1.5		mg/L			01/27/22 14:43	1
Sulfate	ND		1.5		mg/L			01/27/22 14:43	1

Lab Sample ID: LCS 580-379833/4
Matrix: Water
Analysis Batch: 379833

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	4.64		mg/L		93	90 - 110		
Chloride			50.0	51.0		mg/L		102	90 - 110		
Sulfate			50.0	50.3		mg/L		101	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-379833/5
Matrix: Water
Analysis Batch: 379833

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	4.71		mg/L		94	90 - 110	1	15
Chloride			50.0	51.0		mg/L		102	90 - 110	0	15
Sulfate			50.0	50.3		mg/L		101	90 - 110	0	15

Lab Sample ID: 580-109688-1 MS
Matrix: Water
Analysis Batch: 379833

Client Sample ID: 0122-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	ND		5.00	4.84		mg/L		96	90 - 110		
Chloride	70	F1	50.0	112	F1	mg/L		84	90 - 110		
Sulfate	70	F1	50.0	115	F1	mg/L		89	90 - 110		

Lab Sample ID: 580-109688-1 MSD
Matrix: Water
Analysis Batch: 379833

Client Sample ID: 0122-01
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	4.90		mg/L		97	90 - 110	1	15
Chloride	70	F1	50.0	112	F1	mg/L		85	90 - 110	0	15
Sulfate	70	F1	50.0	115		mg/L		90	90 - 110	0	15

Lab Sample ID: MB 580-380073/3
Matrix: Water
Analysis Batch: 380073

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			02/02/22 09:14	1
Chloride	ND		1.5		mg/L			02/02/22 09:14	1
Sulfate	ND		1.5		mg/L			02/02/22 09:14	1

Lab Sample ID: LCS 580-380073/4
Matrix: Water
Analysis Batch: 380073

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	4.97		mg/L		99	90 - 110		
Chloride			50.0	52.3		mg/L		105	90 - 110		
Sulfate			50.0	51.5		mg/L		103	90 - 110		

Lab Sample ID: LCSD 580-380073/5
Matrix: Water
Analysis Batch: 380073

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	4.98		mg/L		100	90 - 110	0	15
Chloride			50.0	52.3		mg/L		105	90 - 110	0	15
Sulfate			50.0	51.5		mg/L		103	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-379679/1-A
Matrix: Water
Analysis Batch: 379719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 379679

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		01/28/22 16:27	01/28/22 22:27	1

Lab Sample ID: LCS 580-379679/2-A
Matrix: Water
Analysis Batch: 379719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 379679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.16		mg/L		108	90 - 110

Lab Sample ID: MB 580-380412/1-A
Matrix: Water
Analysis Batch: 380427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		02/04/22 17:31	02/04/22 21:35	1

Lab Sample ID: LCS 580-380412/2-A
Matrix: Water
Analysis Batch: 380427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.99		mg/L		100	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-379590/2
Matrix: Water
Analysis Batch: 379590

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	85 - 115

Lab Sample ID: 580-109688-10 DU
Matrix: Water
Analysis Batch: 379590

Client Sample ID: 0122-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	250		257		mg/L		2	17
Bicarbonate Alkalinity as CaCO3	250		257		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 580-379957/1
Matrix: Water
Analysis Batch: 379957

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			02/01/22 12:45	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-379957/2
Matrix: Water
Analysis Batch: 379957

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	878		mg/L		88	80 - 120		

Lab Sample ID: 580-109688-1 DU
Matrix: Water
Analysis Batch: 379957

Client Sample ID: 0122-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	670			655		mg/L				2	20

Lab Sample ID: 580-109688-2 DU
Matrix: Water
Analysis Batch: 379957

Client Sample ID: 0122-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	650			687		mg/L				6	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-379577/3-A
Matrix: Water
Analysis Batch: 379594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 379577

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		01/27/22 16:31	01/27/22 20:36	1

Lab Sample ID: LCS 580-379577/4-A
Matrix: Water
Analysis Batch: 379594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 379577

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			75.0	71.7		mg/L		96	80 - 120		

Lab Sample ID: LCSD 580-379577/5-A
Matrix: Water
Analysis Batch: 379594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 379577

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand			75.0	72.8		mg/L		97	80 - 120	1	20

Lab Sample ID: 580-109688-12 MS
Matrix: Water
Analysis Batch: 379594

Client Sample ID: 0122-12
Prep Type: Total/NA
Prep Batch: 379577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand	ND		25.0	25.1		mg/L		100	75 - 125		

Method: SM 5220D - COD (Continued)

Lab Sample ID: 580-109688-12 DU
Matrix: Water
Analysis Batch: 379594

Client Sample ID: 0122-12
Prep Type: Total/NA
Prep Batch: 379577

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 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-210443/35
Matrix: Water
Analysis Batch: 210443

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			01/29/22 09:08	1

Lab Sample ID: LCS 570-210443/36
Matrix: Water
Analysis Batch: 210443

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic			5.00	5.02		mg/L		100	85 - 115		

Lab Sample ID: LCSD 570-210443/37
Matrix: Water
Analysis Batch: 210443

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic			5.00	5.04		mg/L		101	85 - 115	0	20

Lab Chronicle

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-01
Date Collected: 01/26/22 10:30
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380144	02/02/22 21:56	JBT	FGS SEA
Dissolved	Prep	3005A			380017	02/01/22 18:27	JLS	FGS SEA
Dissolved	Analysis	6010D		1	380226	02/02/22 17:33	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 13:20	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 15:19	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 15:19	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			379679	01/28/22 16:27	MLT	FGS SEA
Total/NA	Analysis	350.1		1	379719	01/28/22 22:27	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 14:34	CY2M	ECL 4

Client Sample ID: 0122-02
Date Collected: 01/26/22 10:30
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380144	02/02/22 22:21	JBT	FGS SEA
Dissolved	Prep	3005A			380017	02/01/22 18:27	JLS	FGS SEA
Dissolved	Analysis	6010D		1	380226	02/02/22 17:36	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 13:24	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 16:05	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 16:05	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			379679	01/28/22 16:27	MLT	FGS SEA
Total/NA	Analysis	350.1		1	379719	01/28/22 22:27	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 14:56	CY2M	ECL 4

Client Sample ID: 0122-03
Date Collected: 01/26/22 13:45
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380144	02/02/22 22:46	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-04
Lab Sample ID: 580-109688-4
Date Collected: 01/26/22 14:40
Matrix: Water
Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 16:56	T1W	FGS SEA
Dissolved	Prep	3005A			380017	02/01/22 18:27	JLS	FGS SEA
Dissolved	Analysis	6010D		1	380226	02/02/22 17:39	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 13:28	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 16:17	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 16:17	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			380412	02/04/22 17:31	MLT	FGS SEA
Total/NA	Analysis	350.1		1	380427	02/04/22 21:35	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 15:29	CY2M	ECL 4

Client Sample ID: 0122-05
Lab Sample ID: 580-109688-5
Date Collected: 01/26/22 16:10
Matrix: Water
Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	380594	02/08/22 14:28	TL1	FGS SEA
Total/NA	Analysis	8260D		1	380250	02/03/22 17:21	T1W	FGS SEA
Dissolved	Prep	3005A			380017	02/01/22 18:27	JLS	FGS SEA
Dissolved	Analysis	6010D		1	380226	02/02/22 17:42	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 13:31	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 16:29	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 16:29	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			380412	02/04/22 17:31	MLT	FGS SEA
Total/NA	Analysis	350.1		1	380427	02/04/22 21:35	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 15:49	CY2M	ECL 4

Client Sample ID: 0122-06
Lab Sample ID: 580-109688-6
Date Collected: 01/26/22 15:00
Matrix: Water
Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	10	380594	02/08/22 14:52	TL1	FGS SEA
Total/NA	Analysis	8260D		10	380250	02/03/22 17:46	T1W	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-06
Date Collected: 01/26/22 15:00
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			380017	02/01/22 18:27	JLS	FGS SEA
Dissolved	Analysis	6010D		1	380226	02/02/22 17:46	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 13:35	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 17:04	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 17:04	E1S	FGS SEA
Total/NA	Analysis	300.0		10	380073	02/02/22 10:36	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			380412	02/04/22 17:31	MLT	FGS SEA
Total/NA	Analysis	350.1		1	380427	02/04/22 21:35	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 16:11	CY2M	ECL 4

Client Sample ID: 0122-07
Date Collected: 01/26/22 16:15
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	380594	02/08/22 15:16	TL1	FGS SEA
Total/NA	Analysis	8260D		1	380250	02/03/22 19:00	T1W	FGS SEA

Client Sample ID: 0122-08
Date Collected: 01/26/22 10:22
Date Received: 01/27/22 08:10

Lab Sample ID: 580-109688-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 19:24	T1W	FGS SEA
Dissolved	Prep	3005A			380017	02/01/22 18:27	JLS	FGS SEA
Dissolved	Analysis	6010D		1	380226	02/02/22 17:49	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 13:39	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 17:16	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 17:16	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			380412	02/04/22 17:31	MLT	FGS SEA
Total/NA	Analysis	350.1		1	380427	02/04/22 21:35	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 16:33	CY2M	ECL 4

Client Sample ID: 0122-09

Lab Sample ID: 580-109688-9

Date Collected: 01/26/22 11:15

Matrix: Water

Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 19:48	T1W	FGS SEA
Dissolved	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Dissolved	Analysis	6010D		1	380500	02/04/22 21:39	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 12:25	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 17:28	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 17:28	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			380412	02/04/22 17:31	MLT	FGS SEA
Total/NA	Analysis	350.1		1	380427	02/04/22 21:35	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 16:56	CY2M	ECL 4

Client Sample ID: 0122-10

Lab Sample ID: 580-109688-10

Date Collected: 01/26/22 12:18

Matrix: Water

Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 20:13	T1W	FGS SEA
Dissolved	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Dissolved	Analysis	6010D		1	380500	02/04/22 21:42	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 14:02	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 17:39	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 17:39	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			379679	01/28/22 16:27	MLT	FGS SEA
Total/NA	Analysis	350.1		1	379719	01/28/22 22:27	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 18:06	CY2M	ECL 4

Client Sample ID: 0122-11

Lab Sample ID: 580-109688-11

Date Collected: 01/26/22 13:15

Matrix: Water

Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 20:38	T1W	FGS SEA
Dissolved	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Dissolved	Analysis	6010D		1	380500	02/04/22 21:45	TMH	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Client Sample ID: 0122-11
Lab Sample ID: 580-109688-11
Date Collected: 01/26/22 13:15
Matrix: Water
Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 14:06	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 17:51	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 17:51	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			379679	01/28/22 16:27	MLT	FGS SEA
Total/NA	Analysis	350.1		1	379719	01/28/22 22:27	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 18:28	CY2M	ECL 4

Client Sample ID: 0122-12
Lab Sample ID: 580-109688-12
Date Collected: 01/26/22 14:00
Matrix: Water
Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 21:02	T1W	FGS SEA
Dissolved	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Dissolved	Analysis	6010D		1	380500	02/04/22 21:49	TMH	FGS SEA
Total Recoverable	Prep	3005A			380307	02/03/22 19:09	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	380467	02/04/22 14:10	FCW	FGS SEA
Total/NA	Analysis	300.0		1	379623	01/27/22 18:03	E1S	FGS SEA
Total/NA	Analysis	300.0		1	379833	01/27/22 18:03	E1S	FGS SEA
Total/NA	Prep	Distill/Ammonia			379679	01/28/22 16:27	MLT	FGS SEA
Total/NA	Analysis	350.1		1	379719	01/28/22 22:27	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	379590	01/27/22 19:14	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	379957	02/01/22 12:45	ABP	FGS SEA
Total/NA	Prep	SM 5220			379577	01/27/22 16:32	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	379594	01/27/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	210443	01/29/22 18:51	CY2M	ECL 4

Client Sample ID: TRIP BLANK
Lab Sample ID: 580-109688-13
Date Collected: 01/26/22 00:01
Matrix: Water
Date Received: 01/27/22 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	380250	02/03/22 18:35	T1W	FGS SEA

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

FGS SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-109688-1
Project/Site: Coupeville SW Facility GW Q1 2022

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
SM 2320B		Water	Alkalinity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3
SM 2540C		Water	Total Dissolved Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	11-30-21 *
California	State	2944	09-30-22
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-30-22
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q1 2022

Job ID: 580-109688-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-109688-1	0122-01	Water	01/26/22 10:30	01/27/22 08:10
580-109688-2	0122-02	Water	01/26/22 10:30	01/27/22 08:10
580-109688-3	0122-03	Water	01/26/22 13:45	01/27/22 08:10
580-109688-4	0122-04	Water	01/26/22 14:40	01/27/22 08:10
580-109688-5	0122-05	Water	01/26/22 16:10	01/27/22 08:10
580-109688-6	0122-06	Water	01/26/22 15:00	01/27/22 08:10
580-109688-7	0122-07	Water	01/26/22 16:15	01/27/22 08:10
580-109688-8	0122-08	Water	01/26/22 10:22	01/27/22 08:10
580-109688-9	0122-09	Water	01/26/22 11:15	01/27/22 08:10
580-109688-10	0122-10	Water	01/26/22 12:18	01/27/22 08:10
580-109688-11	0122-11	Water	01/26/22 13:15	01/27/22 08:10
580-109688-12	0122-12	Water	01/26/22 14:00	01/27/22 08:10
580-109688-13	TRIP BLANK	Water	01/26/22 00:01	01/27/22 08:10

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SG + PM	Lab PM: Nate Lewis	Carrier Tracking No(s):	COC No:
Client Contact: ~~Dan Vaccaro~~ Sam Graber	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 2405 140th Ave NE #107	Due Date Requested: Standard	Analysis Requested		Preservation Codes:
City: Bellevue	TAT Requested (days):			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)
State, Zip: WA 98005	Compliance Project: Δ Yes Δ No			
Phone: 425-766-3362	PO #: Purchase Order not required			Other:
Email: SGraber@SCSengineers.com	WO #:			
Project Name: Campville Solid Waste Facility 2	Project #:			
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)	COD	NH_3	Cl, F, SO_4, NO_3, Alk	Total metals	Dissolved metals	TOC	VOCs	TDS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	S	N	D	D	S	A	N	X	
0122-01	1/26/22	1030	G	W	Y	N	X	X	X	X	X	X	X	X	10	Analyze sample 0122-12 (collected at 1400) for full list of parameters. Analyze trip blanks for 8260. Not enough COCs provided for these samples.
0122-02		1030			Y		X	X	X	X	X	X	X	X	10	
0122-03		1345			N								X		3	
0122-04		1440			Y		X	X	X	X	X	X	X	X	10	
0122-05		1610			Y		X	X	X	X	X	X	X	X	10	
0122-06		1500			Y		N	X	X	X	X	X	X	X	10	
0122-07		1615			N		N						X		3	
0122-08		1022			Y		N	X	X	X	X	X	X	X	10	
0122-09		1115			Y		N	X	X	X	X	X	X	X	10	
0122-10		1218			Y		N	X	X	X	X	X	X	X	10	
0122-11		1315			Y		N	X	X	X	X	X	X	X	10	

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:	Date/Time: 1/28/22 0810	Company: SCS	Received by:	Date/Time: 1-27-22 0810	Company: EFGI
Relinquished by:	Date/Time:	Company:		Time:	Company:
Relinquished by:	Date/Time:	Company:		ne:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: SG+ RM	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Sam Graber	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #:
Address: 2405 140th Ave #101	Due Date Requested:			
City: Bellevue	TAT Requested (days): Standard			
State, Zip: WA 98005	Compliance Project: Δ Yes Δ No			
Phone: 425-746-3362	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupville Solid Waste Facility	Project #:			
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)	COD	NH3	Cl, F, SO4, N+N, Alk	total metals	dissolved metals	TOC	VOC	TDS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	S	N	D	D	S	A	N		
0127-12	1/26/22	1400	G	W	Y	N	X	X	X	X	X	X	X	X		
Trip blank													X			

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:

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: RMB	Date/Time: 1/27/22 0810	Company: SCS	Received by:	Date/Time: 1-27-22 0810 Company: EFGS
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:

Therm. ID: IR8 Cor: 2.1 ° Unc: 1.9 °
Cooler Dsc: 1 of 4
Packing: Bub
Cust. Seal: Yes ___ No ___
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Therm. ID: IR8 Cor: 5.5 ° Unc: 5.3 °
Cooler Dsc: 3 of 4
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Therm. ID: IR8 Cor: 4.0 ° Unc: 3.8 °
Cooler Dsc: 2 of 4
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Therm. ID: IR8 Cor: 4.6 ° Unc: 4.4 °
Cooler Dsc: 4 of 4
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: CD

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone 253-922-2310 Fax. 425-420-9210

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-99618 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Nathan Lewis@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-109688-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 2/9/2022			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841	PO #:			
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	WO #:			
Email	Project #: 58017418			
Project Name: Coupeville SW Facility GW Q1 2022	SSOW#:			
Site:				

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 (Lab 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0122-01 (580-109688-1)	1/26/22	10:30 Pacific		Water			X	1	
0122-02 (580-109688-2)	1/26/22	10:30 Pacific		Water			X	1	
0122-04 (580-109688-4)	1/26/22	14.40 Pacific		Water			X	1	
0122-05 (580-109688-5)	1/26/22	16.10 Pacific		Water			X	1	
0122-06 (580-109688-6)	1/26/22	15:00 Pacific		Water			X	1	
0122-08 (580-109688-8)	1/26/22	10:22 Pacific		Water			X	1	
0122-09 (580-109688-9)	1/26/22	11 15 Pacific		Water			X	1	
0122-10 (580-109688-10)	1/26/22	12:18 Pacific		Water			X	1	
0122-11 (580-109688-11)	1/26/22	13:15 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1-27-22 1425	EFS		1/28/22 1035	EEC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.: 179118	Cooler Temperature(s) °C and Other Remarks: 17/3.2 Icc

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-99618 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Nathan Lewis@Eurofinset.com	State of Origin: Washington	Page: Page 2 of 2
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-109688-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 2/9/2022			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q1 2022	Project #: 58017418			
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 (Lab 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0122-12 (580-109688-12)	1/26/22	14:00 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC

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		1-27-22 1425	EFNS		1/28/22 1035	PCG
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.: 179118	Cooler Temperature(s) °C and Other Remarks: 1.7/3.2 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-109688-1

Login Number: 109688
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins 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.	N/A	
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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-109688-1

Login Number: 109688
List Number: 2
Creator: Ortiz-Luis, Michael

List Source: Eurofins Calscience
List Creation: 01/28/22 03:05 PM

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	1791118
Sample custody seals, if present, are intact.	N/A	
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	3.2
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?	False	Received project as a subcontract.
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	

SECOND QTR. 2022 DATA VALIDATION REPORT – ISLAND CO. CSWF

Project Details

Project No.	04222010.02	**Site Name**	Island County Coupeville SWF
Data Validator	Ketan Shah	**Data Level**	Level 2
Date	5/31/22	**DV Tier**	Tier 1
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)
580-112902-1	No comments.	Eurofins TestAmerica, Seattle – Tacoma, WA
580-112965-1	No comments.	Eurofins TestAmerica, Seattle – Tacoma, WA

Analytical Summary

Sample Group	Analyses					
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC
580-112902-1	X	X	X	X	X	X
580-112965-1	X	X	X	X	X	X

Notes:

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
GC/MS VOA	Acceptable	See case narrative for additional details.
Metals	Acceptable	See case narrative for additional details.
General Chemistry	Acceptable	See case narrative for additional details.
VOA Prep	Acceptable	See case narrative for additional details.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates	580-112902-1, 580-112965-1	See below.	
Trip Blank	580-112902-1, 580-112965-1	None detected.	

Lab Quality Flags

Lab Qualifiers	Description	Lab Group
F1	MS and/or MSD Recovery is outside acceptance limits.	580-112902-1, 580-112965-1
H	Sample was prepped or analyzed beyond the specified holding time	580-112902-1
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	580-112902-1, 580-112965-1
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.	580-112965-1
*+	LCS and/or LCSD is outside acceptance limits, high biased.	580-112902-1

Field Duplicate Evaluation

Analyte	Units	N2D	N2D (Dup)	RPD (%)	N3D	N3D (Dup)	RPD (%)
Alkalinity	mg/L	430	460	6.7	260	260	0.0
Arsenic	mg/L	0.0029	0.003	3.4	0.008	0.0077	3.8
Barium	mg/L	0.029	0.029	0.0	0.031	0.028	10.2
Bicarbonate	mg/L	430	460	6.7	260	260	0.0
Calcium	mg/L	100	110	9.5	68	71	4.3
Chloride	mg/L	71	71	0.0	38	38	0.0
Lead	mg/L	0.0004 U	0.0004 U	N/A	0.0004	0.0004 U	0.0
Magnesium	mg/L	67	69	2.9	25	26	3.9
Manganese	mg/L	0.02 U	0.02 U	N/A	0.025	0.052	70.1
Nickel	mg/L	0.0046	0.0044	4.4	0.003 U	0.003 U	N/A
Nitrate/Nitrite, Total	mg/L	3.6	3.8	5.4	0.4 U	0.4 U	N/A
Sodium	mg/L	38	39	2.6	19	20	5.1
Sulfate	mg/L	82	71	14.4	27	25	7.7
Total Dissolved Solids	mg/L	640	590	8.1	370	360	2.7
Total Organic Carbon	mg/L	1.8	1.9	5.4	0.75	0.71	5.5

Analyte	Units	N2D	N2D (Dup)	RPD (%)	N3D	N3D (Dup)	RPD (%)
Trichlorofluoromethane	ug/L	0.50 U	0.56	11.3	0.50 U	0.50 U	N/A

* RPD based on result as compared to the Reporting Limit (RL) for a non-detection in the compared sample

U = Result was not detected at or above a concentration greater than the RL. Value provided is the RL for the given sample.

N/A = Not applicable. Both results compared were non-detect.

Additional Data Flags

Flag	Description
U	Not detected above the method reporting limit.

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-112902-1
Client Project/Site: Coupeville SW Facility GW Q2 2022

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Sam Graber

Kristine D. Allen

Authorized for release by:
5/6/2022 3:52:52 PM
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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: 580-112902-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-112902-1

Comments
No additional comments.

Receipt
The samples were received on 4/21/2022 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.2º C, 4.7º C, 5.2º C and 5.2º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 580-388411 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 associated samples are impacted: 0422-27 (580-112902-1), 0422-26 (580-112902-2), 0422-09 (580-112902-3), 0422-10 (580-112902-4), 0422-11 (580-112902-5), 0422-15 (580-112902-7), 0422-19 (580-112902-8), 0422-29 (580-112902-9) and (CCVIS 580-388411/2).

Method 8260D: The CCV for analytical batch 580-388411 recovered outside control limits for the following analyte(s): Carbon disulfide has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample (LCS) for analytical batch 580-388411 recovered outside control limits for the following analytes: Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-389143 recovered above the upper control limit for trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 0422-20 (580-112902-10), 0422-18 (580-112902-11), 0422-17 (580-112902-12), 0422-28 (580-112902-13), 0422-16 (580-112902-14), 0422-04 (580-112902-15), 0422-05 (580-112902-16), Trip Blank (580-112902-17) and (CCVIS 580-389143/2).

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-389143 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-389143 was outside criteria for the following analyte(s): 1,1,2-Trichloroethane. 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 8260D: The CCV for analytical batch 580-389143 recovered outside control limits for the following analyte(s): Bromomethane, Chloroethane, Chloromethane, and Dichlorodifluoromethane have been identified as poor performing analytes when analyzed using this method; therefore, these results have been reported and qualified.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0422-05 (580-112902-16). Elevated reporting limits (RLs) are provided.

Method 8260D: Reanalysis of the following sample was performed outside of the analytical holding time due to instrument maintenance : 0422-05 (580-112902-16).

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 above or in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-388481 were outside control limits.

Job ID: 580-112902-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-388670 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Definitions/Glossary

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-27
Date Collected: 04/20/22 10:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 21:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 21:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 21:03	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 21:03	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 21:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 21:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 21:03	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 21:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 21:03	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 21:03	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 21:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 21:03	1
2-Butanone	ND		10		ug/L			04/24/22 21:03	1
2-Hexanone	ND		3.0		ug/L			04/24/22 21:03	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 21:03	1
Acetone	ND		10		ug/L			04/24/22 21:03	1
Acrylonitrile	ND		10		ug/L			04/24/22 21:03	1
Benzene	ND		0.20		ug/L			04/24/22 21:03	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 21:03	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 21:03	1
Bromoform	ND		0.50		ug/L			04/24/22 21:03	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 21:03	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 21:03	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 21:03	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 21:03	1
Chloroform	ND		0.20		ug/L			04/24/22 21:03	1
Chloromethane	ND		0.50		ug/L			04/24/22 21:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 21:03	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 21:03	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 21:03	1
Dibromomethane	ND		0.20		ug/L			04/24/22 21:03	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 21:03	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 21:03	1
Methyl iodide	ND		0.50		ug/L			04/24/22 21:03	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 21:03	1
o-Xylene	ND		0.50		ug/L			04/24/22 21:03	1
Styrene	ND		1.0		ug/L			04/24/22 21:03	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 21:03	1
Toluene	ND		0.20		ug/L			04/24/22 21:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 21:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 21:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 21:03	1
Trichloroethene	ND		0.20		ug/L			04/24/22 21:03	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 21:03	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 21:03	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/24/22 21:03*	*1*

Client Sample ID: 0422-27
Date Collected: 04/20/22 10:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/24/22 21:03*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/24/22 21:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/24/22 21:03*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/28/22 15:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*04/28/22 15:08*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*04/28/22 15:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/28/22 15:08*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**96**		0.50		mg/L		04/29/22 17:25	05/02/22 19:46	1
Iron	**1.0**		0.30		mg/L		04/29/22 17:25	05/02/22 19:46	1
Magnesium	**53**		0.50		mg/L		04/29/22 17:25	05/02/22 19:46	1
Manganese	**0.080**		0.020		mg/L		04/29/22 17:25	05/02/22 19:46	1
Potassium	**7.0**		3.3		mg/L		04/29/22 17:25	05/02/22 19:46	1
Sodium	**27**		0.50		mg/L		04/29/22 17:25	05/02/22 19:46	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:17	1
Arsenic	**0.0067**		0.0010		mg/L		04/28/22 19:27	04/29/22 16:17	1
Barium	**0.048**		0.0012		mg/L		04/28/22 19:27	04/29/22 16:17	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:17	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:17	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:17	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:17	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 16:17	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:17	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 16:17	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 16:17	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:17	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 16:17	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 16:17	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 21:15	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 21:15	1
Chloride	**55**		1.5		mg/L			04/21/22 21:15	1
Sulfate	**46**		1.5		mg/L			04/21/22 21:15	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.2**		0.50		mg/L			05/04/22 02:54	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-27
Lab Sample ID: 580-112902-1
Date Collected: 04/20/22 10:40
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**420**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**420**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**560**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-26
Date Collected: 04/20/22 11:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 21:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 21:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 21:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 21:28	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 21:28	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 21:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 21:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 21:28	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 21:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 21:28	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 21:28	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 21:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 21:28	1
2-Butanone	ND		10		ug/L			04/24/22 21:28	1
2-Hexanone	ND		3.0		ug/L			04/24/22 21:28	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 21:28	1
Acetone	ND		10		ug/L			04/24/22 21:28	1
Acrylonitrile	ND		10		ug/L			04/24/22 21:28	1
Benzene	ND		0.20		ug/L			04/24/22 21:28	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 21:28	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 21:28	1
Bromoform	ND		0.50		ug/L			04/24/22 21:28	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 21:28	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 21:28	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 21:28	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 21:28	1
Chloroform	ND		0.20		ug/L			04/24/22 21:28	1
Chloromethane	ND		0.50		ug/L			04/24/22 21:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 21:28	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 21:28	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 21:28	1
Dibromomethane	ND		0.20		ug/L			04/24/22 21:28	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 21:28	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 21:28	1
Methyl iodide	ND		0.50		ug/L			04/24/22 21:28	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 21:28	1
o-Xylene	ND		0.50		ug/L			04/24/22 21:28	1
Styrene	ND		1.0		ug/L			04/24/22 21:28	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 21:28	1
Toluene	ND		0.20		ug/L			04/24/22 21:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 21:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 21:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 21:28	1
Trichloroethene	ND		0.20		ug/L			04/24/22 21:28	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 21:28	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 21:28	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*04/24/22 21:28*	*1*

Client Sample ID: 0422-26
Date Collected: 04/20/22 11:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/24/22 21:28*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/24/22 21:28*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/24/22 21:28*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*04/28/22 15:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/28/22 15:32*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*04/28/22 15:32*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*04/28/22 15:32*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**30**		0.50		mg/L		04/29/22 17:25	05/02/22 19:49	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 19:49	1
Magnesium	**33**		0.50		mg/L		04/29/22 17:25	05/02/22 19:49	1
Manganese	**0.032**		0.020		mg/L		04/29/22 17:25	05/02/22 19:49	1
Potassium	**14**		3.3		mg/L		04/29/22 17:25	05/02/22 19:49	1
Sodium	**14**		0.50		mg/L		04/29/22 17:25	05/02/22 19:49	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:00	1
Arsenic	**0.022**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:00	1
Barium	**0.027**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:00	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:00	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:00	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:00	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:00	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:00	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:00	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 17:00	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:00	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:00	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:00	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 17:00	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 21:26	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 21:26	1
Chloride	**41**		1.5		mg/L			04/21/22 21:26	1
Sulfate	**18**		1.5		mg/L			04/21/22 21:26	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.2**		0.50		mg/L			05/04/22 03:18	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-26
Lab Sample ID: 580-112902-2
Date Collected: 04/20/22 11:40
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**200**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**200**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**250**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-09
Date Collected: 04/20/22 13:01
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 21:52	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 21:52	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 21:52	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 21:52	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 21:52	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 21:52	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 21:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 21:52	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 21:52	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 21:52	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 21:52	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 21:52	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 21:52	1
2-Butanone	ND		10		ug/L			04/24/22 21:52	1
2-Hexanone	ND		3.0		ug/L			04/24/22 21:52	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 21:52	1
Acetone	ND		10		ug/L			04/24/22 21:52	1
Acrylonitrile	ND		10		ug/L			04/24/22 21:52	1
Benzene	ND		0.20		ug/L			04/24/22 21:52	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 21:52	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 21:52	1
Bromoform	ND		0.50		ug/L			04/24/22 21:52	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 21:52	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 21:52	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 21:52	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 21:52	1
Chloroform	ND		0.20		ug/L			04/24/22 21:52	1
Chloromethane	ND		0.50		ug/L			04/24/22 21:52	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 21:52	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 21:52	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 21:52	1
Dibromomethane	ND		0.20		ug/L			04/24/22 21:52	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 21:52	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 21:52	1
Methyl iodide	ND		0.50		ug/L			04/24/22 21:52	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 21:52	1
o-Xylene	ND		0.50		ug/L			04/24/22 21:52	1
Styrene	ND		1.0		ug/L			04/24/22 21:52	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 21:52	1
Toluene	ND		0.20		ug/L			04/24/22 21:52	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 21:52	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 21:52	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 21:52	1
Trichloroethene	ND		0.20		ug/L			04/24/22 21:52	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 21:52	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 21:52	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/24/22 21:52*	*1*

Client Sample ID: 0422-09
Date Collected: 04/20/22 13:01
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/24/22 21:52*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/24/22 21:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/24/22 21:52*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*04/28/22 15:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/28/22 15:57*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*04/28/22 15:57*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*04/28/22 15:57*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		04/29/22 17:25	05/02/22 19:53	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 19:53	1
Magnesium	**36**		0.50		mg/L		04/29/22 17:25	05/02/22 19:53	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 19:53	1
Potassium	**5.3**		3.3		mg/L		04/29/22 17:25	05/02/22 19:53	1
Sodium	**18**		0.50		mg/L		04/29/22 17:25	05/02/22 19:53	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:04	1
Arsenic	**0.0024**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:04	1
Barium	**0.034**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:04	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:04	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:04	1
Chromium	**0.0045**		0.00080		mg/L		04/28/22 19:27	04/29/22 17:04	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:04	1
Copper	**0.0024**		0.0020		mg/L		04/28/22 19:27	04/29/22 17:04	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:04	1
Nickel	**0.0046**		0.0030		mg/L		04/28/22 19:27	04/29/22 17:04	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:04	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:04	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:04	1
Vanadium	**0.0051**		0.0040		mg/L		04/28/22 19:27	04/29/22 17:04	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 21:38	1
Nitrate Nitrite as N	**8.3**		0.40		mg/L			04/21/22 21:38	1
Chloride	**22**		1.5		mg/L			04/21/22 21:38	1
Sulfate	**93**		1.5		mg/L			04/21/22 21:38	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.0**		0.50		mg/L			05/04/22 03:41	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-09
Lab Sample ID: 580-112902-3
Date Collected: 04/20/22 13:01
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**300**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**300**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**530**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-10
Date Collected: 04/20/22 14:00
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 22:17	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 22:17	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 22:17	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 22:17	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 22:17	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 22:17	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 22:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 22:17	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 22:17	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 22:17	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 22:17	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 22:17	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 22:17	1
2-Butanone	ND		10		ug/L			04/24/22 22:17	1
2-Hexanone	ND		3.0		ug/L			04/24/22 22:17	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 22:17	1
Acetone	ND		10		ug/L			04/24/22 22:17	1
Acrylonitrile	ND		10		ug/L			04/24/22 22:17	1
Benzene	ND		0.20		ug/L			04/24/22 22:17	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 22:17	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 22:17	1
Bromoform	ND		0.50		ug/L			04/24/22 22:17	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 22:17	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 22:17	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 22:17	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 22:17	1
Chloroform	ND		0.20		ug/L			04/24/22 22:17	1
Chloromethane	ND		0.50		ug/L			04/24/22 22:17	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 22:17	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 22:17	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 22:17	1
Dibromomethane	ND		0.20		ug/L			04/24/22 22:17	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 22:17	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 22:17	1
Methyl iodide	ND		0.50		ug/L			04/24/22 22:17	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 22:17	1
o-Xylene	ND		0.50		ug/L			04/24/22 22:17	1
Styrene	ND		1.0		ug/L			04/24/22 22:17	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 22:17	1
Toluene	ND		0.20		ug/L			04/24/22 22:17	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 22:17	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 22:17	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 22:17	1
Trichloroethene	ND		0.20		ug/L			04/24/22 22:17	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 22:17	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 22:17	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/24/22 22:17*	*1*

Client Sample ID: 0422-10
Date Collected: 04/20/22 14:00
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/24/22 22:17*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/24/22 22:17*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/24/22 22:17*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*04/28/22 16:42*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*04/28/22 16:42*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*04/28/22 16:42*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*04/28/22 16:42*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**55**		0.50		mg/L		04/29/22 17:25	05/02/22 19:56	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 19:56	1
Magnesium	**32**		0.50		mg/L		04/29/22 17:25	05/02/22 19:56	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 19:56	1
Potassium	**5.5**		3.3		mg/L		04/29/22 17:25	05/02/22 19:56	1
Sodium	**23**		0.50		mg/L		04/29/22 17:25	05/02/22 19:56	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:08	1
Arsenic	**0.0077**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:08	1
Barium	**0.017**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:08	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:08	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:08	1
Chromium	**0.0012**		0.00080		mg/L		04/28/22 19:27	04/29/22 17:08	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:08	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:08	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:08	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 17:08	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:08	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:08	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:08	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 17:08	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 21:50	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 21:50	1
Chloride	**35**		1.5		mg/L			04/21/22 21:50	1
Sulfate	**38**		1.5		mg/L			04/21/22 21:50	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**0.81**		0.50		mg/L			05/04/22 04:04	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-10
Lab Sample ID: 580-112902-4
Date Collected: 04/20/22 14:00
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**260**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**260**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**380**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-11
Date Collected: 04/20/22 15:36
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 22:42	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 22:42	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 22:42	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 22:42	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 22:42	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 22:42	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 22:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 22:42	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 22:42	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 22:42	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 22:42	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 22:42	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 22:42	1
2-Butanone	ND		10		ug/L			04/24/22 22:42	1
2-Hexanone	ND		3.0		ug/L			04/24/22 22:42	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 22:42	1
Acetone	ND		10		ug/L			04/24/22 22:42	1
Acrylonitrile	ND		10		ug/L			04/24/22 22:42	1
Benzene	ND		0.20		ug/L			04/24/22 22:42	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 22:42	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 22:42	1
Bromoform	ND		0.50		ug/L			04/24/22 22:42	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 22:42	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 22:42	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 22:42	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 22:42	1
Chloroform	ND		0.20		ug/L			04/24/22 22:42	1
Chloromethane	ND		0.50		ug/L			04/24/22 22:42	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 22:42	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 22:42	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 22:42	1
Dibromomethane	ND		0.20		ug/L			04/24/22 22:42	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 22:42	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 22:42	1
Methyl iodide	ND		0.50		ug/L			04/24/22 22:42	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 22:42	1
o-Xylene	ND		0.50		ug/L			04/24/22 22:42	1
Styrene	ND		1.0		ug/L			04/24/22 22:42	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 22:42	1
Toluene	ND		0.20		ug/L			04/24/22 22:42	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 22:42	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 22:42	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 22:42	1
Trichloroethene	ND		0.20		ug/L			04/24/22 22:42	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 22:42	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 22:42	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/24/22 22:42*	*1*

Client Sample ID: 0422-11
Date Collected: 04/20/22 15:36
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/24/22 22:42*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*04/24/22 22:42*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/24/22 22:42*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/28/22 17:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/28/22 17:06*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*04/28/22 17:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/28/22 17:06*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		04/29/22 17:25	05/02/22 19:59	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 19:59	1
Magnesium	**84**		0.50		mg/L		04/29/22 17:25	05/02/22 19:59	1
Manganese	**0.13**		0.020		mg/L		04/29/22 17:25	05/02/22 19:59	1
Potassium	**9.3**		3.3		mg/L		04/29/22 17:25	05/02/22 19:59	1
Sodium	**42**		0.50		mg/L		04/29/22 17:25	05/02/22 19:59	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:11	1
Arsenic	**0.0033**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:11	1
Barium	**0.084**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:11	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:11	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:11	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:11	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:11	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:11	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:11	1
Nickel	**0.0078**		0.0030		mg/L		04/28/22 19:27	04/29/22 17:11	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:11	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:11	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:11	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 17:11	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 22:02	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 22:02	1
Chloride	**91**		1.5		mg/L			04/21/22 22:02	1
Sulfate	**82**		1.5		mg/L			04/21/22 22:02	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**2.4**		0.50		mg/L			05/04/22 04:26	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-11
Lab Sample ID: 580-112902-5
Date Collected: 04/20/22 15:36
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**550**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**550**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**830**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-24
Lab Sample ID: 580-112902-6
Date Collected: 04/20/22 17:45
Matrix: Water
Date Received: 04/21/22 15:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	14		2.0		mg/L			04/21/22 23:12	5

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-15
Date Collected: 04/20/22 18:15
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 23:06	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 23:06	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 23:06	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 23:06	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 23:06	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 23:06	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 23:06	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 23:06	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 23:06	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 23:06	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 23:06	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 23:06	1
2-Butanone	ND		10		ug/L			04/24/22 23:06	1
2-Hexanone	ND		3.0		ug/L			04/24/22 23:06	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 23:06	1
Acetone	ND		10		ug/L			04/24/22 23:06	1
Acrylonitrile	ND		10		ug/L			04/24/22 23:06	1
Benzene	ND		0.20		ug/L			04/24/22 23:06	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 23:06	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 23:06	1
Bromoform	ND		0.50		ug/L			04/24/22 23:06	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 23:06	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 23:06	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 23:06	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 23:06	1
Chloroform	ND		0.20		ug/L			04/24/22 23:06	1
Chloromethane	ND		0.50		ug/L			04/24/22 23:06	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 23:06	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 23:06	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 23:06	1
Dibromomethane	ND		0.20		ug/L			04/24/22 23:06	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 23:06	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 23:06	1
Methyl iodide	ND		0.50		ug/L			04/24/22 23:06	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 23:06	1
o-Xylene	ND		0.50		ug/L			04/24/22 23:06	1
Styrene	ND		1.0		ug/L			04/24/22 23:06	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 23:06	1
Toluene	ND		0.20		ug/L			04/24/22 23:06	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 23:06	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 23:06	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 23:06	1
Trichloroethene	ND		0.20		ug/L			04/24/22 23:06	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 23:06	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 23:06	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*04/24/22 23:06*	*1*

Client Sample ID: 0422-15
Date Collected: 04/20/22 18:15
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*04/24/22 23:06*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*04/24/22 23:06*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*04/24/22 23:06*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/28/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*04/28/22 17:31*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*04/28/22 17:31*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/28/22 17:31*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**76**		0.50		mg/L		04/29/22 17:25	05/02/22 20:03	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:03	1
Magnesium	**42**		0.50		mg/L		04/29/22 17:25	05/02/22 20:03	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 20:03	1
Potassium	**5.0**		3.3		mg/L		04/29/22 17:25	05/02/22 20:03	1
Sodium	**26**		0.50		mg/L		04/29/22 17:25	05/02/22 20:03	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:15	1
Arsenic	**0.0039**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:15	1
Barium	**0.021**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:15	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:15	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:15	1
Chromium	**0.0030**		0.00080		mg/L		04/28/22 19:27	04/29/22 17:15	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:15	1
Copper	**0.0047**		0.0020		mg/L		04/28/22 19:27	04/29/22 17:15	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:15	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 17:15	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:15	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:15	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:15	1
Vanadium	**0.0066**		0.0040		mg/L		04/28/22 19:27	04/29/22 17:15	1
Zinc	**0.0097**		0.0070		mg/L		04/28/22 19:27	04/29/22 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 23:24	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 23:24	1
Chloride	**64**		1.5		mg/L			04/21/22 23:24	1
Sulfate	**58**		1.5		mg/L			04/21/22 23:24	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.9**		0.50		mg/L			05/04/22 04:49	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-15
Lab Sample ID: 580-112902-7
Date Collected: 04/20/22 18:15
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**310**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**450**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-19
Date Collected: 04/20/22 10:25
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 23:30	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 23:30	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 23:30	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 23:30	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 23:30	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 23:30	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 23:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 23:30	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 23:30	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 23:30	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 23:30	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 23:30	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 23:30	1
2-Butanone	ND		10		ug/L			04/24/22 23:30	1
2-Hexanone	ND		3.0		ug/L			04/24/22 23:30	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 23:30	1
Acetone	ND		10		ug/L			04/24/22 23:30	1
Acrylonitrile	ND		10		ug/L			04/24/22 23:30	1
Benzene	ND		0.20		ug/L			04/24/22 23:30	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 23:30	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 23:30	1
Bromoform	ND		0.50		ug/L			04/24/22 23:30	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 23:30	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 23:30	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 23:30	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 23:30	1
Chloroform	ND		0.20		ug/L			04/24/22 23:30	1
Chloromethane	ND		0.50		ug/L			04/24/22 23:30	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 23:30	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 23:30	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 23:30	1
Dibromomethane	ND		0.20		ug/L			04/24/22 23:30	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 23:30	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 23:30	1
Methyl iodide	ND		0.50		ug/L			04/24/22 23:30	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 23:30	1
o-Xylene	ND		0.50		ug/L			04/24/22 23:30	1
Styrene	ND		1.0		ug/L			04/24/22 23:30	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 23:30	1
Toluene	ND		0.20		ug/L			04/24/22 23:30	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 23:30	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 23:30	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 23:30	1
Trichloroethene	ND		0.20		ug/L			04/24/22 23:30	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 23:30	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 23:30	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*04/24/22 23:30*	*1*

Client Sample ID: 0422-19
Date Collected: 04/20/22 10:25
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/24/22 23:30*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*04/24/22 23:30*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/24/22 23:30*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/28/22 17:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/28/22 17:55*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*04/28/22 17:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/28/22 17:55*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**68**		0.50		mg/L		04/29/22 17:25	05/02/22 20:06	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:06	1
Magnesium	**25**		0.50		mg/L		04/29/22 17:25	05/02/22 20:06	1
Manganese	**0.025**		0.020		mg/L		04/29/22 17:25	05/02/22 20:06	1
Potassium	**5.6**		3.3		mg/L		04/29/22 17:25	05/02/22 20:06	1
Sodium	**19**		0.50		mg/L		04/29/22 17:25	05/02/22 20:06	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:19	1
Arsenic	**0.0080**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:19	1
Barium	**0.031**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:19	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:19	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:19	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:19	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:19	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:19	1
Lead	**0.00040**		0.00040		mg/L		04/28/22 19:27	04/29/22 17:19	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 17:19	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:19	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:19	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:19	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 17:19	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 23:35	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 23:35	1
Chloride	**38**		1.5		mg/L			04/21/22 23:35	1
Sulfate	**27**		1.5		mg/L			04/21/22 23:35	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**0.75**		0.50		mg/L			05/04/22 05:11	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-19
Lab Sample ID: 580-112902-8
Date Collected: 04/20/22 10:25
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**260**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**260**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**370**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-29
Date Collected: 04/20/22 10:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			04/24/22 23:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 23:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 23:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 23:55	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 23:55	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 23:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 23:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 23:55	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 23:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 23:55	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 23:55	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 23:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 23:55	1
2-Butanone	ND		10		ug/L			04/24/22 23:55	1
2-Hexanone	ND		3.0		ug/L			04/24/22 23:55	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 23:55	1
Acetone	ND		10		ug/L			04/24/22 23:55	1
Acrylonitrile	ND		10		ug/L			04/24/22 23:55	1
Benzene	ND		0.20		ug/L			04/24/22 23:55	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 23:55	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 23:55	1
Bromoform	ND		0.50		ug/L			04/24/22 23:55	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 23:55	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 23:55	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 23:55	1
Chloroethane	ND	*+	0.50		ug/L			04/24/22 23:55	1
Chloroform	ND		0.20		ug/L			04/24/22 23:55	1
Chloromethane	ND		0.50		ug/L			04/24/22 23:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 23:55	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 23:55	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 23:55	1
Dibromomethane	ND		0.20		ug/L			04/24/22 23:55	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 23:55	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 23:55	1
Methyl iodide	ND		0.50		ug/L			04/24/22 23:55	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 23:55	1
o-Xylene	ND		0.50		ug/L			04/24/22 23:55	1
Styrene	ND		1.0		ug/L			04/24/22 23:55	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 23:55	1
Toluene	ND		0.20		ug/L			04/24/22 23:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 23:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 23:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 23:55	1
Trichloroethene	ND		0.20		ug/L			04/24/22 23:55	1
Trichlorofluoromethane	ND	*+	0.50		ug/L			04/24/22 23:55	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 23:55	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*04/24/22 23:55*	*1*

Client Sample ID: 0422-29
Date Collected: 04/20/22 10:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*04/24/22 23:55*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*04/24/22 23:55*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*04/24/22 23:55*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*04/28/22 18:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/28/22 18:20*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*04/28/22 18:20*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*04/28/22 18:20*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**71**		0.50		mg/L		04/29/22 17:25	05/02/22 20:17	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:17	1
Magnesium	**26**		0.50		mg/L		04/29/22 17:25	05/02/22 20:17	1
Manganese	**0.052**		0.020		mg/L		04/29/22 17:25	05/02/22 20:17	1
Potassium	**5.7**		3.3		mg/L		04/29/22 17:25	05/02/22 20:17	1
Sodium	**20**		0.50		mg/L		04/29/22 17:25	05/02/22 20:17	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:23	1
Arsenic	**0.0077**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:23	1
Barium	**0.028**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:23	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:23	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:23	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:23	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:23	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:23	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:23	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 17:23	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:23	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:23	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:23	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 17:23	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 23:47	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/21/22 23:47	1
Chloride	**38**		1.5		mg/L			04/21/22 23:47	1
Sulfate	**25**		1.5		mg/L			04/21/22 23:47	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**0.71**		0.50		mg/L			05/04/22 05:33	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-29
Lab Sample ID: 580-112902-9
Date Collected: 04/20/22 10:40
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**260**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**260**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**360**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-20
Date Collected: 04/20/22 11:30
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 18:15	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 18:15	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 18:15	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 18:15	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 18:15	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 18:15	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 18:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 18:15	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 18:15	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 18:15	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 18:15	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 18:15	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 18:15	1
2-Butanone	ND		10		ug/L			05/02/22 18:15	1
2-Hexanone	ND		3.0		ug/L			05/02/22 18:15	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 18:15	1
Acrylonitrile	ND		10		ug/L			05/02/22 18:15	1
Benzene	ND		0.20		ug/L			05/02/22 18:15	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 18:15	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 18:15	1
Bromoform	ND		0.50		ug/L			05/02/22 18:15	1
Bromomethane	ND		0.50		ug/L			05/02/22 18:15	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 18:15	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 18:15	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 18:15	1
Chloroethane	ND		0.50		ug/L			05/02/22 18:15	1
Chloroform	ND		0.20		ug/L			05/02/22 18:15	1
Chloromethane	ND		0.50		ug/L			05/02/22 18:15	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 18:15	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 18:15	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 18:15	1
Dibromomethane	ND		0.20		ug/L			05/02/22 18:15	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 18:15	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 18:15	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 18:15	1
o-Xylene	ND		0.50		ug/L			05/02/22 18:15	1
Styrene	ND		1.0		ug/L			05/02/22 18:15	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 18:15	1
Toluene	ND		0.20		ug/L			05/02/22 18:15	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 18:15	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 18:15	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 18:15	1
Trichloroethene	ND		0.20		ug/L			05/02/22 18:15	1
Trichlorofluoromethane	**1.3**		0.50		ug/L			05/02/22 18:15	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 18:15	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*05/02/22 18:15*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/02/22 18:15*	*1*

Client Sample ID: 0422-20
Date Collected: 04/20/22 11:30
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-10
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/02/22 18:15*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/02/22 18:15*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 19:34	1
Methyl iodide	ND		0.50		ug/L			05/04/22 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/04/22 19:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/04/22 19:34*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/04/22 19:34*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/04/22 19:34*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		0.50		mg/L		04/29/22 17:25	05/02/22 20:21	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:21	1
Magnesium	**43**		0.50		mg/L		04/29/22 17:25	05/02/22 20:21	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 20:21	1
Potassium	**5.6**		3.3		mg/L		04/29/22 17:25	05/02/22 20:21	1
Sodium	**26**		0.50		mg/L		04/29/22 17:25	05/02/22 20:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:27	1
Arsenic	**0.0023**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:27	1
Barium	**0.033**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:27	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:27	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:27	1
Chromium	**0.010**		0.00080		mg/L		04/28/22 19:27	04/29/22 17:27	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:27	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:27	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:27	1
Nickel	**0.0030**		0.0030		mg/L		04/28/22 19:27	04/29/22 17:27	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:27	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:27	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:27	1
Vanadium	**0.0054**		0.0040		mg/L		04/28/22 19:27	04/29/22 17:27	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/21/22 23:59	1
Nitrate Nitrite as N	**7.6**		0.40		mg/L			04/21/22 23:59	1
Chloride	**31**		1.5		mg/L			04/21/22 23:59	1
Sulfate	**70**		1.5		mg/L			04/21/22 23:59	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.0**		0.50		mg/L			05/04/22 05:56	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-20
Lab Sample ID: 580-112902-10
Date Collected: 04/20/22 11:30
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**400**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**400**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**540**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-18
Date Collected: 04/20/22 12:30
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-11
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 18:39	1
1,1,1-Trichloroethane	**0.34**		0.20		ug/L			05/02/22 18:39	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 18:39	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 18:39	1
1,1-Dichloroethane	**0.34**		0.20		ug/L			05/02/22 18:39	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 18:39	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 18:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 18:39	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 18:39	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 18:39	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 18:39	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 18:39	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 18:39	1
2-Butanone	ND		10		ug/L			05/02/22 18:39	1
2-Hexanone	ND		3.0		ug/L			05/02/22 18:39	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 18:39	1
Acrylonitrile	ND		10		ug/L			05/02/22 18:39	1
Benzene	ND		0.20		ug/L			05/02/22 18:39	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 18:39	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 18:39	1
Bromoform	ND		0.50		ug/L			05/02/22 18:39	1
Bromomethane	ND		0.50		ug/L			05/02/22 18:39	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 18:39	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 18:39	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 18:39	1
Chloroethane	ND		0.50		ug/L			05/02/22 18:39	1
Chloroform	ND		0.20		ug/L			05/02/22 18:39	1
Chloromethane	ND		0.50		ug/L			05/02/22 18:39	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 18:39	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 18:39	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 18:39	1
Dibromomethane	ND		0.20		ug/L			05/02/22 18:39	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 18:39	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 18:39	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 18:39	1
o-Xylene	ND		0.50		ug/L			05/02/22 18:39	1
Styrene	ND		1.0		ug/L			05/02/22 18:39	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 18:39	1
Toluene	ND		0.20		ug/L			05/02/22 18:39	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 18:39	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 18:39	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 18:39	1
Trichloroethene	ND		0.20		ug/L			05/02/22 18:39	1
Trichlorofluoromethane	**3.7**		0.50		ug/L			05/02/22 18:39	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*05/02/22 18:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*05/02/22 18:39*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*05/02/22 18:39*	*1*

Client Sample ID: 0422-18
Date Collected: 04/20/22 12:30
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-11
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/02/22 18:39*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 19:59	1
Methyl iodide	ND		0.50		ug/L			05/04/22 19:59	1
Vinyl chloride	ND		0.020		ug/L			05/04/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*05/04/22 19:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/04/22 19:59*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/04/22 19:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/04/22 19:59*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		0.50		mg/L		04/29/22 17:25	05/02/22 20:24	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:24	1
Magnesium	**78**		0.50		mg/L		04/29/22 17:25	05/02/22 20:24	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 20:24	1
Potassium	**9.3**		3.3		mg/L		04/29/22 17:25	05/02/22 20:24	1
Sodium	**31**		0.50		mg/L		04/29/22 17:25	05/02/22 20:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:31	1
Arsenic	**0.0012**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:31	1
Barium	**0.051**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:31	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:31	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:31	1
Chromium	**0.0062**		0.00080		mg/L		04/28/22 19:27	04/29/22 17:31	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:31	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:31	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:31	1
Nickel	**0.0038**		0.0030		mg/L		04/28/22 19:27	04/29/22 17:31	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:31	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:31	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:31	1
Vanadium	**0.0048**		0.0040		mg/L		04/28/22 19:27	04/29/22 17:31	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/22/22 00:22	1
Nitrate Nitrite as N	**6.5**		0.40		mg/L			04/22/22 00:22	1
Chloride	**22**		1.5		mg/L			04/22/22 00:22	1
Sulfate	**91**		1.5		mg/L			04/22/22 00:22	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.4**		0.50		mg/L			05/04/22 06:18	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-18
Lab Sample ID: 580-112902-11
Date Collected: 04/20/22 12:30
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**620**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**620**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**720**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-17
Date Collected: 04/20/22 13:20
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-12
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 19:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 19:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 19:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 19:03	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 19:03	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 19:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 19:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 19:03	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 19:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 19:03	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 19:03	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 19:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 19:03	1
2-Butanone	ND		10		ug/L			05/02/22 19:03	1
2-Hexanone	ND		3.0		ug/L			05/02/22 19:03	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 19:03	1
Acrylonitrile	ND		10		ug/L			05/02/22 19:03	1
Benzene	ND		0.20		ug/L			05/02/22 19:03	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 19:03	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 19:03	1
Bromoform	ND		0.50		ug/L			05/02/22 19:03	1
Bromomethane	ND		0.50		ug/L			05/02/22 19:03	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 19:03	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 19:03	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 19:03	1
Chloroethane	ND		0.50		ug/L			05/02/22 19:03	1
Chloroform	ND		0.20		ug/L			05/02/22 19:03	1
Chloromethane	ND		0.50		ug/L			05/02/22 19:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 19:03	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 19:03	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 19:03	1
Dibromomethane	ND		0.20		ug/L			05/02/22 19:03	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 19:03	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 19:03	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 19:03	1
o-Xylene	ND		0.50		ug/L			05/02/22 19:03	1
Styrene	ND		1.0		ug/L			05/02/22 19:03	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 19:03	1
Toluene	ND		0.20		ug/L			05/02/22 19:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 19:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 19:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 19:03	1
Trichloroethene	ND		0.20		ug/L			05/02/22 19:03	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 19:03	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 19:03	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/02/22 19:03*	*1*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*05/02/22 19:03*	*1*

Client Sample ID: 0422-17
Date Collected: 04/20/22 13:20
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-12
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*05/02/22 19:03*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/02/22 19:03*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 20:23	1
Methyl iodide	ND		0.50		ug/L			05/04/22 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*05/04/22 20:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/04/22 20:23*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*05/04/22 20:23*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/04/22 20:23*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		0.50		mg/L		04/29/22 17:25	05/02/22 20:27	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:27	1
Magnesium	**67**		0.50		mg/L		04/29/22 17:25	05/02/22 20:27	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 20:27	1
Potassium	**7.8**		3.3		mg/L		04/29/22 17:25	05/02/22 20:27	1
Sodium	**38**		0.50		mg/L		04/29/22 17:25	05/02/22 20:27	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:34	1
Arsenic	**0.0029**		0.0010		mg/L		04/28/22 19:27	04/29/22 17:34	1
Barium	**0.029**		0.0012		mg/L		04/28/22 19:27	04/29/22 17:34	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:34	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:34	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 17:34	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:34	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 17:34	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:34	1
Nickel	**0.0046**		0.0030		mg/L		04/28/22 19:27	04/29/22 17:34	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 17:34	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 17:34	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 17:34	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 17:34	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1	0.20		mg/L			04/22/22 00:46	1
Nitrate Nitrite as N	**3.6**	**F1**	0.40		mg/L			04/22/22 00:46	1
Chloride	**71**	**F1**	1.5		mg/L			04/22/22 00:46	1
Sulfate	**82**	**F1**	1.5		mg/L			04/22/22 00:46	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.8**		0.50		mg/L			05/04/22 07:36	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-17
Lab Sample ID: 580-112902-12
Date Collected: 04/20/22 13:20
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**430**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**430**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**640**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-28
Date Collected: 04/20/22 13:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-13
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 19:28	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 19:28	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 19:28	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 19:28	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 19:28	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 19:28	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 19:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 19:28	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 19:28	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 19:28	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 19:28	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 19:28	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 19:28	1
2-Butanone	ND		10		ug/L			05/02/22 19:28	1
2-Hexanone	ND		3.0		ug/L			05/02/22 19:28	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 19:28	1
Acrylonitrile	ND		10		ug/L			05/02/22 19:28	1
Benzene	ND		0.20		ug/L			05/02/22 19:28	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 19:28	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 19:28	1
Bromoform	ND		0.50		ug/L			05/02/22 19:28	1
Bromomethane	ND		0.50		ug/L			05/02/22 19:28	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 19:28	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 19:28	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 19:28	1
Chloroethane	ND		0.50		ug/L			05/02/22 19:28	1
Chloroform	ND		0.20		ug/L			05/02/22 19:28	1
Chloromethane	ND		0.50		ug/L			05/02/22 19:28	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 19:28	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 19:28	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 19:28	1
Dibromomethane	ND		0.20		ug/L			05/02/22 19:28	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 19:28	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 19:28	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 19:28	1
o-Xylene	ND		0.50		ug/L			05/02/22 19:28	1
Styrene	ND		1.0		ug/L			05/02/22 19:28	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 19:28	1
Toluene	ND		0.20		ug/L			05/02/22 19:28	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 19:28	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 19:28	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 19:28	1
Trichloroethene	ND		0.20		ug/L			05/02/22 19:28	1
Trichlorofluoromethane	**0.56**		0.50		ug/L			05/02/22 19:28	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 19:28	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/02/22 19:28*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/02/22 19:28*	*1*

Client Sample ID: 0422-28
Date Collected: 04/20/22 13:40
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-13
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/02/22 19:28*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/02/22 19:28*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 20:47	1
Methyl iodide	ND		0.50		ug/L			05/04/22 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*05/04/22 20:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/04/22 20:47*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*05/04/22 20:47*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/04/22 20:47*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		04/29/22 17:25	05/02/22 20:31	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:31	1
Magnesium	**69**		0.50		mg/L		04/29/22 17:25	05/02/22 20:31	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 20:31	1
Potassium	**8.0**		3.3		mg/L		04/29/22 17:25	05/02/22 20:31	1
Sodium	**39**		0.50		mg/L		04/29/22 17:25	05/02/22 20:31	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:10	1
Arsenic	**0.0030**		0.0010		mg/L		04/28/22 19:27	04/29/22 16:10	1
Barium	**0.029**		0.0012		mg/L		04/28/22 19:27	04/29/22 16:10	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:10	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:10	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:10	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:10	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 16:10	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:10	1
Nickel	**0.0044**		0.0030		mg/L		04/28/22 19:27	04/29/22 16:10	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 16:10	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:10	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 16:10	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 16:10	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/22/22 01:56	1
Nitrate Nitrite as N	**3.8**		0.40		mg/L			04/22/22 01:56	1
Chloride	**71**		1.5		mg/L			04/22/22 01:56	1
Sulfate	**71**		1.5		mg/L			04/22/22 01:56	1
Ammonia	ND		0.50		mg/L		04/28/22 19:29	04/29/22 22:25	1
Carbon, Total Organic	**1.9**		0.50		mg/L			05/04/22 08:09	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-28
Lab Sample ID: 580-112902-13
Date Collected: 04/20/22 13:40
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**460**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**460**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**590**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-16
Date Collected: 04/20/22 15:20
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 19:53	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 19:53	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 19:53	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 19:53	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 19:53	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 19:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 19:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 19:53	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 19:53	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 19:53	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 19:53	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 19:53	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 19:53	1
2-Butanone	ND		10		ug/L			05/02/22 19:53	1
2-Hexanone	ND		3.0		ug/L			05/02/22 19:53	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 19:53	1
Acrylonitrile	ND		10		ug/L			05/02/22 19:53	1
Benzene	ND		0.20		ug/L			05/02/22 19:53	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 19:53	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 19:53	1
Bromoform	ND		0.50		ug/L			05/02/22 19:53	1
Bromomethane	ND		0.50		ug/L			05/02/22 19:53	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 19:53	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 19:53	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 19:53	1
Chloroethane	ND		0.50		ug/L			05/02/22 19:53	1
Chloroform	ND		0.20		ug/L			05/02/22 19:53	1
Chloromethane	ND		0.50		ug/L			05/02/22 19:53	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 19:53	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 19:53	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 19:53	1
Dibromomethane	ND		0.20		ug/L			05/02/22 19:53	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 19:53	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 19:53	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 19:53	1
o-Xylene	ND		0.50		ug/L			05/02/22 19:53	1
Styrene	ND		1.0		ug/L			05/02/22 19:53	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 19:53	1
Toluene	ND		0.20		ug/L			05/02/22 19:53	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 19:53	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 19:53	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 19:53	1
Trichloroethene	ND		0.20		ug/L			05/02/22 19:53	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 19:53	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 19:53	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*05/02/22 19:53*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/02/22 19:53*	*1*

Client Sample ID: 0422-16
Date Collected: 04/20/22 15:20
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-14
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/02/22 19:53*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/02/22 19:53*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 21:11	1
Methyl iodide	ND		0.50		ug/L			05/04/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/04/22 21:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/04/22 21:11*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*05/04/22 21:11*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/04/22 21:11*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		0.50		mg/L		04/29/22 17:25	05/02/22 20:34	1
Iron	**0.33**		0.30		mg/L		04/29/22 17:25	05/02/22 20:34	1
Magnesium	**91**		0.50		mg/L		04/29/22 17:25	05/02/22 20:34	1
Manganese	**0.32**		0.020		mg/L		04/29/22 17:25	05/02/22 20:34	1
Potassium	**9.0**		3.3		mg/L		04/29/22 17:25	05/02/22 20:34	1
Sodium	**44**		0.50		mg/L		04/29/22 17:25	05/02/22 20:34	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:14	1
Arsenic	**0.0056**		0.0010		mg/L		04/28/22 19:27	04/29/22 16:14	1
Barium	**0.11**		0.0012		mg/L		04/28/22 19:27	04/29/22 16:14	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:14	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:14	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:14	1
Cobalt	**0.00044**		0.00040		mg/L		04/28/22 19:27	04/29/22 16:14	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 16:14	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:14	1
Nickel	**0.0086**		0.0030		mg/L		04/28/22 19:27	04/29/22 16:14	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 16:14	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:14	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 16:14	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 16:14	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/22/22 02:19	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/22/22 02:19	1
Chloride	**110**		7.5		mg/L			04/22/22 02:31	5
Sulfate	**140**		7.5		mg/L			04/22/22 02:31	5
Ammonia	ND		0.50		mg/L		04/28/22 19:29	04/29/22 22:25	1
Carbon, Total Organic	**3.3**		0.50		mg/L			05/04/22 08:29	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-16
Lab Sample ID: 580-112902-14
Date Collected: 04/20/22 15:20
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**490**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**490**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**770**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-04
Date Collected: 04/20/22 16:30
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-15
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 20:17	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 20:17	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 20:17	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 20:17	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 20:17	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 20:17	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 20:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 20:17	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 20:17	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 20:17	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 20:17	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 20:17	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 20:17	1
2-Butanone	ND		10		ug/L			05/02/22 20:17	1
2-Hexanone	ND		3.0		ug/L			05/02/22 20:17	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 20:17	1
Acrylonitrile	ND		10		ug/L			05/02/22 20:17	1
Benzene	ND		0.20		ug/L			05/02/22 20:17	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 20:17	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 20:17	1
Bromoform	ND		0.50		ug/L			05/02/22 20:17	1
Bromomethane	ND		0.50		ug/L			05/02/22 20:17	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 20:17	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 20:17	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 20:17	1
Chloroethane	ND		0.50		ug/L			05/02/22 20:17	1
Chloroform	ND		0.20		ug/L			05/02/22 20:17	1
Chloromethane	ND		0.50		ug/L			05/02/22 20:17	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 20:17	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 20:17	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 20:17	1
Dibromomethane	ND		0.20		ug/L			05/02/22 20:17	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 20:17	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 20:17	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 20:17	1
o-Xylene	ND		0.50		ug/L			05/02/22 20:17	1
Styrene	ND		1.0		ug/L			05/02/22 20:17	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 20:17	1
Toluene	ND		0.20		ug/L			05/02/22 20:17	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 20:17	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 20:17	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 20:17	1
Trichloroethene	ND		0.20		ug/L			05/02/22 20:17	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 20:17	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 20:17	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*05/02/22 20:17*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/02/22 20:17*	*1*

Client Sample ID: 0422-04
Date Collected: 04/20/22 16:30
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-15
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/02/22 20:17*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/02/22 20:17*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 21:36	1
Methyl iodide	ND		0.50		ug/L			05/04/22 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/04/22 21:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/04/22 21:36*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/04/22 21:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/04/22 21:36*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65**		0.50		mg/L		04/29/22 17:25	05/02/22 20:38	1
Iron	**1.6**		0.30		mg/L		04/29/22 17:25	05/02/22 20:38	1
Magnesium	**32**		0.50		mg/L		04/29/22 17:25	05/02/22 20:38	1
Manganese	**0.54**		0.020		mg/L		04/29/22 17:25	05/02/22 20:38	1
Potassium	**5.5**		3.3		mg/L		04/29/22 17:25	05/02/22 20:38	1
Sodium	**31**		0.50		mg/L		04/29/22 17:25	05/02/22 20:38	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/02/22 18:01	05/03/22 15:18	1
Arsenic	**0.0017**		0.0010		mg/L		05/02/22 18:01	05/03/22 15:18	1
Barium	**0.077**		0.0012		mg/L		05/02/22 18:01	05/03/22 15:18	1
Beryllium	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:18	1
Cadmium	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:18	1
Chromium	ND		0.00080		mg/L		05/02/22 18:01	05/03/22 15:18	1
Cobalt	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:18	1
Copper	ND		0.0020		mg/L		05/02/22 18:01	05/03/22 15:18	1
Lead	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:18	1
Nickel	ND		0.0030		mg/L		05/02/22 18:01	05/03/22 15:18	1
Selenium	ND		0.0080		mg/L		05/02/22 18:01	05/03/22 15:18	1
Silver	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:18	1
Thallium	ND		0.0010		mg/L		05/02/22 18:01	05/03/22 15:18	1
Vanadium	ND		0.0040		mg/L		05/02/22 18:01	05/03/22 15:18	1
Zinc	ND		0.0070		mg/L		05/02/22 18:01	05/03/22 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/22/22 02:43	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/22/22 02:43	1
Chloride	**17**		1.5		mg/L			04/22/22 02:43	1
Sulfate	**28**		1.5		mg/L			04/22/22 02:43	1
Ammonia	ND		0.50		mg/L		04/28/22 19:29	04/29/22 22:25	1
Carbon, Total Organic	**1.4**		0.50		mg/L			05/04/22 08:51	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-04
Lab Sample ID: 580-112902-15
Date Collected: 04/20/22 16:30
Matrix: Water
Date Received: 04/21/22 15:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**330**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**370**		10		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: 0422-05
Date Collected: 04/20/22 18:10
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-16
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 20:42	1
1,1,1-Trichloroethane	**0.48**		0.20		ug/L			05/02/22 20:42	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 20:42	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 20:42	1
1,1-Dichloroethane	**2.6**		0.20		ug/L			05/02/22 20:42	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 20:42	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 20:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 20:42	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 20:42	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 20:42	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 20:42	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 20:42	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 20:42	1
2-Butanone	ND		10		ug/L			05/02/22 20:42	1
2-Hexanone	ND		3.0		ug/L			05/02/22 20:42	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 20:42	1
Acrylonitrile	ND		10		ug/L			05/02/22 20:42	1
Benzene	ND		0.20		ug/L			05/02/22 20:42	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 20:42	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 20:42	1
Bromoform	ND		0.50		ug/L			05/02/22 20:42	1
Bromomethane	ND		0.50		ug/L			05/02/22 20:42	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 20:42	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 20:42	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 20:42	1
Chloroethane	ND		0.50		ug/L			05/02/22 20:42	1
Chloroform	ND		0.20		ug/L			05/02/22 20:42	1
Chloromethane	ND		0.50		ug/L			05/02/22 20:42	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 20:42	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 20:42	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 20:42	1
Dibromomethane	ND		0.20		ug/L			05/02/22 20:42	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 20:42	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 20:42	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 20:42	1
o-Xylene	ND		0.50		ug/L			05/02/22 20:42	1
Styrene	ND		1.0		ug/L			05/02/22 20:42	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 20:42	1
Toluene	ND		0.20		ug/L			05/02/22 20:42	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 20:42	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 20:42	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 20:42	1
Trichloroethene	ND		0.20		ug/L			05/02/22 20:42	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*05/02/22 20:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/02/22 20:42*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/02/22 20:42*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/02/22 20:42*	*1*

Client Sample ID: 0422-05
Date Collected: 04/20/22 18:10
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-16
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**88**	**H**	2.5		ug/L			05/05/22 15:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*05/05/22 15:00*	*5*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/05/22 15:00*	*5*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/05/22 15:00*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/05/22 15:00*	*5*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 22:00	1
Methyl iodide	ND		0.50		ug/L			05/04/22 22:00	1
Vinyl chloride	**1.9**		0.020		ug/L			05/04/22 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*05/04/22 22:00*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/04/22 22:00*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/04/22 22:00*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/04/22 22:00*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**250**		0.50		mg/L		04/29/22 17:25	05/02/22 20:41	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 20:41	1
Magnesium	**100**		0.50		mg/L		04/29/22 17:25	05/02/22 20:41	1
Manganese	**0.70**		0.020		mg/L		04/29/22 17:25	05/02/22 20:41	1
Potassium	**8.9**		3.3		mg/L		04/29/22 17:25	05/02/22 20:41	1
Sodium	**36**		0.50		mg/L		04/29/22 17:25	05/02/22 20:41	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/02/22 18:01	05/03/22 15:22	1
Arsenic	**0.0020**		0.0010		mg/L		05/02/22 18:01	05/03/22 15:22	1
Barium	**0.067**		0.0012		mg/L		05/02/22 18:01	05/03/22 15:22	1
Beryllium	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:22	1
Cadmium	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:22	1
Chromium	ND		0.00080		mg/L		05/02/22 18:01	05/03/22 15:22	1
Cobalt	**0.0029**		0.00040		mg/L		05/02/22 18:01	05/03/22 15:22	1
Copper	**0.0041**		0.0020		mg/L		05/02/22 18:01	05/03/22 15:22	1
Lead	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:22	1
Nickel	**0.030**		0.0030		mg/L		05/02/22 18:01	05/03/22 15:22	1
Selenium	ND		0.0080		mg/L		05/02/22 18:01	05/03/22 15:22	1
Silver	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 15:22	1
Thallium	ND		0.0010		mg/L		05/02/22 18:01	05/03/22 15:22	1
Vanadium	**0.0093**		0.0040		mg/L		05/02/22 18:01	05/03/22 15:22	1
Zinc	ND		0.0070		mg/L		05/02/22 18:01	05/03/22 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.29**		0.20		mg/L			04/22/22 02:54	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/22/22 02:54	1

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-05
Lab Sample ID: 580-112902-16
Date Collected: 04/20/22 18:10
Matrix: Water
Date Received: 04/21/22 15:00

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50**		1.5		mg/L			04/22/22 02:54	1
Sulfate	**280**		7.5		mg/L			04/25/22 21:28	5
Ammonia	ND		0.50		mg/L		04/28/22 19:29	04/29/22 22:25	1
Carbon, Total Organic	**19**		0.50		mg/L			05/04/22 09:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**770**		7.0		mg/L			04/27/22 16:53	1
Bicarbonate Alkalinity as CaCO3	**770**		7.0		mg/L			04/27/22 16:53	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/27/22 16:53	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/27/22 16:53	1
Total Dissolved Solids	**1500**		20		mg/L			04/27/22 12:36	1
Chemical Oxygen Demand	**54**		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Client Sample ID: Trip Blank
Date Collected: 04/20/22 00:00
Date Received: 04/21/22 15:00

Lab Sample ID: 580-112902-17
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 17:50	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 17:50	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 17:50	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 17:50	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 17:50	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 17:50	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 17:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 17:50	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 17:50	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 17:50	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 17:50	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 17:50	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 17:50	1
2-Butanone	ND		10		ug/L			05/02/22 17:50	1
2-Hexanone	ND		3.0		ug/L			05/02/22 17:50	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 17:50	1
Acrylonitrile	ND		10		ug/L			05/02/22 17:50	1
Benzene	ND		0.20		ug/L			05/02/22 17:50	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 17:50	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 17:50	1
Bromoform	ND		0.50		ug/L			05/02/22 17:50	1
Bromomethane	ND		0.50		ug/L			05/02/22 17:50	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 17:50	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 17:50	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 17:50	1
Chloroethane	ND		0.50		ug/L			05/02/22 17:50	1
Chloroform	ND		0.20		ug/L			05/02/22 17:50	1
Chloromethane	ND		0.50		ug/L			05/02/22 17:50	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 17:50	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 17:50	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 17:50	1
Dibromomethane	ND		0.20		ug/L			05/02/22 17:50	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 17:50	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 17:50	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 17:50	1
o-Xylene	ND		0.50		ug/L			05/02/22 17:50	1
Styrene	ND		1.0		ug/L			05/02/22 17:50	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 17:50	1
Toluene	ND		0.20		ug/L			05/02/22 17:50	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 17:50	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 17:50	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 17:50	1
Trichloroethene	ND		0.20		ug/L			05/02/22 17:50	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 17:50	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 17:50	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*05/02/22 17:50*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/02/22 17:50*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 580-112902-17
Date Collected: 04/20/22 00:00
Matrix: Water
Date Received: 04/21/22 15:00

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/02/22 17:50*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/02/22 17:50*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 22:24	1
Methyl iodide	ND		0.50		ug/L			05/04/22 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/04/22 22:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/04/22 22:24*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*05/04/22 22:24*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/04/22 22:24*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-388411/6
Matrix: Water
Analysis Batch: 388411

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		0.30		ug/L			04/24/22 16:08	1
1,1,1-Trichloroethane	ND		0.20		ug/L			04/24/22 16:08	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			04/24/22 16:08	1
1,1,2-Trichloroethane	ND		0.20		ug/L			04/24/22 16:08	1
1,1-Dichloroethane	ND		0.20		ug/L			04/24/22 16:08	1
1,1-Dichloroethene	ND		0.20		ug/L			04/24/22 16:08	1
1,2,3-Trichloropropane	ND		0.20		ug/L			04/24/22 16:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			04/24/22 16:08	1
1,2-Dibromoethane	ND		0.10		ug/L			04/24/22 16:08	1
1,2-Dichlorobenzene	ND		0.30		ug/L			04/24/22 16:08	1
1,2-Dichloroethane	ND		0.20		ug/L			04/24/22 16:08	1
1,2-Dichloropropane	ND		0.20		ug/L			04/24/22 16:08	1
1,4-Dichlorobenzene	ND		0.30		ug/L			04/24/22 16:08	1
2-Butanone	ND		10		ug/L			04/24/22 16:08	1
2-Hexanone	ND		3.0		ug/L			04/24/22 16:08	1
4-Methyl-2-pentanone	ND		10		ug/L			04/24/22 16:08	1
Acetone	ND		10		ug/L			04/24/22 16:08	1
Acrylonitrile	ND		10		ug/L			04/24/22 16:08	1
Benzene	ND		0.20		ug/L			04/24/22 16:08	1
Bromochloromethane	ND		0.20		ug/L			04/24/22 16:08	1
Bromodichloromethane	ND		0.20		ug/L			04/24/22 16:08	1
Bromoform	ND		0.50		ug/L			04/24/22 16:08	1
Carbon disulfide	ND		0.30		ug/L			04/24/22 16:08	1
Carbon tetrachloride	ND		0.20		ug/L			04/24/22 16:08	1
Chlorobenzene	ND		0.20		ug/L			04/24/22 16:08	1
Chloroethane	ND		0.50		ug/L			04/24/22 16:08	1
Chloroform	ND		0.20		ug/L			04/24/22 16:08	1
Chloromethane	ND		0.50		ug/L			04/24/22 16:08	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 16:08	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 16:08	1
Dibromochloromethane	ND		0.20		ug/L			04/24/22 16:08	1
Dibromomethane	ND		0.20		ug/L			04/24/22 16:08	1
Ethylbenzene	ND		0.20		ug/L			04/24/22 16:08	1
m,p-Xylene	ND		0.50		ug/L			04/24/22 16:08	1
Methyl iodide	ND		0.50		ug/L			04/24/22 16:08	1
Methylene Chloride	ND		5.0		ug/L			04/24/22 16:08	1
o-Xylene	ND		0.50		ug/L			04/24/22 16:08	1
Styrene	ND		1.0		ug/L			04/24/22 16:08	1
Tetrachloroethene	ND		0.50		ug/L			04/24/22 16:08	1
Toluene	ND		0.20		ug/L			04/24/22 16:08	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			04/24/22 16:08	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			04/24/22 16:08	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			04/24/22 16:08	1
Trichloroethene	ND		0.20		ug/L			04/24/22 16:08	1
Trichlorofluoromethane	ND		0.50		ug/L			04/24/22 16:08	1
Vinyl acetate	ND		2.0		ug/L			04/24/22 16:08	1
Vinyl chloride	ND		0.020		ug/L			04/24/22 16:08	1

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

Lab Sample ID: MB 580-388411/6
Matrix: Water
Analysis Batch: 388411

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/24/22 16:08	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/24/22 16:08	1
Dibromofluoromethane (Surr)	96		80 - 120		04/24/22 16:08	1
Toluene-d8 (Surr)	103		80 - 120		04/24/22 16:08	1

Lab Sample ID: LCS 580-388411/3
Matrix: Water
Analysis Batch: 388411

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	5.22		ug/L		104	69 - 127
1,1,1-Trichloroethane	5.00	4.57		ug/L		91	70 - 121
1,1,2,2-Tetrachloroethane	5.00	4.79		ug/L		96	67 - 136
1,1,2-Trichloroethane	5.00	5.13		ug/L		103	73 - 127
1,1-Dichloroethane	5.00	4.44		ug/L		89	74 - 120
1,1-Dichloroethene	5.00	6.40		ug/L		128	60 - 129
1,2,3-Trichloropropane	5.00	4.84		ug/L		97	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.37		ug/L		87	55 - 135
1,2-Dibromoethane	5.00	4.85		ug/L		97	61 - 143
1,2-Dichlorobenzene	5.00	5.30		ug/L		106	72 - 129
1,2-Dichloroethane	5.00	4.44		ug/L		89	74 - 127
1,2-Dichloropropane	5.00	4.24		ug/L		85	69 - 130
1,4-Dichlorobenzene	5.00	5.18		ug/L		104	71 - 129
2-Butanone	25.0	20.4		ug/L		82	37 - 150
2-Hexanone	25.0	22.6		ug/L		90	56 - 150
4-Methyl-2-pentanone	25.0	23.2		ug/L		93	63 - 137
Acetone	25.0	34.0		ug/L		136	49 - 150
Acrylonitrile	50.0	44.8		ug/L		90	50 - 145
Benzene	5.00	4.58		ug/L		92	80 - 120
Bromochloromethane	5.00	4.67		ug/L		93	79 - 121
Bromodichloromethane	5.00	3.98		ug/L		80	74 - 131
Bromoform	5.00	4.11		ug/L		82	48 - 127
Carbon disulfide	5.00	4.45		ug/L		89	54 - 142
Carbon tetrachloride	5.00	4.51		ug/L		90	66 - 130
Chlorobenzene	5.00	4.87		ug/L		97	74 - 123
Chloroethane	5.00	8.30	*+	ug/L		166	54 - 140
Chloroform	5.00	4.59		ug/L		92	75 - 120
Chloromethane	5.00	6.75		ug/L		135	32 - 150
cis-1,2-Dichloroethene	5.00	4.44		ug/L		89	72 - 120
cis-1,3-Dichloropropene	5.00	4.18		ug/L		84	77 - 131
Dibromochloromethane	5.00	4.09		ug/L		82	62 - 141
Dibromomethane	5.00	4.51		ug/L		90	65 - 141
Ethylbenzene	5.00	5.22		ug/L		104	80 - 124
m,p-Xylene	5.00	5.11		ug/L		102	75 - 124
Methyl iodide	5.00	5.79		ug/L		116	60 - 128
Methylene Chloride	5.00	4.94	J	ug/L		99	40 - 142
o-Xylene	5.00	5.08		ug/L		102	71 - 124
Styrene	5.00	5.19		ug/L		104	74 - 127

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

Lab Sample ID: LCS 580-388411/3
Matrix: Water
Analysis Batch: 388411

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tetrachloroethene			5.00	4.92		ug/L		98	75 - 124		
Toluene			5.00	5.15		ug/L		103	80 - 126		
trans-1,2-Dichloroethene			5.00	4.70		ug/L		94	69 - 121		
trans-1,3-Dichloropropene			5.00	4.05		ug/L		81	71 - 138		
trans-1,4-Dichloro-2-butene			5.00	3.60		ug/L		72	20 - 150		
Trichloroethene			5.00	4.53		ug/L		91	72 - 120		
Trichlorofluoromethane			5.00	6.92	*+	ug/L		138	60 - 132		
Vinyl acetate			12.5	9.15		ug/L		73	38 - 150		
Vinyl chloride			5.00	6.77		ug/L		135	41 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 580-388411/4
Matrix: Water
Analysis Batch: 388411

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	4.96		ug/L		99	69 - 127	5	22
1,1,1-Trichloroethane			5.00	4.11		ug/L		82	70 - 121	11	24
1,1,2,2-Tetrachloroethane			5.00	4.99		ug/L		100	67 - 136	4	24
1,1,2-Trichloroethane			5.00	5.40		ug/L		108	73 - 127	5	22
1,1-Dichloroethane			5.00	4.24		ug/L		85	74 - 120	5	26
1,1-Dichloroethene			5.00	5.38		ug/L		108	60 - 129	17	29
1,2,3-Trichloropropane			5.00	5.17		ug/L		103	67 - 135	7	25
1,2-Dibromo-3-Chloropropane			5.00	4.30		ug/L		86	55 - 135	2	29
1,2-Dibromoethane			5.00	4.79		ug/L		96	61 - 143	1	22
1,2-Dichlorobenzene			5.00	5.16		ug/L		103	72 - 129	3	22
1,2-Dichloroethane			5.00	4.45		ug/L		89	74 - 127	0	21
1,2-Dichloropropane			5.00	4.30		ug/L		86	69 - 130	2	22
1,4-Dichlorobenzene			5.00	5.05		ug/L		101	71 - 129	2	22
2-Butanone			25.0	21.2		ug/L		85	37 - 150	4	35
2-Hexanone			25.0	23.8		ug/L		95	56 - 150	5	29
4-Methyl-2-pentanone			25.0	24.5		ug/L		98	63 - 137	5	26
Acetone			25.0	33.7		ug/L		135	49 - 150	1	24
Acrylonitrile			50.0	40.7		ug/L		81	50 - 145	9	33
Benzene			5.00	4.49		ug/L		90	80 - 120	2	22
Bromochloromethane			5.00	4.40		ug/L		88	79 - 121	6	20
Bromodichloromethane			5.00	4.04		ug/L		81	74 - 131	1	21
Bromoform			5.00	3.88		ug/L		78	48 - 127	6	23
Carbon disulfide			5.00	3.32		ug/L		66	54 - 142	29	34
Carbon tetrachloride			5.00	4.04		ug/L		81	66 - 130	11	24
Chlorobenzene			5.00	4.83		ug/L		97	74 - 123	1	21
Chloroethane			5.00	6.83		ug/L		137	54 - 140	19	33
Chloroform			5.00	4.45		ug/L		89	75 - 120	3	21

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

Lab Sample ID: LCSD 580-388411/4
Matrix: Water
Analysis Batch: 388411

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	5.41		ug/L		108	32 - 150	22	33
cis-1,2-Dichloroethene	5.00	4.18		ug/L		84	72 - 120	6	22
cis-1,3-Dichloropropene	5.00	4.31		ug/L		86	77 - 131	3	24
Dibromochloromethane	5.00	4.22		ug/L		84	62 - 141	3	22
Dibromomethane	5.00	4.32		ug/L		86	65 - 141	4	22
Ethylbenzene	5.00	5.10		ug/L		102	80 - 124	2	22
m,p-Xylene	5.00	4.98		ug/L		100	75 - 124	3	22
Methyl iodide	5.00	4.78		ug/L		96	60 - 128	19	39
Methylene Chloride	5.00	4.34	J	ug/L		87	40 - 142	13	25
o-Xylene	5.00	4.78		ug/L		96	71 - 124	6	23
Styrene	5.00	4.88		ug/L		98	74 - 127	6	22
Tetrachloroethene	5.00	4.94		ug/L		99	75 - 124	0	20
Toluene	5.00	5.27		ug/L		105	80 - 126	2	20
trans-1,2-Dichloroethene	5.00	4.19		ug/L		84	69 - 121	11	27
trans-1,3-Dichloropropene	5.00	4.12		ug/L		82	71 - 138	2	26
trans-1,4-Dichloro-2-butene	5.00	3.56		ug/L		71	20 - 150	1	35
Trichloroethene	5.00	4.42		ug/L		88	72 - 120	2	22
Trichlorofluoromethane	5.00	5.91		ug/L		118	60 - 132	16	32
Vinyl acetate	12.5	9.66		ug/L		77	38 - 150	5	35
Vinyl chloride	5.00	5.61		ug/L		112	41 - 150	19	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: MB 580-388832/6
Matrix: Water
Analysis Batch: 388832

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50		ug/L			04/28/22 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*04/28/22 14:19*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*04/28/22 14:19*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*04/28/22 14:19*	*1*
Toluene-d8 (Surr)	*114*		*80 - 120*		*04/28/22 14:19*	*1*

Lab Sample ID: LCS 580-388832/3
Matrix: Water
Analysis Batch: 388832

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	5.00	4.37		ug/L		87	51 - 148

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

Lab Sample ID: LCS 580-388832/3
Matrix: Water
Analysis Batch: 388832

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*108*		*80 - 120*

Lab Sample ID: LCSD 580-388832/4
Matrix: Water
Analysis Batch: 388832

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
Bromomethane			5.00	4.80		ug/L		96	51 - 148	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 580-389143/6
Matrix: Water
Analysis Batch: 389143

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		0.30		ug/L			05/02/22 17:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 17:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 17:01	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 17:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 17:01	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 17:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 17:01	1
2-Butanone	ND		10		ug/L			05/02/22 17:01	1
2-Hexanone	ND		3.0		ug/L			05/02/22 17:01	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 17:01	1
Acrylonitrile	ND		10		ug/L			05/02/22 17:01	1
Benzene	ND		0.20		ug/L			05/02/22 17:01	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 17:01	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 17:01	1
Bromoform	ND		0.50		ug/L			05/02/22 17:01	1
Bromomethane	ND		0.50		ug/L			05/02/22 17:01	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 17:01	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 17:01	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 17:01	1

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

Lab Sample ID: MB 580-389143/6
Matrix: Water
Analysis Batch: 389143

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.50		ug/L			05/02/22 17:01	1
Chloroform	ND		0.20		ug/L			05/02/22 17:01	1
Chloromethane	ND		0.50		ug/L			05/02/22 17:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 17:01	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 17:01	1
Dibromomethane	ND		0.20		ug/L			05/02/22 17:01	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 17:01	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 17:01	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 17:01	1
o-Xylene	ND		0.50		ug/L			05/02/22 17:01	1
Styrene	ND		1.0		ug/L			05/02/22 17:01	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 17:01	1
Toluene	ND		0.20		ug/L			05/02/22 17:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 17:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 17:01	1
Trichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 17:01	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 17:01	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 17:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*05/02/22 17:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/02/22 17:01*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/02/22 17:01*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/02/22 17:01*	*1*

Lab Sample ID: LCS 580-389143/3
Matrix: Water
Analysis Batch: 389143

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	5.22		ug/L		104	69 - 127
1,1,1-Trichloroethane	5.00	5.27		ug/L		105	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.16		ug/L		103	67 - 136
1,1,2-Trichloroethane	5.00	5.33		ug/L		107	73 - 127
1,1-Dichloroethane	5.00	4.53		ug/L		91	74 - 120
1,1-Dichloroethene	5.00	4.15		ug/L		83	60 - 129
1,2,3-Trichloropropane	5.00	5.25		ug/L		105	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	6.17		ug/L		123	55 - 135
1,2-Dibromoethane	5.00	5.65		ug/L		113	61 - 143
1,2-Dichlorobenzene	5.00	5.07		ug/L		101	72 - 129
1,2-Dichloroethane	5.00	4.49		ug/L		90	74 - 127
1,2-Dichloropropane	5.00	5.08		ug/L		102	69 - 130
1,4-Dichlorobenzene	5.00	5.05		ug/L		101	71 - 129
2-Butanone	25.0	26.0		ug/L		104	37 - 150
2-Hexanone	25.0	29.0		ug/L		116	56 - 150

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

Lab Sample ID: LCS 580-389143/3
Matrix: Water
Analysis Batch: 389143

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Methyl-2-pentanone	25.0	26.9		ug/L		108	63 - 137
Acrylonitrile	50.0	51.6		ug/L		103	50 - 145
Benzene	5.00	4.67		ug/L		93	80 - 120
Bromochloromethane	5.00	4.31		ug/L		86	79 - 121
Bromodichloromethane	5.00	5.19		ug/L		104	74 - 131
Bromoform	5.00	5.49		ug/L		110	48 - 127
Bromomethane	5.00	4.40		ug/L		88	51 - 148
Carbon disulfide	5.00	5.81		ug/L		116	54 - 142
Carbon tetrachloride	5.00	5.14		ug/L		103	66 - 130
Chlorobenzene	5.00	4.81		ug/L		96	74 - 123
Chloroethane	5.00	4.02		ug/L		80	54 - 140
Chloroform	5.00	4.49		ug/L		90	75 - 120
Chloromethane	5.00	4.22		ug/L		84	32 - 150
cis-1,2-Dichloroethene	5.00	4.48		ug/L		90	72 - 120
cis-1,3-Dichloropropene	5.00	5.50		ug/L		110	77 - 131
Dibromochloromethane	5.00	5.27		ug/L		105	62 - 141
Dibromomethane	5.00	4.97		ug/L		99	65 - 141
Ethylbenzene	5.00	5.09		ug/L		102	80 - 124
m,p-Xylene	5.00	4.55		ug/L		91	75 - 124
Methylene Chloride	5.00	4.75	J	ug/L		95	40 - 142
o-Xylene	5.00	5.14		ug/L		103	71 - 124
Styrene	5.00	5.15		ug/L		103	74 - 127
Tetrachloroethene	5.00	5.21		ug/L		104	75 - 124
Toluene	5.00	4.69		ug/L		94	80 - 126
trans-1,2-Dichloroethene	5.00	4.67		ug/L		93	69 - 121
trans-1,3-Dichloropropene	5.00	5.95		ug/L		119	71 - 138
trans-1,4-Dichloro-2-butene	5.00	5.61		ug/L		112	20 - 150
Trichloroethene	5.00	4.89		ug/L		98	72 - 120
Trichlorofluoromethane	5.00	4.51		ug/L		90	60 - 132
Vinyl acetate	12.5	11.8		ug/L		95	38 - 150
Vinyl chloride	5.00	4.32		ug/L		86	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: LCSD 580-389143/4
Matrix: Water
Analysis Batch: 389143

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	4.95		ug/L		99	69 - 127	5	22
1,1,1-Trichloroethane	5.00	5.01		ug/L		100	70 - 121	5	24
1,1,2,2-Tetrachloroethane	5.00	4.90		ug/L		98	67 - 136	5	24
1,1,2-Trichloroethane	5.00	5.26		ug/L		105	73 - 127	1	22
1,1-Dichloroethane	5.00	4.54		ug/L		91	74 - 120	0	26

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

Lab Sample ID: LCSD 580-389143/4
Matrix: Water
Analysis Batch: 389143

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-Dichloroethene	5.00	4.31		ug/L		86	60 - 129	4	29
1,2,3-Trichloropropane	5.00	5.42		ug/L		108	67 - 135	3	25
1,2-Dibromo-3-Chloropropane	5.00	5.46		ug/L		109	55 - 135	12	29
1,2-Dibromoethane	5.00	5.54		ug/L		111	61 - 143	2	22
1,2-Dichlorobenzene	5.00	4.81		ug/L		96	72 - 129	5	22
1,2-Dichloroethane	5.00	4.59		ug/L		92	74 - 127	2	21
1,2-Dichloropropane	5.00	4.90		ug/L		98	69 - 130	4	22
1,4-Dichlorobenzene	5.00	4.89		ug/L		98	71 - 129	3	22
2-Butanone	25.0	24.6		ug/L		98	37 - 150	6	35
2-Hexanone	25.0	28.2		ug/L		113	56 - 150	3	29
4-Methyl-2-pentanone	25.0	26.2		ug/L		105	63 - 137	3	26
Acrylonitrile	50.0	50.4		ug/L		101	50 - 145	2	33
Benzene	5.00	4.59		ug/L		92	80 - 120	2	22
Bromochloromethane	5.00	4.25		ug/L		85	79 - 121	2	20
Bromodichloromethane	5.00	5.11		ug/L		102	74 - 131	2	21
Bromoform	5.00	5.04		ug/L		101	48 - 127	8	23
Bromomethane	5.00	4.17		ug/L		83	51 - 148	5	35
Carbon disulfide	5.00	4.76		ug/L		95	54 - 142	20	34
Carbon tetrachloride	5.00	4.75		ug/L		95	66 - 130	8	24
Chlorobenzene	5.00	4.50		ug/L		90	74 - 123	7	21
Chloroethane	5.00	4.12		ug/L		82	54 - 140	2	33
Chloroform	5.00	4.50		ug/L		90	75 - 120	0	21
Chloromethane	5.00	4.20		ug/L		84	32 - 150	0	33
cis-1,2-Dichloroethene	5.00	4.48		ug/L		90	72 - 120	0	22
cis-1,3-Dichloropropene	5.00	5.43		ug/L		109	77 - 131	1	24
Dibromochloromethane	5.00	5.24		ug/L		105	62 - 141	1	22
Dibromomethane	5.00	4.61		ug/L		92	65 - 141	8	22
Ethylbenzene	5.00	4.83		ug/L		97	80 - 124	5	22
m,p-Xylene	5.00	4.32		ug/L		86	75 - 124	5	22
Methylene Chloride	5.00	4.56	J	ug/L		91	40 - 142	4	25
o-Xylene	5.00	4.86		ug/L		97	71 - 124	6	23
Styrene	5.00	4.96		ug/L		99	74 - 127	4	22
Tetrachloroethene	5.00	4.98		ug/L		100	75 - 124	5	20
Toluene	5.00	4.51		ug/L		90	80 - 126	4	20
trans-1,2-Dichloroethene	5.00	4.32		ug/L		86	69 - 121	8	27
trans-1,3-Dichloropropene	5.00	5.72		ug/L		114	71 - 138	4	26
trans-1,4-Dichloro-2-butene	5.00	5.20		ug/L		104	20 - 150	7	35
Trichloroethene	5.00	4.71		ug/L		94	72 - 120	4	22
Trichlorofluoromethane	5.00	4.59		ug/L		92	60 - 132	2	32
Vinyl acetate	12.5	12.4		ug/L		99	38 - 150	4	35
Vinyl chloride	5.00	4.24		ug/L		85	41 - 150	2	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

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

Lab Sample ID: MB 580-389531/6
Matrix: Water
Analysis Batch: 389531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 18:46	1
Methyl iodide	ND		0.50		ug/L			05/04/22 18:46	1
Vinyl chloride	ND		0.020		ug/L			05/04/22 18:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/04/22 18:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/04/22 18:46*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/04/22 18:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/04/22 18:46*	*1*

Lab Sample ID: LCS 580-389531/3
Matrix: Water
Analysis Batch: 389531

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	25.2		ug/L		101	49 - 150		
Methyl iodide			5.00	5.44		ug/L		109	60 - 128		
Vinyl chloride			5.00	5.79		ug/L		116	41 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-389531/4
Matrix: Water
Analysis Batch: 389531

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	25.1		ug/L		100	49 - 150	0	24
Methyl iodide			5.00	5.73		ug/L		115	60 - 128	5	39
Vinyl chloride			5.00	6.02		ug/L		120	41 - 150	4	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 580-389593/6
Matrix: Water
Analysis Batch: 389593

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			05/05/22 14:16	1

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

Lab Sample ID: MB 580-389593/6
Matrix: Water
Analysis Batch: 389593

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		05/05/22 14:16	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/05/22 14:16	1
Dibromofluoromethane (Surr)	97		80 - 120		05/05/22 14:16	1
Toluene-d8 (Surr)	97		80 - 120		05/05/22 14:16	1

Lab Sample ID: LCS 580-389593/3
Matrix: Water
Analysis Batch: 389593

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	5.49		ug/L		110	60 - 132		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 580-389593/4
Matrix: Water
Analysis Batch: 389593

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	5.57		ug/L		111	60 - 132	1	32

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	111		80 - 120
Toluene-d8 (Surr)	97		80 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-389006/26-A
Matrix: Water
Analysis Batch: 389280

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		04/29/22 17:25	05/02/22 19:01	1
Iron	ND		0.30		mg/L		04/29/22 17:25	05/02/22 19:01	1
Magnesium	ND		0.50		mg/L		04/29/22 17:25	05/02/22 19:01	1
Manganese	ND		0.020		mg/L		04/29/22 17:25	05/02/22 19:01	1
Potassium	ND		3.3		mg/L		04/29/22 17:25	05/02/22 19:01	1
Sodium	ND		0.50		mg/L		04/29/22 17:25	05/02/22 19:01	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-389006/27-A
Matrix: Water
Analysis Batch: 389280

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	20.0		mg/L		100	80 - 120
Iron	20.0	19.8		mg/L		99	80 - 120
Magnesium	20.0	19.5		mg/L		97	80 - 120
Manganese	1.00	0.985		mg/L		98	80 - 120
Potassium	20.0	19.7		mg/L		99	80 - 120
Sodium	20.0	19.3		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-389006/28-A
Matrix: Water
Analysis Batch: 389280

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 389006

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	3	20
Iron	20.0	19.2		mg/L		96	80 - 120	3	20
Magnesium	20.0	19.0		mg/L		95	80 - 120	3	20
Manganese	1.00	0.964		mg/L		96	80 - 120	2	20
Potassium	20.0	19.6		mg/L		98	80 - 120	1	20
Sodium	20.0	18.6		mg/L		93	80 - 120	3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-388903/21-A
Matrix: Water
Analysis Batch: 389083

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:06	1
Arsenic	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 16:06	1
Barium	ND		0.0012		mg/L		04/28/22 19:27	04/29/22 16:06	1
Beryllium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:06	1
Cadmium	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:06	1
Chromium	ND		0.00080		mg/L		04/28/22 19:27	04/29/22 16:06	1
Cobalt	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:06	1
Copper	ND		0.0020		mg/L		04/28/22 19:27	04/29/22 16:06	1
Lead	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:06	1
Nickel	ND		0.0030		mg/L		04/28/22 19:27	04/29/22 16:06	1
Selenium	ND		0.0080		mg/L		04/28/22 19:27	04/29/22 16:06	1
Silver	ND		0.00040		mg/L		04/28/22 19:27	04/29/22 16:06	1
Thallium	ND		0.0010		mg/L		04/28/22 19:27	04/29/22 16:06	1
Vanadium	ND		0.0040		mg/L		04/28/22 19:27	04/29/22 16:06	1
Zinc	ND		0.0070		mg/L		04/28/22 19:27	04/29/22 16:06	1

Lab Sample ID: LCS 580-388903/22-A
Matrix: Water
Analysis Batch: 389083

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.01		mg/L		101	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-388903/22-A
Matrix: Water
Analysis Batch: 389083

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	1.00	0.958		mg/L		96	80 - 120
Cadmium	1.00	1.00		mg/L		100	80 - 120
Chromium	1.00	1.02		mg/L		102	80 - 120
Cobalt	1.00	0.985		mg/L		98	80 - 120
Copper	1.00	1.04		mg/L		104	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120
Nickel	1.00	1.03		mg/L		103	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Silver	1.00	0.996		mg/L		100	80 - 120
Thallium	1.00	1.00		mg/L		100	80 - 120
Vanadium	1.00	1.03		mg/L		103	80 - 120
Zinc	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-388903/23-A
Matrix: Water
Analysis Batch: 389083

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	1.02		mg/L		102	80 - 120	1	20
Arsenic	1.00	0.988		mg/L		99	80 - 120	0	20
Barium	1.00	1.03		mg/L		103	80 - 120	1	20
Beryllium	1.00	0.950		mg/L		95	80 - 120	1	20
Cadmium	1.00	1.01		mg/L		101	80 - 120	0	20
Chromium	1.00	1.01		mg/L		101	80 - 120	1	20
Cobalt	1.00	0.979		mg/L		98	80 - 120	1	20
Copper	1.00	1.03		mg/L		103	80 - 120	1	20
Lead	1.00	1.01		mg/L		101	80 - 120	0	20
Nickel	1.00	1.02		mg/L		102	80 - 120	1	20
Selenium	1.00	0.989		mg/L		99	80 - 120	4	20
Silver	1.00	1.01		mg/L		101	80 - 120	1	20
Thallium	1.00	1.01		mg/L		101	80 - 120	1	20
Vanadium	1.00	1.03		mg/L		103	80 - 120	0	20
Zinc	1.00	1.01		mg/L		101	80 - 120	1	20

Lab Sample ID: 580-112902-1 MS
Matrix: Water
Analysis Batch: 389083

Client Sample ID: 0422-27
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		1.00	1.05		mg/L		105	80 - 120
Arsenic	0.0067		1.00	1.04		mg/L		104	80 - 120
Barium	0.048		1.00	1.14		mg/L		109	80 - 120
Beryllium	ND		1.00	1.04		mg/L		104	80 - 120
Cadmium	ND		1.00	1.06		mg/L		106	80 - 120
Chromium	ND		1.00	1.08		mg/L		108	80 - 120
Cobalt	ND		1.00	1.03		mg/L		103	80 - 120
Copper	ND		1.00	1.07		mg/L		107	80 - 120
Lead	ND		1.00	1.06		mg/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-112902-1 MS
Matrix: Water
Analysis Batch: 389083

Client Sample ID: 0422-27
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	ND		1.00	1.09		mg/L		109	80 - 120
Selenium	ND		1.00	1.05		mg/L		105	80 - 120
Silver	ND		1.00	1.09		mg/L		109	80 - 120
Thallium	ND		1.00	1.07		mg/L		107	80 - 120
Vanadium	ND		1.00	1.10		mg/L		110	80 - 120
Zinc	ND		1.00	1.09		mg/L		109	80 - 120

Lab Sample ID: 580-112902-1 MSD
Matrix: Water
Analysis Batch: 389083

Client Sample ID: 0422-27
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1.00	1.09		mg/L		109	80 - 120	4	20
Arsenic	0.0067		1.00	1.09		mg/L		108	80 - 120	4	20
Barium	0.048		1.00	1.17		mg/L		112	80 - 120	2	20
Beryllium	ND		1.00	1.06		mg/L		106	80 - 120	2	20
Cadmium	ND		1.00	1.11		mg/L		111	80 - 120	5	20
Chromium	ND		1.00	1.13		mg/L		113	80 - 120	4	20
Cobalt	ND		1.00	1.08		mg/L		108	80 - 120	5	20
Copper	ND		1.00	1.12		mg/L		112	80 - 120	5	20
Lead	ND		1.00	1.12		mg/L		112	80 - 120	5	20
Nickel	ND		1.00	1.11		mg/L		111	80 - 120	2	20
Selenium	ND		1.00	1.09		mg/L		109	80 - 120	4	20
Silver	ND		1.00	1.14		mg/L		114	80 - 120	5	20
Thallium	ND		1.00	1.11		mg/L		111	80 - 120	4	20
Vanadium	ND		1.00	1.15		mg/L		115	80 - 120	4	20
Zinc	ND		1.00	1.14		mg/L		114	80 - 120	4	20

Lab Sample ID: 580-112902-1 DU
Matrix: Water
Analysis Batch: 389083

Client Sample ID: 0422-27
Prep Type: Total Recoverable
Prep Batch: 388903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0067		0.00674		mg/L		1	20
Barium	0.048		0.0482		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	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: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-389202/26-A
Matrix: Water
Analysis Batch: 389356

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/02/22 18:01	05/03/22 14:28	1
Arsenic	ND		0.0010		mg/L		05/02/22 18:01	05/03/22 14:28	1
Barium	ND		0.0012		mg/L		05/02/22 18:01	05/03/22 14:28	1
Beryllium	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 14:28	1
Cadmium	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 14:28	1
Chromium	ND		0.00080		mg/L		05/02/22 18:01	05/03/22 14:28	1
Cobalt	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 14:28	1
Copper	ND		0.0020		mg/L		05/02/22 18:01	05/03/22 14:28	1
Lead	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 14:28	1
Nickel	ND		0.0030		mg/L		05/02/22 18:01	05/03/22 14:28	1
Selenium	ND		0.0080		mg/L		05/02/22 18:01	05/03/22 14:28	1
Silver	ND		0.00040		mg/L		05/02/22 18:01	05/03/22 14:28	1
Thallium	ND		0.0010		mg/L		05/02/22 18:01	05/03/22 14:28	1
Vanadium	ND		0.0040		mg/L		05/02/22 18:01	05/03/22 14:28	1
Zinc	ND		0.0070		mg/L		05/02/22 18:01	05/03/22 14:28	1

Lab Sample ID: LCS 580-389202/27-A
Matrix: Water
Analysis Batch: 389356

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.01		mg/L		101	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	1.00	0.936		mg/L		94	80 - 120
Cadmium	1.00	1.01		mg/L		101	80 - 120
Chromium	1.00	1.04		mg/L		104	80 - 120
Cobalt	1.00	1.03		mg/L		103	80 - 120
Copper	1.00	1.06		mg/L		106	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Nickel	1.00	1.07		mg/L		107	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Silver	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	0.969		mg/L		97	80 - 120
Vanadium	1.00	1.04		mg/L		104	80 - 120
Zinc	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: LCSD 580-389202/28-A
Matrix: Water
Analysis Batch: 389356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 389202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	1.02		mg/L		102	80 - 120	0	20
Arsenic	1.00	1.01		mg/L		101	80 - 120	0	20
Barium	1.00	1.02		mg/L		102	80 - 120	0	20
Beryllium	1.00	0.950		mg/L		95	80 - 120	1	20
Cadmium	1.00	1.01		mg/L		101	80 - 120	0	20
Chromium	1.00	1.03		mg/L		103	80 - 120	0	20
Cobalt	1.00	1.03		mg/L		103	80 - 120	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-389202/28-A
Matrix: Water
Analysis Batch: 389356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 389202

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper			1.00	1.05		mg/L		105	80 - 120	1	20
Lead			1.00	1.06		mg/L		106	80 - 120	0	20
Nickel			1.00	1.04		mg/L		104	80 - 120	3	20
Selenium			1.00	1.00		mg/L		100	80 - 120	2	20
Silver			1.00	1.01		mg/L		101	80 - 120	2	20
Thallium			1.00	0.958		mg/L		96	80 - 120	1	20
Vanadium			1.00	1.03		mg/L		103	80 - 120	1	20
Zinc			1.00	1.05		mg/L		105	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-388481/3
Matrix: Water
Analysis Batch: 388481

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			04/21/22 20:40	1
Chloride	ND		1.5		mg/L			04/21/22 20:40	1
Sulfate	ND		1.5		mg/L			04/21/22 20:40	1

Lab Sample ID: MB 580-388481/38
Matrix: Water
Analysis Batch: 388481

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			04/25/22 20:41	1
Chloride	ND		1.5		mg/L			04/25/22 20:41	1
Sulfate	ND		1.5		mg/L			04/25/22 20:41	1

Lab Sample ID: LCS 580-388481/39
Matrix: Water
Analysis Batch: 388481

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	50.9		mg/L		102	90 - 110		
Sulfate			50.0	51.1		mg/L		102	90 - 110		

Lab Sample ID: LCS 580-388481/4
Matrix: Water
Analysis Batch: 388481

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	4.97		mg/L		99	90 - 110		
Chloride			50.0	50.8		mg/L		102	90 - 110		
Sulfate			50.0	50.8		mg/L		102	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-388481/40
Matrix: Water
Analysis Batch: 388481

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	4.83		mg/L		97	90 - 110	0	15
Chloride			50.0	50.7		mg/L		101	90 - 110	0	15
Sulfate			50.0	51.1		mg/L		102	90 - 110	0	15

Lab Sample ID: LCSD 580-388481/5
Matrix: Water
Analysis Batch: 388481

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	5.00		mg/L		100	90 - 110	1	15
Chloride			50.0	50.8		mg/L		102	90 - 110	0	15
Sulfate			50.0	50.8		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-112902-12 MS
Matrix: Water
Analysis Batch: 388481

Client Sample ID: 0422-17
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	4.04	F1	mg/L		80	90 - 110
Chloride	71	F1	50.0	112	F1	mg/L		82	90 - 110
Sulfate	82	F1	50.0	125	F1	mg/L		85	90 - 110

Lab Sample ID: 580-112902-12 MSD
Matrix: Water
Analysis Batch: 388481

Client Sample ID: 0422-17
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	4.06	F1	mg/L		80	90 - 110	0	15
Chloride	71	F1	50.0	112	F1	mg/L		82	90 - 110	0	15
Sulfate	82	F1	50.0	125	F1	mg/L		85	90 - 110	0	15

Lab Sample ID: MB 580-388670/3
Matrix: Water
Analysis Batch: 388670

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			04/21/22 20:40	1

Lab Sample ID: LCS 580-388670/4
Matrix: Water
Analysis Batch: 388670

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	9.28		mg/L		93	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-388670/5
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 388670

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N			10.0	9.27		mg/L		93	90 - 110	0	15

Lab Sample ID: 580-112902-12 MS
Client Sample ID: 0422-17
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 388670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	3.6	F1	10.0	11.6	F1	mg/L		80	90 - 110

Lab Sample ID: 580-112902-12 MSD
Client Sample ID: 0422-17
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 388670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	3.6	F1	10.0	11.5	F1	mg/L		79	90 - 110	1	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-388904/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 389022
Prep Batch: 388904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		04/28/22 19:29	04/29/22 22:25	1

Lab Sample ID: LCS 580-388904/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 389022
Prep Batch: 388904

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: MB 580-389066/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 389067
Prep Batch: 389066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1

Lab Sample ID: LCS 580-389066/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 389067
Prep Batch: 389066

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia			2.00	2.07		mg/L		104	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 580-112902-7 MS — **Client Sample ID: 0422-15**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 389067 — **Prep Batch: 389066**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	ND		2.00	1.91		mg/L		96	90 - 110

Lab Sample ID: 580-112902-7 MSD — **Client Sample ID: 0422-15**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 389067 — **Prep Batch: 389066**

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		98	90 - 110	2	20

Lab Sample ID: 580-112902-7 DU — **Client Sample ID: 0422-15**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 389067 — **Prep Batch: 389066**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-388673/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-388587/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388587

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			04/27/22 12:36	1

Lab Sample ID: LCS 580-388587/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	916		mg/L		92	80 - 120

Lab Sample ID: 580-112902-1 DU — **Client Sample ID: 0422-27**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388587

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	560		504		mg/L		10	20

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 580-112902-2 DU — **Client Sample ID: 0422-26**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388587

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	250		241		mg/L		5	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-388682/3-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388693 — **Prep Batch: 388682**

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		04/27/22 17:06	04/27/22 17:34	1

Lab Sample ID: LCS 580-388682/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388693 — **Prep Batch: 388682**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	75.0	75.1		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-388682/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388693 — **Prep Batch: 388682**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	75.0	74.7		mg/L		100	80 - 120	0	20

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-231717/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 231717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			05/04/22 00:58	1

Lab Sample ID: LCS 570-231717/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 231717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon, Total Organic	5.03	5.66		mg/L		113	85 - 115

Lab Sample ID: LCSD 570-231717/30 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 231717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	5.03	5.19		mg/L		103	85 - 115	9	20

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 580-112902-1 MS
Client Sample ID: 0422-27
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic	1.2		5.03	5.95		mg/L		94	31 - 145		

Lab Sample ID: 580-112902-1 MSD
Client Sample ID: 0422-27
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 231717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	1.2		5.03	6.00		mg/L		95	31 - 145	1	20

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-27
Lab Sample ID: 580-112902-1
Date Collected: 04/20/22 10:40
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 21:03	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 15:08	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 19:46	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 16:17	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 21:15	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 21:15	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 02:54	UAPD	ECL 4

Client Sample ID: 0422-26
Lab Sample ID: 580-112902-2
Date Collected: 04/20/22 11:40
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 21:28	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 15:32	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 19:49	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:00	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 21:26	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 21:26	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 03:18	UAPD	ECL 4

Client Sample ID: 0422-09
Lab Sample ID: 580-112902-3
Date Collected: 04/20/22 13:01
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 21:52	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-09
Lab Sample ID: 580-112902-3
Date Collected: 04/20/22 13:01
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 15:57	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 19:53	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:04	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 21:38	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 21:38	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 03:41	UAPD	ECL 4

Client Sample ID: 0422-10
Lab Sample ID: 580-112902-4
Date Collected: 04/20/22 14:00
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 22:17	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 16:42	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 19:56	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:08	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 21:50	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 21:50	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 04:04	UAPD	ECL 4

Client Sample ID: 0422-11
Lab Sample ID: 580-112902-5
Date Collected: 04/20/22 15:36
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 22:42	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 17:06	JBT	FGS SEA

Client Sample ID: 0422-11
Lab Sample ID: 580-112902-5

Date Collected: 04/20/22 15:36
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 19:59	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:11	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 22:02	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 22:02	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 04:26	UAPD	ECL 4

Client Sample ID: 0422-24
Lab Sample ID: 580-112902-6

Date Collected: 04/20/22 17:45
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	388670	04/21/22 23:12	JHR	FGS SEA

Client Sample ID: 0422-15
Lab Sample ID: 580-112902-7

Date Collected: 04/20/22 18:15
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 23:06	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 17:31	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:03	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:15	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 23:24	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 23:24	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 04:49	UAPD	ECL 4

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-19
Lab Sample ID: 580-112902-8
Date Collected: 04/20/22 10:25
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 23:30	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 17:55	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:06	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:19	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 23:35	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 23:35	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 05:11	UAPD	ECL 4

Client Sample ID: 0422-29
Lab Sample ID: 580-112902-9
Date Collected: 04/20/22 10:40
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	388411	04/24/22 23:55	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	388832	04/28/22 18:20	JBT	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:17	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:23	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 23:47	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 23:47	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 05:33	UAPD	ECL 4

Client Sample ID: 0422-20
Lab Sample ID: 580-112902-10
Date Collected: 04/20/22 11:30
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 19:34	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-20
Lab Sample ID: 580-112902-10
Date Collected: 04/20/22 11:30
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389143	05/02/22 18:15	JSM	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:21	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:27	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/21/22 23:59	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/21/22 23:59	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 05:56	UAPD	ECL 4

Client Sample ID: 0422-18
Lab Sample ID: 580-112902-11
Date Collected: 04/20/22 12:30
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 19:59	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 18:39	JSM	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:24	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:31	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/22/22 00:22	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/22/22 00:22	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 06:18	UAPD	ECL 4

Client Sample ID: 0422-17
Lab Sample ID: 580-112902-12
Date Collected: 04/20/22 13:20
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 20:23	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 19:03	JSM	FGS SEA

Client Sample ID: 0422-17
Lab Sample ID: 580-112902-12

Date Collected: 04/20/22 13:20
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:27	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 17:34	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/22/22 00:46	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/22/22 00:46	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 07:36	UAPD	ECL 4

Client Sample ID: 0422-28
Lab Sample ID: 580-112902-13

Date Collected: 04/20/22 13:40
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 20:47	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 19:28	JSM	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:31	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 16:10	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/22/22 01:56	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/22/22 01:56	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			388904	04/28/22 19:29	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389022	04/29/22 22:25	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 08:09	UAPD	ECL 4

Client Sample ID: 0422-16
Lab Sample ID: 580-112902-14

Date Collected: 04/20/22 15:20
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 21:11	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 19:53	JSM	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-16
Lab Sample ID: 580-112902-14
Date Collected: 04/20/22 15:20
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:34	TMH	FGS SEA
Total Recoverable	Prep	3005A			388903	04/28/22 19:27	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389083	04/29/22 16:14	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/22/22 02:19	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/22/22 02:19	JHR	FGS SEA
Total/NA	Analysis	300.0		5	388481	04/22/22 02:31	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			388904	04/28/22 19:29	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389022	04/29/22 22:25	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 08:29	UAPD	ECL 4

Client Sample ID: 0422-04
Lab Sample ID: 580-112902-15
Date Collected: 04/20/22 16:30
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 21:36	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 20:17	JSM	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:38	TMH	FGS SEA
Total Recoverable	Prep	3005A			389202	05/02/22 18:01	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389356	05/03/22 15:18	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/22/22 02:43	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/22/22 02:43	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			388904	04/28/22 19:29	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389022	04/29/22 22:25	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 08:51	UAPD	ECL 4

Client Sample ID: 0422-05
Lab Sample ID: 580-112902-16
Date Collected: 04/20/22 18:10
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 22:00	JBT	FGS SEA
Total/NA	Analysis	8260D	DL	5	389593	05/05/22 15:00	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-05
Lab Sample ID: 580-112902-16
Date Collected: 04/20/22 18:10
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389143	05/02/22 20:42	JSM	FGS SEA
Dissolved	Prep	3005A			389006	04/29/22 17:25	ABP	FGS SEA
Dissolved	Analysis	6010D		1	389280	05/02/22 20:41	TMH	FGS SEA
Total Recoverable	Prep	3005A			389202	05/02/22 18:01	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389356	05/03/22 15:22	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388481	04/22/22 02:54	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388670	04/22/22 02:54	JHR	FGS SEA
Total/NA	Analysis	300.0		5	388481	04/25/22 21:28	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			388904	04/28/22 19:29	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389022	04/29/22 22:25	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388673	04/27/22 16:53	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388587	04/27/22 12:36	S1B	FGS SEA
Total/NA	Prep	SM 5220			388682	04/27/22 17:06	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	388693	04/27/22 17:34	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231717	05/04/22 09:15	UAPD	ECL 4

Client Sample ID: Trip Blank
Lab Sample ID: 580-112902-17
Date Collected: 04/20/22 00:00
Matrix: Water
Date Received: 04/21/22 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 22:24	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 17:50	JSM	FGS SEA

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

FGS SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-112902-1
Project/Site: Coupeville SW Facility GW Q2 2022

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
SM 2320B		Water	Alkalinity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3
SM 2540C		Water	Total Dissolved Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	12-01-22
California	State	2944	09-30-22
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-31-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-112902-1	0422-27	Water	04/20/22 10:40	04/21/22 15:00
580-112902-2	0422-26	Water	04/20/22 11:40	04/21/22 15:00
580-112902-3	0422-09	Water	04/20/22 13:01	04/21/22 15:00
580-112902-4	0422-10	Water	04/20/22 14:00	04/21/22 15:00
580-112902-5	0422-11	Water	04/20/22 15:36	04/21/22 15:00
580-112902-6	0422-24	Water	04/20/22 17:45	04/21/22 15:00
580-112902-7	0422-15	Water	04/20/22 18:15	04/21/22 15:00
580-112902-8	0422-19	Water	04/20/22 10:25	04/21/22 15:00
580-112902-9	0422-29	Water	04/20/22 10:40	04/21/22 15:00
580-112902-10	0422-20	Water	04/20/22 11:30	04/21/22 15:00
580-112902-11	0422-18	Water	04/20/22 12:30	04/21/22 15:00
580-112902-12	0422-17	Water	04/20/22 13:20	04/21/22 15:00
580-112902-13	0422-28	Water	04/20/22 13:40	04/21/22 15:00
580-112902-14	0422-16	Water	04/20/22 15:20	04/21/22 15:00
580-112902-15	0422-04	Water	04/20/22 16:30	04/21/22 15:00
580-112902-16	0422-05	Water	04/20/22 18:10	04/21/22 15:00
580-112902-17	Trip Blank	Water	04/20/22 00:00	04/21/22 15:00

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

580-112902 Chain of Custody

Eurofins Environment Testing America

Client Information	Sampler: SC + RM	Lab PM: Lewis, Nathan A	No: -47983-15382.3
Client Contact: Mr. Sam Graber	Phone: 612 940 2980	E-Mail: Nathan.Lewis@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:	Analysis Requested	Job #: 04222010.02
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard		
City: Bellevue	TAT Requested (days):		
State, Zip: WA, 98005-1877	Compliance Project: Δ Yes Δ No		
Phone: 425-766-3362(Tel)	PO #: Purchase Order not required		
Email: SGraber@scsengineers.com	WO #:		
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834		
Site:	SSOW#:		

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)	SM5310D - Total Organic Carbon	5220D - COD	350.1 - Nitrogen, Ammonia	2320B - Alkalinity, Carbonate, Bicarbonate	6020B_LL - 16 Total Metals	6010D - FF Metals (Ca,Fe,Mg,Mn) + K + Na	8260D_LL - Volatiles, custom list, low level	2540C - Solids, Total Dissolved (TDS)	300_48HR - Nitrate/Nitrite	300.0_28D - Chloride, Fluoride, Sulfate				Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	S	S	N	D	D	A	N	N	N					
0422-27	4/20/22	1040	G	W	Y	N	X	X	X	X	X	X	X	X	X	X				10	Use RL of 0.3 mg/L
0422-26		1140																			for Fe **
0422-09		1301																			
0422-10		1400																			
0422-11		1536																			
0422-24		1745			N										X					1	
0422-15		1815			Y		X	X	X	X	X	X	X	X	X	X				10	
0422-19		1025																			
0422-29		1040																			
0422-20		1130																			
0422-18		1230																			

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
	4/21/22 1030	SCS	Sydney Lawhoff	4/21 1500	ETA
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:

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SG + JM	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-47983-15382.3
Client Contact: Mr. Sam Graber	Phone: 612 840 2880	E-Mail: Nathan.Lewis@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: SCS Engineers	PWSID:			Job #: 04222010.02
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days): Standard			
State, Zip: WA, 98005-1877	Compliance Project: Δ Yes Δ No			
Phone: 425-766-3362(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
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)	SM5310D - Total Organic Carbon	5220D - COD	350.1 - Nitrogen, Ammonia	2320B - Alkalinity, Carbonate, Bicarbonate	6020B_LL - 16 Total Metals	6010D - FF Metals (Ca,Fe,Mg,Mn) *	8260D_LL - Volatiles, custom list, low level	2540C - Solids, Total Dissolved (TDS)	300_48HR - Nitrate/Nitrite	300.0_28D - Chloride, Fluoride, Sulfate				Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	S	S	S	N	D	D	A	N	N	N					
0422-17	4/20/22	1320	G	W	Y	N	X	X	X	X	X	X	X	X	X	X				10	Δ use RL if
0422-28		1340																			0.3 mg/L for
0422-16		1520																			from
0422-04		1630																			
0422-05		1810																			
trip blank		-	-		N	N							X							2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained an 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
		4/20/22 1030	SCS	Sydney Lavhoff	4/21 1500	ETA
	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:

Therm. ID: 308 Cor: 5.2° Unc: 5.4°
Cooler Dsc: #1
Packing: Bub FedEx:
Cust. Seal: Yes No UPS:
Blue Ice: Wet, Dry, None Lab Cour:
Other:

Therm. ID: 308 Cor: 4.2° Unc: 4.4°
Cooler Dsc: # 2
Packing: Bub FedEx:
Cust. Seal: Yes No UPS:
Blue Ice: Wet, Dry, None Lab Cour:
Other:

Therm. ID: 308 Cor: 5.2° Unc: 5.4°
Cooler Dsc: # 3
Packing: Bub FedEx:
Cust. Seal: Yes No UPS:
Blue Ice: Wet, Dry, None Lab Cour:
Other:

Therm. ID: 308 Cor: 4.7° Unc: 4.9°
Cooler Dsc: # 4
Packing: Bub FedEx:
Cust. Seal: Yes No UPS:
Blue Ice: Wet, Dry, None Lab Cour:
Other:

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424
Phone 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dutton, Tracy L	Carrier Tracking No(s):	COC No: 580-102904.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Tracy Dutton@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-112902-1
Address: 2841 Dow Avenue, Suite 100	Due Date Requested: 5/4/2022			
City: Tustin	TAT Requested (days)			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
Site:	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 - 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note.
			Preservation Code:						
0422-27	4/20/22	10 40 Pacific		Water			X	1	
0422-26	4/20/22	11 40 Pacific		Water			X	1	
0422-09	4/20/22	13.01 Pacific		Water			X	1	
0422-10	4/20/22	14.00 Pacific		Water			X	1	
0422-11	4/20/22	15 36 Pacific		Water			X	1	
0422-15	4/20/22	18 15 Pacific		Water			X	1	
0422-19	4/20/22	10.25 Pacific		Water			X	1	
0422-29	4/20/22	10 40 Pacific		Water			X	1	
0422-20	4/20/22	11 30 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
Tom Blankenship	4/25/22		Olga Cinelas	4/26/22 1010	EC
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.
		1.0/2.7 IR-92

Ver: 06/08/2021

5/6/2022

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424
Phone 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM. Dutton, Tracy L	Carrier Tracking No(s):	COC No: 580-102904.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Tracy Dutton@et.eurofinsus.com	State of Origin. Washington	Page: Page 2 of 2
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-112902-1
Address: 2841 Dow Avenue, Suite 100	Due Date Requested. 5/4/2022			
City: Tustin	TAT Requested (days)			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
Site:	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 - 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0422-18	4/20/22	12 30 Pacific		Water			X	1	
0422-17	4/20/22	13 20 Pacific		Water			X	1	
0422-28	4/20/22	13:40 Pacific		Water			X	1	
0422-16	4/20/22	15 20 Pacific		Water			X	1	
0422-04	4/20/22	16 30 Pacific		Water			X	1	
0422-05	4/20/22	18 10 Pacific		Water			X	1	

Note. Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
Tom Blankenship	4/25/22		Olga Oinelas	4/26/22 1010	EC
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. 10/2.7 IR92

Ver: 06/08/2021

5/6/2022

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-112902-1

Login Number: 112902

List Source: Eurofins Seattle

List Number: 1

Creator: Presley, Kim A

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

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-112902-1

Login Number: 112902
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins Calscience
List Creation: 04/26/22 01:14 PM

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

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-112965-1
Client Project/Site: Coupeville SW Facility GW Q2 2022
Revision: 1

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Sam Graber

Kristine D. Allen

Authorized for release by:
5/10/2022 12:14:35 PM
Kristine Allen, Client Service Manager
(253)433-0390
Kristine.Allen@et.eurofinsus.com

Designee for

Tracy Dutton, Client Relations Manager
(253)380-6574
Tracy.Dutton@et.eurofinsus.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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: 580-112965-1

Laboratory: Eurofins Seattle

Narrative

Report was revised to change analyte list for alkalinity and metals.

Job Narrative
580-112965-1

Comments
No additional comments.

Receipt
The samples were received on 4/22/2022 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -0.5º C, 3.2º C, 4.6º C and 4.8º C.

GC/MS VOA
Method 8260D: The CCV for analytical batch 580-389143 recovered outside control limits for the following analyte(s): Bromomethane, Chloroethane, Chloromethane, and Dichlorodifluoromethane have been identified as poor performing analytes when analyzed using this method; therefore, these results have been reported and qualified.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-389143 recovered above the upper control limit for trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 0422-23 (580-112965-1), 0422-12 (580-112965-2), 0422-13 (580-112965-3), 0422-25 (580-112965-4), 0422-06 (580-112965-5), 0422-01 (580-112965-6), 0422-22 (580-112965-7) and (CCVIS 580-389143/2).

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-389143 recovered outside acceptance criteria, low biased, for Vinyl chloride. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-389143 was outside criteria for the following analyte(s): 1,1,2-Trichloroethane. 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 8260D: The continuing calibration verification (CCV) associated with batch 580-389531 recovered outside acceptance criteria, low biased, for Acrylonitrile. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The CCV for analytical batch 580-389593 recovered outside control limits for the following analyte(s): Bromomethane, Chloroethane and Iodomethane have been identified as poor performing analytes when analyzed using this method; therefore, 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
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-388697 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Definitions/Glossary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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 exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-23
Date Collected: 04/21/22 10:02
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 21:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 21:07	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 21:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 21:07	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 21:07	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 21:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 21:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 21:07	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 21:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 21:07	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 21:07	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 21:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 21:07	1
2-Butanone	ND		10		ug/L			05/02/22 21:07	1
2-Hexanone	ND		3.0		ug/L			05/02/22 21:07	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 21:07	1
Acrylonitrile	ND		10		ug/L			05/02/22 21:07	1
Benzene	ND		0.20		ug/L			05/02/22 21:07	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 21:07	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 21:07	1
Bromoform	ND		0.50		ug/L			05/02/22 21:07	1
Bromomethane	ND		0.50		ug/L			05/02/22 21:07	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 21:07	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 21:07	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 21:07	1
Chloroethane	ND		0.50		ug/L			05/02/22 21:07	1
Chloroform	ND		0.20		ug/L			05/02/22 21:07	1
Chloromethane	ND		0.50		ug/L			05/02/22 21:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 21:07	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 21:07	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 21:07	1
Dibromomethane	ND		0.20		ug/L			05/02/22 21:07	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 21:07	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 21:07	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 21:07	1
o-Xylene	ND		0.50		ug/L			05/02/22 21:07	1
Styrene	ND		1.0		ug/L			05/02/22 21:07	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 21:07	1
Toluene	ND		0.20		ug/L			05/02/22 21:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 21:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 21:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 21:07	1
Trichloroethene	ND		0.20		ug/L			05/02/22 21:07	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 21:07	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/02/22 21:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/02/22 21:07*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/02/22 21:07*	*1*

Client Sample ID: 0422-23
Date Collected: 04/21/22 10:02
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/02/22 21:07*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 22:48	1
Methyl iodide	ND		0.50		ug/L			05/04/22 22:48	1
Vinyl chloride	**0.11**		0.020		ug/L			05/04/22 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*05/04/22 22:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/04/22 22:48*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*05/04/22 22:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/04/22 22:48*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		0.50		mg/L		05/03/22 19:48	05/04/22 20:24	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 20:24	1
Magnesium	**120**		0.50		mg/L		05/03/22 19:48	05/04/22 20:24	1
Manganese	**0.050**		0.020		mg/L		05/03/22 19:48	05/04/22 20:24	1
Sodium	**44**		0.50		mg/L		05/03/22 19:48	05/04/22 20:24	1
Potassium	**8.8**		3.3		mg/L		05/03/22 19:48	05/04/22 20:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:01	05/04/22 17:33	1
Arsenic	**0.0046**		0.0010		mg/L		05/03/22 19:01	05/04/22 17:33	1
Barium	**0.047**		0.0012		mg/L		05/03/22 19:01	05/04/22 17:33	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 17:33	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 17:33	1
Chromium	ND		0.00080		mg/L		05/03/22 19:01	05/04/22 17:33	1
Cobalt	**0.0010**		0.00040		mg/L		05/03/22 19:01	05/04/22 17:33	1
Copper	ND		0.0020		mg/L		05/03/22 19:01	05/04/22 17:33	1
Lead	**0.00079**		0.00040		mg/L		05/03/22 19:01	05/04/22 17:33	1
Nickel	**0.0060**		0.0030		mg/L		05/03/22 19:01	05/04/22 17:33	1
Selenium	ND		0.0080		mg/L		05/03/22 19:01	05/04/22 17:33	1
Silver	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 17:33	1
Thallium	ND		0.0010		mg/L		05/03/22 19:01	05/04/22 17:33	1
Vanadium	**0.0058**		0.0040		mg/L		05/03/22 19:01	05/04/22 17:33	1
Zinc	ND		0.0070		mg/L		05/03/22 19:01	05/04/22 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.28**		0.20		mg/L			04/22/22 23:30	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/22/22 23:30	1
Chloride	**76**		1.5		mg/L			04/22/22 23:30	1
Sulfate	**120**		7.5		mg/L			04/25/22 21:40	5
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.8**		0.50		mg/L			05/05/22 03:20	1

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-23
Lab Sample ID: 580-112965-1
Date Collected: 04/21/22 10:02
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**690**		7.0		mg/L			04/28/22 22:31	1
Bicarbonate Alkalinity as CaCO3	**690**		7.0		mg/L			04/28/22 22:31	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/28/22 22:31	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/28/22 22:31	1
Total Dissolved Solids	**1100**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-12
Date Collected: 04/21/22 11:25
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 21:32	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 21:32	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 21:32	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 21:32	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 21:32	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 21:32	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 21:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 21:32	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 21:32	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 21:32	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 21:32	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 21:32	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 21:32	1
2-Butanone	ND		10		ug/L			05/02/22 21:32	1
2-Hexanone	ND		3.0		ug/L			05/02/22 21:32	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 21:32	1
Acrylonitrile	ND		10		ug/L			05/02/22 21:32	1
Benzene	ND		0.20		ug/L			05/02/22 21:32	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 21:32	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 21:32	1
Bromoform	ND		0.50		ug/L			05/02/22 21:32	1
Bromomethane	ND		0.50		ug/L			05/02/22 21:32	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 21:32	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 21:32	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 21:32	1
Chloroethane	ND		0.50		ug/L			05/02/22 21:32	1
Chloroform	ND		0.20		ug/L			05/02/22 21:32	1
Chloromethane	ND		0.50		ug/L			05/02/22 21:32	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 21:32	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 21:32	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 21:32	1
Dibromomethane	ND		0.20		ug/L			05/02/22 21:32	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 21:32	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 21:32	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 21:32	1
o-Xylene	ND		0.50		ug/L			05/02/22 21:32	1
Styrene	ND		1.0		ug/L			05/02/22 21:32	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 21:32	1
Toluene	ND		0.20		ug/L			05/02/22 21:32	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 21:32	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 21:32	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 21:32	1
Trichloroethene	ND		0.20		ug/L			05/02/22 21:32	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 21:32	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 21:32	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*05/02/22 21:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/02/22 21:32*	*1*

Client Sample ID: 0422-12
Date Collected: 04/21/22 11:25
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/02/22 21:32*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/02/22 21:32*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 23:12	1
Methyl iodide	ND		0.50		ug/L			05/04/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/04/22 23:12*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/04/22 23:12*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/04/22 23:12*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/04/22 23:12*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		0.50		mg/L		05/03/22 19:48	05/04/22 20:54	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 20:54	1
Magnesium	**50**		0.50		mg/L		05/03/22 19:48	05/04/22 20:54	1
Manganese	**0.16**		0.020		mg/L		05/03/22 19:48	05/04/22 20:54	1
Sodium	**33**		0.50		mg/L		05/03/22 19:48	05/04/22 20:54	1
Potassium	**6.8**		3.3		mg/L		05/03/22 19:48	05/04/22 20:54	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 19:21	1
Arsenic	**0.0075**		0.0010		mg/L		05/03/22 19:46	05/04/22 19:21	1
Barium	**0.041**		0.0012		mg/L		05/03/22 19:46	05/04/22 19:21	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:21	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:21	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 19:21	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:21	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 19:21	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:21	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 19:21	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 19:21	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:21	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 19:21	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 19:21	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/22/22 23:41	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/22/22 23:41	1
Chloride	**72**		1.5		mg/L			04/22/22 23:41	1
Sulfate	**32**		1.5		mg/L			04/22/22 23:41	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**2.1**		0.50		mg/L			05/05/22 03:44	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-12
Lab Sample ID: 580-112965-2
Date Collected: 04/21/22 11:25
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		7.0		mg/L			04/28/22 22:31	1
Bicarbonate Alkalinity as CaCO3	**360**		7.0		mg/L			04/28/22 22:31	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/28/22 22:31	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/28/22 22:31	1
Total Dissolved Solids	**710**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	**11**		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-13
Date Collected: 04/21/22 12:17
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 21:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 21:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 21:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 21:57	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 21:57	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 21:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 21:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 21:57	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 21:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 21:57	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 21:57	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 21:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 21:57	1
2-Butanone	ND		10		ug/L			05/02/22 21:57	1
2-Hexanone	ND		3.0		ug/L			05/02/22 21:57	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 21:57	1
Acrylonitrile	ND		10		ug/L			05/02/22 21:57	1
Benzene	ND		0.20		ug/L			05/02/22 21:57	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 21:57	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 21:57	1
Bromoform	ND		0.50		ug/L			05/02/22 21:57	1
Bromomethane	ND		0.50		ug/L			05/02/22 21:57	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 21:57	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 21:57	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 21:57	1
Chloroethane	ND		0.50		ug/L			05/02/22 21:57	1
Chloroform	ND		0.20		ug/L			05/02/22 21:57	1
Chloromethane	ND		0.50		ug/L			05/02/22 21:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 21:57	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 21:57	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 21:57	1
Dibromomethane	ND		0.20		ug/L			05/02/22 21:57	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 21:57	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 21:57	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 21:57	1
o-Xylene	ND		0.50		ug/L			05/02/22 21:57	1
Styrene	ND		1.0		ug/L			05/02/22 21:57	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 21:57	1
Toluene	ND		0.20		ug/L			05/02/22 21:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 21:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 21:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 21:57	1
Trichloroethene	ND		0.20		ug/L			05/02/22 21:57	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 21:57	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 21:57	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/02/22 21:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/02/22 21:57*	*1*

Client Sample ID: 0422-13
Date Collected: 04/21/22 12:17
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/02/22 21:57*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/02/22 21:57*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/04/22 23:36	1
Methyl iodide	ND		0.50		ug/L			05/04/22 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*05/04/22 23:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/04/22 23:36*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/04/22 23:36*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/04/22 23:36*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**75**		0.50		mg/L		05/03/22 19:48	05/04/22 20:57	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 20:57	1
Magnesium	**50**		0.50		mg/L		05/03/22 19:48	05/04/22 20:57	1
Manganese	**0.20**		0.020		mg/L		05/03/22 19:48	05/04/22 20:57	1
Sodium	**32**		0.50		mg/L		05/03/22 19:48	05/04/22 20:57	1
Potassium	**6.1**		3.3		mg/L		05/03/22 19:48	05/04/22 20:57	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:03	1
Arsenic	**0.0056**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:03	1
Barium	**0.031**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:03	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:03	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:03	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:03	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:03	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:03	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:03	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:03	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:03	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:03	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:03	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:03	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.26**		0.20		mg/L			04/22/22 23:53	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/22/22 23:53	1
Chloride	**60**		1.5		mg/L			04/22/22 23:53	1
Sulfate	**30**		1.5		mg/L			04/22/22 23:53	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**2.1**		0.50		mg/L			05/05/22 04:06	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-13
Lab Sample ID: 580-112965-3
Date Collected: 04/21/22 12:17
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		7.0		mg/L			04/28/22 22:31	1
Bicarbonate Alkalinity as CaCO3	**360**		7.0		mg/L			04/28/22 22:31	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/28/22 22:31	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/28/22 22:31	1
Total Dissolved Solids	**890**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-25
Date Collected: 04/21/22 13:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 22:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 22:22	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 22:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 22:22	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 22:22	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 22:22	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 22:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 22:22	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 22:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 22:22	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 22:22	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 22:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 22:22	1
2-Butanone	ND		10		ug/L			05/02/22 22:22	1
2-Hexanone	ND		3.0		ug/L			05/02/22 22:22	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 22:22	1
Acrylonitrile	ND		10		ug/L			05/02/22 22:22	1
Benzene	ND		0.20		ug/L			05/02/22 22:22	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 22:22	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 22:22	1
Bromoform	ND		0.50		ug/L			05/02/22 22:22	1
Bromomethane	ND		0.50		ug/L			05/02/22 22:22	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 22:22	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 22:22	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 22:22	1
Chloroethane	ND		0.50		ug/L			05/02/22 22:22	1
Chloroform	ND		0.20		ug/L			05/02/22 22:22	1
Chloromethane	ND		0.50		ug/L			05/02/22 22:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 22:22	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 22:22	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 22:22	1
Dibromomethane	ND		0.20		ug/L			05/02/22 22:22	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 22:22	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 22:22	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 22:22	1
o-Xylene	ND		0.50		ug/L			05/02/22 22:22	1
Styrene	ND		1.0		ug/L			05/02/22 22:22	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 22:22	1
Toluene	ND		0.20		ug/L			05/02/22 22:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 22:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 22:22	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 22:22	1
Trichloroethene	ND		0.20		ug/L			05/02/22 22:22	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 22:22	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 22:22	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*05/02/22 22:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/02/22 22:22*	*1*

Client Sample ID: 0422-25
Date Collected: 04/21/22 13:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*05/02/22 22:22*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/02/22 22:22*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/05/22 00:00	1
Methyl iodide	ND		0.50		ug/L			05/05/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*05/05/22 00:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/05/22 00:00*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/05/22 00:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/05/22 00:00*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**82**		0.50		mg/L		05/03/22 19:48	05/04/22 21:01	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:01	1
Magnesium	**48**		0.50		mg/L		05/03/22 19:48	05/04/22 21:01	1
Manganese	ND		0.020		mg/L		05/03/22 19:48	05/04/22 21:01	1
Sodium	**32**		0.50		mg/L		05/03/22 19:48	05/04/22 21:01	1
Potassium	**5.3**		3.3		mg/L		05/03/22 19:48	05/04/22 21:01	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:07	1
Arsenic	**0.0022**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:07	1
Barium	**0.020**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:07	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:07	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:07	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:07	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:07	1
Copper	**0.046**		0.0020		mg/L		05/03/22 19:46	05/04/22 20:07	1
Lead	**0.00067**		0.00040		mg/L		05/03/22 19:46	05/04/22 20:07	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:07	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:07	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:07	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:07	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:07	1
Zinc	**0.17**		0.0070		mg/L		05/03/22 19:46	05/04/22 20:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 00:05	1
Nitrate Nitrite as N	**1.5**		0.40		mg/L			04/23/22 00:05	1
Chloride	**56**		1.5		mg/L			04/23/22 00:05	1
Sulfate	**47**		1.5		mg/L			04/23/22 00:05	1
Ammonia	ND		0.50		mg/L		04/30/22 20:46	04/30/22 23:30	1
Carbon, Total Organic	**1.8**		0.50		mg/L			05/05/22 05:26	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-25
Lab Sample ID: 580-112965-4
Date Collected: 04/21/22 13:00
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		7.0		mg/L			04/28/22 22:31	1
Bicarbonate Alkalinity as CaCO3	**340**		7.0		mg/L			04/28/22 22:31	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/28/22 22:31	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/28/22 22:31	1
Total Dissolved Solids	**610**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-06
Date Collected: 04/21/22 14:45
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 22:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 22:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 22:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 22:46	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 22:46	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 22:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 22:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 22:46	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 22:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 22:46	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 22:46	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 22:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 22:46	1
2-Butanone	ND		10		ug/L			05/02/22 22:46	1
2-Hexanone	ND		3.0		ug/L			05/02/22 22:46	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 22:46	1
Acrylonitrile	ND		10		ug/L			05/02/22 22:46	1
Benzene	ND		0.20		ug/L			05/02/22 22:46	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 22:46	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 22:46	1
Bromoform	ND		0.50		ug/L			05/02/22 22:46	1
Bromomethane	ND		0.50		ug/L			05/02/22 22:46	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 22:46	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 22:46	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 22:46	1
Chloroethane	ND		0.50		ug/L			05/02/22 22:46	1
Chloroform	ND		0.20		ug/L			05/02/22 22:46	1
Chloromethane	ND		0.50		ug/L			05/02/22 22:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 22:46	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 22:46	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 22:46	1
Dibromomethane	ND		0.20		ug/L			05/02/22 22:46	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 22:46	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 22:46	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 22:46	1
o-Xylene	ND		0.50		ug/L			05/02/22 22:46	1
Styrene	ND		1.0		ug/L			05/02/22 22:46	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 22:46	1
Toluene	ND		0.20		ug/L			05/02/22 22:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 22:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 22:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 22:46	1
Trichloroethene	ND		0.20		ug/L			05/02/22 22:46	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 22:46	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 22:46	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/02/22 22:46*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/02/22 22:46*	*1*

Client Sample ID: 0422-06

Date Collected: 04/21/22 14:45
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-5

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*05/02/22 22:46*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/02/22 22:46*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/05/22 00:25	1
Methyl iodide	ND		0.50		ug/L			05/05/22 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/05/22 00:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/05/22 00:25*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*05/05/22 00:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/05/22 00:25*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**49**		0.50		mg/L		05/03/22 19:48	05/04/22 21:04	1
Iron	**1.1**		0.30		mg/L		05/03/22 19:48	05/04/22 21:04	1
Magnesium	**26**		0.50		mg/L		05/03/22 19:48	05/04/22 21:04	1
Manganese	**0.30**		0.020		mg/L		05/03/22 19:48	05/04/22 21:04	1
Sodium	**22**		0.50		mg/L		05/03/22 19:48	05/04/22 21:04	1
Potassium	**4.7**		3.3		mg/L		05/03/22 19:48	05/04/22 21:04	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:11	1
Arsenic	**0.0048**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:11	1
Barium	**0.064**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:11	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:11	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:11	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:11	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:11	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:11	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:11	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:11	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:11	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:11	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:11	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:11	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 00:52	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/23/22 00:52	1
Chloride	**13**		1.5		mg/L			04/23/22 00:52	1
Sulfate	**25**		1.5		mg/L			04/23/22 00:52	1
Ammonia	ND		0.50		mg/L		04/30/22 20:46	04/30/22 23:30	1
Carbon, Total Organic	**0.76**		0.50		mg/L			05/05/22 05:48	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-06
Lab Sample ID: 580-112965-5
Date Collected: 04/21/22 14:45
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		7.0		mg/L			04/28/22 22:31	1
Bicarbonate Alkalinity as CaCO3	**250**		7.0		mg/L			04/28/22 22:31	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/28/22 22:31	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/28/22 22:31	1
Total Dissolved Solids	**540**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-01
Date Collected: 04/21/22 15:30
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 23:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 23:10	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 23:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 23:10	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 23:10	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 23:10	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 23:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 23:10	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 23:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 23:10	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 23:10	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 23:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 23:10	1
2-Butanone	ND		10		ug/L			05/02/22 23:10	1
2-Hexanone	ND		3.0		ug/L			05/02/22 23:10	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 23:10	1
Acrylonitrile	ND		10		ug/L			05/02/22 23:10	1
Benzene	ND		0.20		ug/L			05/02/22 23:10	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 23:10	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 23:10	1
Bromoform	ND		0.50		ug/L			05/02/22 23:10	1
Bromomethane	ND		0.50		ug/L			05/02/22 23:10	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 23:10	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 23:10	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 23:10	1
Chloroethane	ND		0.50		ug/L			05/02/22 23:10	1
Chloroform	ND		0.20		ug/L			05/02/22 23:10	1
Chloromethane	ND		0.50		ug/L			05/02/22 23:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 23:10	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 23:10	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 23:10	1
Dibromomethane	ND		0.20		ug/L			05/02/22 23:10	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 23:10	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 23:10	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 23:10	1
o-Xylene	ND		0.50		ug/L			05/02/22 23:10	1
Styrene	ND		1.0		ug/L			05/02/22 23:10	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 23:10	1
Toluene	ND		0.20		ug/L			05/02/22 23:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 23:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 23:10	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 23:10	1
Trichloroethene	ND		0.20		ug/L			05/02/22 23:10	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 23:10	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 23:10	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*05/02/22 23:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/02/22 23:10*	*1*

Client Sample ID: 0422-01
Date Collected: 04/21/22 15:30
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*05/02/22 23:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/02/22 23:10*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/05/22 00:49	1
Methyl iodide	ND		0.50		ug/L			05/05/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/22 00:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/05/22 00:49*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/05/22 00:49*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/05/22 00:49*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**61**		0.50		mg/L		05/03/22 19:48	05/04/22 21:07	1
Iron	**0.70**		0.30		mg/L		05/03/22 19:48	05/04/22 21:07	1
Magnesium	**41**		0.50		mg/L		05/03/22 19:48	05/04/22 21:07	1
Manganese	**0.17**		0.020		mg/L		05/03/22 19:48	05/04/22 21:07	1
Sodium	**24**		0.50		mg/L		05/03/22 19:48	05/04/22 21:07	1
Potassium	**6.0**		3.3		mg/L		05/03/22 19:48	05/04/22 21:07	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:15	1
Arsenic	**0.0062**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:15	1
Barium	**0.026**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:15	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:15	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:15	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:15	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:15	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:15	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:15	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:15	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:15	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:15	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:15	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:15	1
Zinc	**0.17**		0.0070		mg/L		05/03/22 19:46	05/04/22 20:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 01:04	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/23/22 01:04	1
Chloride	**23**		1.5		mg/L			04/23/22 01:04	1
Sulfate	**23**		1.5		mg/L			04/23/22 01:04	1
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1
Carbon, Total Organic	**1.1**		0.50		mg/L			05/05/22 06:11	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-01
Lab Sample ID: 580-112965-6
Date Collected: 04/21/22 15:30
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**350**		7.0		mg/L			04/28/22 22:31	1
Bicarbonate Alkalinity as CaCO3	**350**		7.0		mg/L			04/28/22 22:31	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/28/22 22:31	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/28/22 22:31	1
Total Dissolved Solids	**630**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client Sample ID: 0422-22
Lab Sample ID: 580-112965-7
Date Collected: 04/21/22 16:20
Matrix: Water
Date Received: 04/22/22 11:15

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/02/22 23:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 23:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 23:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 23:34	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 23:34	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 23:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 23:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 23:34	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 23:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 23:34	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 23:34	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 23:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 23:34	1
2-Butanone	ND		10		ug/L			05/02/22 23:34	1
2-Hexanone	ND		3.0		ug/L			05/02/22 23:34	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 23:34	1
Acrylonitrile	ND		10		ug/L			05/02/22 23:34	1
Benzene	ND		0.20		ug/L			05/02/22 23:34	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 23:34	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 23:34	1
Bromoform	ND		0.50		ug/L			05/02/22 23:34	1
Bromomethane	ND		0.50		ug/L			05/02/22 23:34	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 23:34	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 23:34	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 23:34	1
Chloroethane	ND		0.50		ug/L			05/02/22 23:34	1
Chloroform	ND		0.20		ug/L			05/02/22 23:34	1
Chloromethane	ND		0.50		ug/L			05/02/22 23:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 23:34	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 23:34	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 23:34	1
Dibromomethane	ND		0.20		ug/L			05/02/22 23:34	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 23:34	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 23:34	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 23:34	1
o-Xylene	ND		0.50		ug/L			05/02/22 23:34	1
Styrene	ND		1.0		ug/L			05/02/22 23:34	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 23:34	1
Toluene	ND		0.20		ug/L			05/02/22 23:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 23:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 23:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 23:34	1
Trichloroethene	ND		0.20		ug/L			05/02/22 23:34	1
Trichlorofluoromethane	**3.1**		0.50		ug/L			05/02/22 23:34	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 23:34	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/02/22 23:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/02/22 23:34*	*1*

Client Sample ID: 0422-22
Date Collected: 04/21/22 16:20
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/02/22 23:34*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/02/22 23:34*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			05/05/22 01:13	1
Methyl iodide	ND		0.50		ug/L			05/05/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/22 01:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/05/22 01:13*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/05/22 01:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/05/22 01:13*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		0.50		mg/L		05/03/22 19:48	05/04/22 21:11	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:11	1
Magnesium	**65**		0.50		mg/L		05/03/22 19:48	05/04/22 21:11	1
Manganese	**0.54**		0.020		mg/L		05/03/22 19:48	05/04/22 21:11	1
Sodium	**31**		0.50		mg/L		05/03/22 19:48	05/04/22 21:11	1
Potassium	**6.9**		3.3		mg/L		05/03/22 19:48	05/04/22 21:11	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:19	1
Arsenic	**0.0014**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:19	1
Barium	**0.055**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:19	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:19	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:19	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:19	1
Cobalt	**0.0011**		0.00040		mg/L		05/03/22 19:46	05/04/22 20:19	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:19	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:19	1
Nickel	**0.0054**		0.0030		mg/L		05/03/22 19:46	05/04/22 20:19	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:19	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:19	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:19	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:19	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 01:15	1
Nitrate Nitrite as N	**5.5**		0.40		mg/L			04/23/22 01:15	1
Chloride	**22**		1.5		mg/L			04/23/22 01:15	1
Sulfate	**65**		1.5		mg/L			04/23/22 01:15	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**1.2**		0.50		mg/L			05/05/22 06:43	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-22
Lab Sample ID: 580-112965-7
Date Collected: 04/21/22 16:20
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**600**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**600**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**980**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-14
Date Collected: 04/21/22 10:05
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 01:38	1
1,1,1-Trichloroethane	**0.36**		0.20		ug/L			05/05/22 01:38	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 01:38	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 01:38	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 01:38	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 01:38	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 01:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 01:38	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 01:38	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 01:38	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 01:38	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 01:38	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 01:38	1
2-Butanone	ND		10		ug/L			05/05/22 01:38	1
2-Hexanone	ND		3.0		ug/L			05/05/22 01:38	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 01:38	1
Acetone	ND		10		ug/L			05/05/22 01:38	1
Acrylonitrile	ND		10		ug/L			05/05/22 01:38	1
Benzene	ND		0.20		ug/L			05/05/22 01:38	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 01:38	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 01:38	1
Bromoform	ND		0.50		ug/L			05/05/22 01:38	1
Bromomethane	ND		0.50		ug/L			05/05/22 01:38	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 01:38	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 01:38	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 01:38	1
Chloroethane	ND		0.50		ug/L			05/05/22 01:38	1
Chloroform	ND		0.20		ug/L			05/05/22 01:38	1
Chloromethane	ND		0.50		ug/L			05/05/22 01:38	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 01:38	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 01:38	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 01:38	1
Dibromomethane	ND		0.20		ug/L			05/05/22 01:38	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 01:38	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 01:38	1
Methyl iodide	ND		0.50		ug/L			05/05/22 01:38	1
o-Xylene	ND		0.50		ug/L			05/05/22 01:38	1
Styrene	ND		1.0		ug/L			05/05/22 01:38	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 01:38	1
Toluene	ND		0.20		ug/L			05/05/22 01:38	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 01:38	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 01:38	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 01:38	1
Trichloroethene	ND		0.20		ug/L			05/05/22 01:38	1
Trichlorofluoromethane	**4.2**		0.50		ug/L			05/05/22 01:38	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/05/22 01:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/05/22 01:38*	*1*

Client Sample ID: 0422-14
Date Collected: 04/21/22 10:05
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/05/22 01:38*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/05/22 01:38*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		25		ug/L			05/05/22 15:02	5
Vinyl acetate	ND		10		ug/L			05/05/22 15:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/05/22 15:02*	*5*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*05/05/22 15:02*	*5*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/05/22 15:02*	*5*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/05/22 15:02*	*5*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		05/03/22 19:48	05/04/22 21:14	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:14	1
Magnesium	**63**		0.50		mg/L		05/03/22 19:48	05/04/22 21:14	1
Manganese	ND		0.020		mg/L		05/03/22 19:48	05/04/22 21:14	1
Sodium	**24**		0.50		mg/L		05/03/22 19:48	05/04/22 21:14	1
Potassium	**5.6**		3.3		mg/L		05/03/22 19:48	05/04/22 21:14	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:23	1
Arsenic	**0.0020**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:23	1
Barium	**0.027**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:23	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:23	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:23	1
Chromium	**0.010**		0.00080		mg/L		05/03/22 19:46	05/04/22 20:23	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:23	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:23	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:23	1
Nickel	**0.0037**		0.0030		mg/L		05/03/22 19:46	05/04/22 20:23	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:23	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:23	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:23	1
Vanadium	**0.0043**		0.0040		mg/L		05/03/22 19:46	05/04/22 20:23	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 01:27	1
Nitrate Nitrite as N	**22**		2.0		mg/L			04/23/22 01:39	5
Chloride	**55**		1.5		mg/L			04/23/22 01:27	1
Sulfate	**73**		1.5		mg/L			04/23/22 01:27	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**1.7**		0.50		mg/L			05/05/22 07:03	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-14
Lab Sample ID: 580-112965-8
Date Collected: 04/21/22 10:05
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**360**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**360**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**850**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-08
Date Collected: 04/21/22 11:10
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 15:24	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/22 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 15:24	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 15:24	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 15:24	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 15:24	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 15:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 15:24	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 15:24	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 15:24	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 15:24	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 15:24	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 15:24	1
2-Butanone	ND		10		ug/L			05/05/22 15:24	1
2-Hexanone	ND		3.0		ug/L			05/05/22 15:24	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 15:24	1
Acetone	ND		10		ug/L			05/05/22 15:24	1
Acrylonitrile	ND		10		ug/L			05/05/22 15:24	1
Benzene	ND		0.20		ug/L			05/05/22 15:24	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 15:24	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 15:24	1
Bromoform	ND		0.50		ug/L			05/05/22 15:24	1
Bromomethane	ND		0.50		ug/L			05/05/22 15:24	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 15:24	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 15:24	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 15:24	1
Chloroethane	ND		0.50		ug/L			05/05/22 15:24	1
Chloroform	ND		0.20		ug/L			05/05/22 15:24	1
Chloromethane	ND		0.50		ug/L			05/05/22 15:24	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 15:24	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 15:24	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 15:24	1
Dibromomethane	ND		0.20		ug/L			05/05/22 15:24	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 15:24	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 15:24	1
Methyl iodide	ND		0.50		ug/L			05/05/22 15:24	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 15:24	1
o-Xylene	ND		0.50		ug/L			05/05/22 15:24	1
Styrene	ND		1.0		ug/L			05/05/22 15:24	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 15:24	1
Toluene	ND		0.20		ug/L			05/05/22 15:24	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 15:24	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 15:24	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 15:24	1
Trichloroethene	ND		0.20		ug/L			05/05/22 15:24	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/22 15:24	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*05/05/22 15:24*	*1*

Client Sample ID: 0422-08

Date Collected: 04/21/22 11:10
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-9

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/05/22 15:24*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*05/05/22 15:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/05/22 15:24*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			05/05/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/22 15:26*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*05/05/22 15:26*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*05/05/22 15:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/05/22 15:26*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**45**		0.50		mg/L		05/03/22 19:48	05/04/22 21:17	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:17	1
Magnesium	**31**		0.50		mg/L		05/03/22 19:48	05/04/22 21:17	1
Manganese	**0.092**		0.020		mg/L		05/03/22 19:48	05/04/22 21:17	1
Sodium	**25**		0.50		mg/L		05/03/22 19:48	05/04/22 21:17	1
Potassium	**11**		3.3		mg/L		05/03/22 19:48	05/04/22 21:17	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:27	1
Arsenic	**0.015**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:27	1
Barium	**0.040**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:27	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:27	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:27	1
Chromium	**0.0013**		0.00080		mg/L		05/03/22 19:46	05/04/22 20:27	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:27	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:27	1
Lead	**0.00042**		0.00040		mg/L		05/03/22 19:46	05/04/22 20:27	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:27	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:27	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:27	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:27	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:27	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 01:50	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/23/22 01:50	1
Chloride	**31**		1.5		mg/L			04/23/22 01:50	1
Sulfate	**14**		1.5		mg/L			04/23/22 01:50	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**2.3**		0.50		mg/L			05/05/22 07:26	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-08
Lab Sample ID: 580-112965-9
Date Collected: 04/21/22 11:10
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**230**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**230**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**600**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-07
Date Collected: 04/21/22 12:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 15:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/22 15:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 15:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 15:48	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 15:48	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 15:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 15:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 15:48	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 15:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 15:48	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 15:48	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 15:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 15:48	1
2-Butanone	ND		10		ug/L			05/05/22 15:48	1
2-Hexanone	ND		3.0		ug/L			05/05/22 15:48	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 15:48	1
Acetone	ND		10		ug/L			05/05/22 15:48	1
Acrylonitrile	ND		10		ug/L			05/05/22 15:48	1
Benzene	ND		0.20		ug/L			05/05/22 15:48	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 15:48	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 15:48	1
Bromoform	ND		0.50		ug/L			05/05/22 15:48	1
Bromomethane	ND		0.50		ug/L			05/05/22 15:48	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 15:48	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 15:48	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 15:48	1
Chloroethane	ND		0.50		ug/L			05/05/22 15:48	1
Chloroform	ND		0.20		ug/L			05/05/22 15:48	1
Chloromethane	ND		0.50		ug/L			05/05/22 15:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 15:48	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 15:48	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 15:48	1
Dibromomethane	ND		0.20		ug/L			05/05/22 15:48	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 15:48	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 15:48	1
Methyl iodide	ND		0.50		ug/L			05/05/22 15:48	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 15:48	1
o-Xylene	ND		0.50		ug/L			05/05/22 15:48	1
Styrene	ND		1.0		ug/L			05/05/22 15:48	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 15:48	1
Toluene	ND		0.20		ug/L			05/05/22 15:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 15:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 15:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 15:48	1
Trichloroethene	ND		0.20		ug/L			05/05/22 15:48	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/22 15:48	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*		*05/05/22 15:48*	*1*

Client Sample ID: 0422-07
Date Collected: 04/21/22 12:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-10
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/05/22 15:48*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/05/22 15:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/05/22 15:48*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			05/05/22 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/05/22 15:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/05/22 15:51*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/05/22 15:51*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/05/22 15:51*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		0.50		mg/L		05/03/22 19:48	05/04/22 21:21	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:21	1
Magnesium	**59**		0.50		mg/L		05/03/22 19:48	05/04/22 21:21	1
Manganese	ND		0.020		mg/L		05/03/22 19:48	05/04/22 21:21	1
Sodium	**30**		0.50		mg/L		05/03/22 19:48	05/04/22 21:21	1
Potassium	**6.3**		3.3		mg/L		05/03/22 19:48	05/04/22 21:21	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:30	1
Arsenic	**0.0024**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:30	1
Barium	**0.050**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:30	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:30	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:30	1
Chromium	**0.0053**		0.00080		mg/L		05/03/22 19:46	05/04/22 20:30	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:30	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:30	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:30	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:30	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:30	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:30	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:30	1
Vanadium	**0.0063**		0.0040		mg/L		05/03/22 19:46	05/04/22 20:30	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 02:02	1
Nitrate Nitrite as N	**4.6**	**F1**	0.40		mg/L			04/23/22 02:02	1
Chloride	**30**		1.5		mg/L			04/23/22 02:02	1
Sulfate	**43**		1.5		mg/L			04/23/22 02:02	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**0.91**		0.50		mg/L			05/05/22 07:49	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-07
Lab Sample ID: 580-112965-10
Date Collected: 04/21/22 12:00
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**580**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**580**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**1100**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-03
Date Collected: 04/21/22 13:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-11
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 16:12	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/22 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 16:12	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 16:12	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 16:12	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 16:12	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 16:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 16:12	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 16:12	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 16:12	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 16:12	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 16:12	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 16:12	1
2-Butanone	ND		10		ug/L			05/05/22 16:12	1
2-Hexanone	ND		3.0		ug/L			05/05/22 16:12	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 16:12	1
Acetone	ND		10		ug/L			05/05/22 16:12	1
Acrylonitrile	ND		10		ug/L			05/05/22 16:12	1
Benzene	ND		0.20		ug/L			05/05/22 16:12	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 16:12	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 16:12	1
Bromoform	ND		0.50		ug/L			05/05/22 16:12	1
Bromomethane	ND		0.50		ug/L			05/05/22 16:12	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 16:12	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 16:12	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 16:12	1
Chloroethane	ND		0.50		ug/L			05/05/22 16:12	1
Chloroform	ND		0.20		ug/L			05/05/22 16:12	1
Chloromethane	ND		0.50		ug/L			05/05/22 16:12	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 16:12	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 16:12	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 16:12	1
Dibromomethane	ND		0.20		ug/L			05/05/22 16:12	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 16:12	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 16:12	1
Methyl iodide	ND		0.50		ug/L			05/05/22 16:12	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 16:12	1
o-Xylene	ND		0.50		ug/L			05/05/22 16:12	1
Styrene	ND		1.0		ug/L			05/05/22 16:12	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 16:12	1
Toluene	ND		0.20		ug/L			05/05/22 16:12	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 16:12	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 16:12	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 16:12	1
Trichloroethene	ND		0.20		ug/L			05/05/22 16:12	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/22 16:12	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*05/05/22 16:12*	*1*

Client Sample ID: 0422-03
Date Collected: 04/21/22 13:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-11
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/05/22 16:12*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*05/05/22 16:12*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/05/22 16:12*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			05/05/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*05/05/22 16:15*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/05/22 16:15*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/05/22 16:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/05/22 16:15*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		0.50		mg/L		05/03/22 19:48	05/04/22 21:24	1
Iron	**1.8**		0.30		mg/L		05/03/22 19:48	05/04/22 21:24	1
Magnesium	**74**		0.50		mg/L		05/03/22 19:48	05/04/22 21:24	1
Manganese	**0.34**		0.020		mg/L		05/03/22 19:48	05/04/22 21:24	1
Sodium	**33**		0.50		mg/L		05/03/22 19:48	05/04/22 21:24	1
Potassium	**7.7**		3.3		mg/L		05/03/22 19:48	05/04/22 21:24	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:34	1
Arsenic	**0.0055**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:34	1
Barium	**0.067**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:34	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:34	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:34	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:34	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:34	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:34	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:34	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:34	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:34	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:34	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:34	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:34	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.20**		0.20		mg/L			04/23/22 02:37	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/23/22 02:37	1
Chloride	**23**		1.5		mg/L			04/23/22 02:37	1
Sulfate	**31**		1.5		mg/L			04/23/22 02:37	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**1.4**		0.50		mg/L			05/05/22 08:11	1

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-03
Lab Sample ID: 580-112965-11
Date Collected: 04/21/22 13:00
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**680**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**680**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**870**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-02
Date Collected: 04/21/22 14:40
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-12
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 16:36	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/22 16:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 16:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 16:36	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 16:36	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 16:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 16:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 16:36	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 16:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 16:36	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 16:36	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 16:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 16:36	1
2-Butanone	ND		10		ug/L			05/05/22 16:36	1
2-Hexanone	ND		3.0		ug/L			05/05/22 16:36	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 16:36	1
Acetone	ND		10		ug/L			05/05/22 16:36	1
Acrylonitrile	ND		10		ug/L			05/05/22 16:36	1
Benzene	ND		0.20		ug/L			05/05/22 16:36	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 16:36	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 16:36	1
Bromoform	ND		0.50		ug/L			05/05/22 16:36	1
Bromomethane	ND		0.50		ug/L			05/05/22 16:36	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 16:36	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 16:36	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 16:36	1
Chloroethane	ND		0.50		ug/L			05/05/22 16:36	1
Chloroform	ND		0.20		ug/L			05/05/22 16:36	1
Chloromethane	ND		0.50		ug/L			05/05/22 16:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 16:36	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 16:36	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 16:36	1
Dibromomethane	ND		0.20		ug/L			05/05/22 16:36	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 16:36	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 16:36	1
Methyl iodide	ND		0.50		ug/L			05/05/22 16:36	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 16:36	1
o-Xylene	ND		0.50		ug/L			05/05/22 16:36	1
Styrene	ND		1.0		ug/L			05/05/22 16:36	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 16:36	1
Toluene	ND		0.20		ug/L			05/05/22 16:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 16:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 16:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 16:36	1
Trichloroethene	ND		0.20		ug/L			05/05/22 16:36	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/22 16:36	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/05/22 16:36*	*1*

Client Sample ID: 0422-02
Date Collected: 04/21/22 14:40
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-12
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/05/22 16:36*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/05/22 16:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/05/22 16:36*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			05/05/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*05/05/22 16:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/05/22 16:40*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*05/05/22 16:40*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/05/22 16:40*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64**		0.50		mg/L		05/03/22 19:48	05/04/22 21:35	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:35	1
Magnesium	**41**		0.50		mg/L		05/03/22 19:48	05/04/22 21:35	1
Manganese	**0.17**		0.020		mg/L		05/03/22 19:48	05/04/22 21:35	1
Sodium	**24**		0.50		mg/L		05/03/22 19:48	05/04/22 21:35	1
Potassium	**5.9**		3.3		mg/L		05/03/22 19:48	05/04/22 21:35	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:38	1
Arsenic	**0.0061**		0.0010		mg/L		05/03/22 19:46	05/04/22 20:38	1
Barium	**0.026**		0.0012		mg/L		05/03/22 19:46	05/04/22 20:38	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:38	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:38	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 20:38	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:38	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 20:38	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:38	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 20:38	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 20:38	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 20:38	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 20:38	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 20:38	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 20:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 03:24	1
Nitrate Nitrite as N	ND		0.40		mg/L			04/23/22 03:24	1
Chloride	**34**		1.5		mg/L			04/23/22 03:24	1
Sulfate	**16**		1.5		mg/L			04/23/22 03:24	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**1.1**		0.50		mg/L			05/05/22 08:34	1

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-02
Lab Sample ID: 580-112965-12
Date Collected: 04/21/22 14:40
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**330**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**590**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: 0422-21
Date Collected: 04/21/22 16:05
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-13
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 17:01	1
1,1,1-Trichloroethane	**0.40**		0.20		ug/L			05/05/22 17:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 17:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 17:01	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 17:01	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 17:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 17:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 17:01	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 17:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 17:01	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 17:01	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 17:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 17:01	1
2-Butanone	ND		10		ug/L			05/05/22 17:01	1
2-Hexanone	ND		3.0		ug/L			05/05/22 17:01	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 17:01	1
Acetone	ND		10		ug/L			05/05/22 17:01	1
Acrylonitrile	ND		10		ug/L			05/05/22 17:01	1
Benzene	ND		0.20		ug/L			05/05/22 17:01	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 17:01	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 17:01	1
Bromoform	ND		0.50		ug/L			05/05/22 17:01	1
Bromomethane	ND		0.50		ug/L			05/05/22 17:01	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 17:01	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 17:01	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 17:01	1
Chloroethane	ND		0.50		ug/L			05/05/22 17:01	1
Chloroform	ND		0.20		ug/L			05/05/22 17:01	1
Chloromethane	ND		0.50		ug/L			05/05/22 17:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 17:01	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 17:01	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 17:01	1
Dibromomethane	ND		0.20		ug/L			05/05/22 17:01	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 17:01	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 17:01	1
Methyl iodide	ND		0.50		ug/L			05/05/22 17:01	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 17:01	1
o-Xylene	ND		0.50		ug/L			05/05/22 17:01	1
Styrene	ND		1.0		ug/L			05/05/22 17:01	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 17:01	1
Toluene	ND		0.20		ug/L			05/05/22 17:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 17:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 17:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 17:01	1
Trichloroethene	ND		0.20		ug/L			05/05/22 17:01	1
Trichlorofluoromethane	**3.1**		0.50		ug/L			05/05/22 17:01	1
Vinyl chloride	**16**		0.020		ug/L			05/05/22 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/05/22 17:01*	*1*

Client Sample ID: 0422-21

Date Collected: 04/21/22 16:05
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-13

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/05/22 17:01*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/05/22 17:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/05/22 17:01*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			05/05/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*05/05/22 17:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/05/22 17:05*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*05/05/22 17:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/05/22 17:05*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		0.50		mg/L		05/03/22 19:48	05/04/22 21:38	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 21:38	1
Magnesium	**77**		0.50		mg/L		05/03/22 19:48	05/04/22 21:38	1
Manganese	**0.050**		0.020		mg/L		05/03/22 19:48	05/04/22 21:38	1
Sodium	**31**		0.50		mg/L		05/03/22 19:48	05/04/22 21:38	1
Potassium	**7.5**		3.3		mg/L		05/03/22 19:48	05/04/22 21:38	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 21:01	1
Arsenic	**0.0015**		0.0010		mg/L		05/03/22 19:46	05/04/22 21:01	1
Barium	**0.035**		0.0012		mg/L		05/03/22 19:46	05/04/22 21:01	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 21:01	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 21:01	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 21:01	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 21:01	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 21:01	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 21:01	1
Nickel	**0.0071**		0.0030		mg/L		05/03/22 19:46	05/04/22 21:01	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 21:01	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 21:01	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 21:01	1
Vanadium	**0.0055**		0.0040		mg/L		05/03/22 19:46	05/04/22 21:01	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 21:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			04/23/22 03:36	1
Nitrate Nitrite as N	**11**		2.0		mg/L			04/23/22 03:47	5
Chloride	**38**		1.5		mg/L			04/23/22 03:36	1
Sulfate	**82**		1.5		mg/L			04/23/22 03:36	1
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1
Carbon, Total Organic	**2.2**		0.50		mg/L			05/05/22 08:57	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-21
Lab Sample ID: 580-112965-13
Date Collected: 04/21/22 16:05
Matrix: Water
Date Received: 04/22/22 11:15

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**600**		7.0		mg/L			04/30/22 17:25	1
Bicarbonate Alkalinity as CaCO3	**600**		7.0		mg/L			04/30/22 17:25	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			04/30/22 17:25	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			04/30/22 17:25	1
Total Dissolved Solids	**1000**		10		mg/L			04/28/22 15:49	1
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:40	04/29/22 20:36	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: Trip Blank

Date Collected: 04/21/22 00:01
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-14

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			05/05/22 17:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/22 17:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 17:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 17:25	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 17:25	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 17:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 17:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 17:25	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 17:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 17:25	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 17:25	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 17:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 17:25	1
2-Butanone	ND		10		ug/L			05/05/22 17:25	1
2-Hexanone	ND		3.0		ug/L			05/05/22 17:25	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 17:25	1
Acetone	ND		10		ug/L			05/05/22 17:25	1
Acrylonitrile	ND		10		ug/L			05/05/22 17:25	1
Benzene	ND		0.20		ug/L			05/05/22 17:25	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 17:25	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 17:25	1
Bromoform	ND		0.50		ug/L			05/05/22 17:25	1
Bromomethane	ND		0.50		ug/L			05/05/22 17:25	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 17:25	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 17:25	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 17:25	1
Chloroethane	ND		0.50		ug/L			05/05/22 17:25	1
Chloroform	ND		0.20		ug/L			05/05/22 17:25	1
Chloromethane	ND		0.50		ug/L			05/05/22 17:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 17:25	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 17:25	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 17:25	1
Dibromomethane	ND		0.20		ug/L			05/05/22 17:25	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 17:25	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 17:25	1
Methyl iodide	ND		0.50		ug/L			05/05/22 17:25	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 17:25	1
o-Xylene	ND		0.50		ug/L			05/05/22 17:25	1
Styrene	ND		1.0		ug/L			05/05/22 17:25	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 17:25	1
Toluene	ND		0.20		ug/L			05/05/22 17:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 17:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 17:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 17:25	1
Trichloroethene	ND		0.20		ug/L			05/05/22 17:25	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/22 17:25	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*05/05/22 17:25*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Client Sample ID: Trip Blank

Date Collected: 04/21/22 00:01
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-14

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/05/22 17:25*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*05/05/22 17:25*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/05/22 17:25*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			05/05/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/22 17:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/05/22 17:30*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*05/05/22 17:30*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/05/22 17:30*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-389143/6
Matrix: Water
Analysis Batch: 389143

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		0.30		ug/L			05/02/22 17:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1-Dichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,1-Dichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/02/22 17:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/02/22 17:01	1
1,2-Dibromoethane	ND		0.10		ug/L			05/02/22 17:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/02/22 17:01	1
1,2-Dichloroethane	ND		0.20		ug/L			05/02/22 17:01	1
1,2-Dichloropropane	ND		0.20		ug/L			05/02/22 17:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/02/22 17:01	1
2-Butanone	ND		10		ug/L			05/02/22 17:01	1
2-Hexanone	ND		3.0		ug/L			05/02/22 17:01	1
4-Methyl-2-pentanone	ND		10		ug/L			05/02/22 17:01	1
Acrylonitrile	ND		10		ug/L			05/02/22 17:01	1
Benzene	ND		0.20		ug/L			05/02/22 17:01	1
Bromochloromethane	ND		0.20		ug/L			05/02/22 17:01	1
Bromodichloromethane	ND		0.20		ug/L			05/02/22 17:01	1
Bromoform	ND		0.50		ug/L			05/02/22 17:01	1
Bromomethane	ND		0.50		ug/L			05/02/22 17:01	1
Carbon disulfide	ND		0.30		ug/L			05/02/22 17:01	1
Carbon tetrachloride	ND		0.20		ug/L			05/02/22 17:01	1
Chlorobenzene	ND		0.20		ug/L			05/02/22 17:01	1
Chloroethane	ND		0.50		ug/L			05/02/22 17:01	1
Chloroform	ND		0.20		ug/L			05/02/22 17:01	1
Chloromethane	ND		0.50		ug/L			05/02/22 17:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 17:01	1
Dibromochloromethane	ND		0.20		ug/L			05/02/22 17:01	1
Dibromomethane	ND		0.20		ug/L			05/02/22 17:01	1
Ethylbenzene	ND		0.20		ug/L			05/02/22 17:01	1
m,p-Xylene	ND		0.50		ug/L			05/02/22 17:01	1
Methylene Chloride	ND		5.0		ug/L			05/02/22 17:01	1
o-Xylene	ND		0.50		ug/L			05/02/22 17:01	1
Styrene	ND		1.0		ug/L			05/02/22 17:01	1
Tetrachloroethene	ND		0.50		ug/L			05/02/22 17:01	1
Toluene	ND		0.20		ug/L			05/02/22 17:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/02/22 17:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/02/22 17:01	1
Trichloroethene	ND		0.20		ug/L			05/02/22 17:01	1
Trichlorofluoromethane	ND		0.50		ug/L			05/02/22 17:01	1
Vinyl acetate	ND		2.0		ug/L			05/02/22 17:01	1
Vinyl chloride	ND		0.020		ug/L			05/02/22 17:01	1

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

Lab Sample ID: MB 580-389143/6
Matrix: Water
Analysis Batch: 389143

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		05/02/22 17:01	1
4-Bromofluorobenzene (Surr)	106		80 - 120		05/02/22 17:01	1
Dibromofluoromethane (Surr)	99		80 - 120		05/02/22 17:01	1
Toluene-d8 (Surr)	104		80 - 120		05/02/22 17:01	1

Lab Sample ID: LCS 580-389143/3
Matrix: Water
Analysis Batch: 389143

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	5.22		ug/L		104	69 - 127
1,1,1-Trichloroethane	5.00	5.27		ug/L		105	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.16		ug/L		103	67 - 136
1,1,2-Trichloroethane	5.00	5.33		ug/L		107	73 - 127
1,1-Dichloroethane	5.00	4.53		ug/L		91	74 - 120
1,1-Dichloroethene	5.00	4.15		ug/L		83	60 - 129
1,2,3-Trichloropropane	5.00	5.25		ug/L		105	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	6.17		ug/L		123	55 - 135
1,2-Dibromoethane	5.00	5.65		ug/L		113	61 - 143
1,2-Dichlorobenzene	5.00	5.07		ug/L		101	72 - 129
1,2-Dichloroethane	5.00	4.49		ug/L		90	74 - 127
1,2-Dichloropropane	5.00	5.08		ug/L		102	69 - 130
1,4-Dichlorobenzene	5.00	5.05		ug/L		101	71 - 129
2-Butanone	25.0	26.0		ug/L		104	37 - 150
2-Hexanone	25.0	29.0		ug/L		116	56 - 150
4-Methyl-2-pentanone	25.0	26.9		ug/L		108	63 - 137
Acrylonitrile	50.0	51.6		ug/L		103	50 - 145
Benzene	5.00	4.67		ug/L		93	80 - 120
Bromochloromethane	5.00	4.31		ug/L		86	79 - 121
Bromodichloromethane	5.00	5.19		ug/L		104	74 - 131
Bromoform	5.00	5.49		ug/L		110	48 - 127
Bromomethane	5.00	4.40		ug/L		88	51 - 148
Carbon disulfide	5.00	5.81		ug/L		116	54 - 142
Carbon tetrachloride	5.00	5.14		ug/L		103	66 - 130
Chlorobenzene	5.00	4.81		ug/L		96	74 - 123
Chloroethane	5.00	4.02		ug/L		80	54 - 140
Chloroform	5.00	4.49		ug/L		90	75 - 120
Chloromethane	5.00	4.22		ug/L		84	32 - 150
cis-1,2-Dichloroethene	5.00	4.48		ug/L		90	72 - 120
cis-1,3-Dichloropropene	5.00	5.50		ug/L		110	77 - 131
Dibromochloromethane	5.00	5.27		ug/L		105	62 - 141
Dibromomethane	5.00	4.97		ug/L		99	65 - 141
Ethylbenzene	5.00	5.09		ug/L		102	80 - 124
m,p-Xylene	5.00	4.55		ug/L		91	75 - 124
Methylene Chloride	5.00	4.75	J	ug/L		95	40 - 142
o-Xylene	5.00	5.14		ug/L		103	71 - 124
Styrene	5.00	5.15		ug/L		103	74 - 127
Tetrachloroethene	5.00	5.21		ug/L		104	75 - 124

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

Lab Sample ID: LCS 580-389143/3
Matrix: Water
Analysis Batch: 389143

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	5.00	4.69		ug/L		94	80 - 126
trans-1,2-Dichloroethene	5.00	4.67		ug/L		93	69 - 121
trans-1,3-Dichloropropene	5.00	5.95		ug/L		119	71 - 138
trans-1,4-Dichloro-2-butene	5.00	5.61		ug/L		112	20 - 150
Trichloroethene	5.00	4.89		ug/L		98	72 - 120
Trichlorofluoromethane	5.00	4.51		ug/L		90	60 - 132
Vinyl acetate	12.5	11.8		ug/L		95	38 - 150
Vinyl chloride	5.00	4.32		ug/L		86	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: LCSD 580-389143/4
Matrix: Water
Analysis Batch: 389143

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	4.95		ug/L		99	69 - 127	5	22
1,1,1-Trichloroethane	5.00	5.01		ug/L		100	70 - 121	5	24
1,1,2,2-Tetrachloroethane	5.00	4.90		ug/L		98	67 - 136	5	24
1,1,2-Trichloroethane	5.00	5.26		ug/L		105	73 - 127	1	22
1,1-Dichloroethane	5.00	4.54		ug/L		91	74 - 120	0	26
1,1-Dichloroethene	5.00	4.31		ug/L		86	60 - 129	4	29
1,2,3-Trichloropropane	5.00	5.42		ug/L		108	67 - 135	3	25
1,2-Dibromo-3-Chloropropane	5.00	5.46		ug/L		109	55 - 135	12	29
1,2-Dibromoethane	5.00	5.54		ug/L		111	61 - 143	2	22
1,2-Dichlorobenzene	5.00	4.81		ug/L		96	72 - 129	5	22
1,2-Dichloroethane	5.00	4.59		ug/L		92	74 - 127	2	21
1,2-Dichloropropane	5.00	4.90		ug/L		98	69 - 130	4	22
1,4-Dichlorobenzene	5.00	4.89		ug/L		98	71 - 129	3	22
2-Butanone	25.0	24.6		ug/L		98	37 - 150	6	35
2-Hexanone	25.0	28.2		ug/L		113	56 - 150	3	29
4-Methyl-2-pentanone	25.0	26.2		ug/L		105	63 - 137	3	26
Acrylonitrile	50.0	50.4		ug/L		101	50 - 145	2	33
Benzene	5.00	4.59		ug/L		92	80 - 120	2	22
Bromochloromethane	5.00	4.25		ug/L		85	79 - 121	2	20
Bromodichloromethane	5.00	5.11		ug/L		102	74 - 131	2	21
Bromoform	5.00	5.04		ug/L		101	48 - 127	8	23
Bromomethane	5.00	4.17		ug/L		83	51 - 148	5	35
Carbon disulfide	5.00	4.76		ug/L		95	54 - 142	20	34
Carbon tetrachloride	5.00	4.75		ug/L		95	66 - 130	8	24
Chlorobenzene	5.00	4.50		ug/L		90	74 - 123	7	21
Chloroethane	5.00	4.12		ug/L		82	54 - 140	2	33
Chloroform	5.00	4.50		ug/L		90	75 - 120	0	21
Chloromethane	5.00	4.20		ug/L		84	32 - 150	0	33

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

Lab Sample ID: LCSD 580-389143/4
Matrix: Water
Analysis Batch: 389143

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			5.00	4.48		ug/L		90	72 - 120	0	22
cis-1,3-Dichloropropene			5.00	5.43		ug/L		109	77 - 131	1	24
Dibromochloromethane			5.00	5.24		ug/L		105	62 - 141	1	22
Dibromomethane			5.00	4.61		ug/L		92	65 - 141	8	22
Ethylbenzene			5.00	4.83		ug/L		97	80 - 124	5	22
m,p-Xylene			5.00	4.32		ug/L		86	75 - 124	5	22
Methylene Chloride			5.00	4.56	J	ug/L		91	40 - 142	4	25
o-Xylene			5.00	4.86		ug/L		97	71 - 124	6	23
Styrene			5.00	4.96		ug/L		99	74 - 127	4	22
Tetrachloroethene			5.00	4.98		ug/L		100	75 - 124	5	20
Toluene			5.00	4.51		ug/L		90	80 - 126	4	20
trans-1,2-Dichloroethene			5.00	4.32		ug/L		86	69 - 121	8	27
trans-1,3-Dichloropropene			5.00	5.72		ug/L		114	71 - 138	4	26
trans-1,4-Dichloro-2-butene			5.00	5.20		ug/L		104	20 - 150	7	35
Trichloroethene			5.00	4.71		ug/L		94	72 - 120	4	22
Trichlorofluoromethane			5.00	4.59		ug/L		92	60 - 132	2	32
Vinyl acetate			12.5	12.4		ug/L		99	38 - 150	4	35
Vinyl chloride			5.00	4.24		ug/L		85	41 - 150	2	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: MB 580-389531/6
Matrix: Water
Analysis Batch: 389531

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		0.30		ug/L			05/04/22 18:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/04/22 18:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/04/22 18:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/04/22 18:46	1
1,1-Dichloroethane	ND		0.20		ug/L			05/04/22 18:46	1
1,1-Dichloroethene	ND		0.20		ug/L			05/04/22 18:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/04/22 18:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/04/22 18:46	1
1,2-Dibromoethane	ND		0.10		ug/L			05/04/22 18:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/04/22 18:46	1
1,2-Dichloroethane	ND		0.20		ug/L			05/04/22 18:46	1
1,2-Dichloropropane	ND		0.20		ug/L			05/04/22 18:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/04/22 18:46	1
2-Butanone	ND		10		ug/L			05/04/22 18:46	1
2-Hexanone	ND		3.0		ug/L			05/04/22 18:46	1
4-Methyl-2-pentanone	ND		10		ug/L			05/04/22 18:46	1
Acetone	ND		10		ug/L			05/04/22 18:46	1
Acrylonitrile	ND		10		ug/L			05/04/22 18:46	1

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

Lab Sample ID: MB 580-389531/6
Matrix: Water
Analysis Batch: 389531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20		ug/L			05/04/22 18:46	1
Bromochloromethane	ND		0.20		ug/L			05/04/22 18:46	1
Bromodichloromethane	ND		0.20		ug/L			05/04/22 18:46	1
Bromoform	ND		0.50		ug/L			05/04/22 18:46	1
Bromomethane	ND		0.50		ug/L			05/04/22 18:46	1
Carbon disulfide	ND		0.30		ug/L			05/04/22 18:46	1
Carbon tetrachloride	ND		0.20		ug/L			05/04/22 18:46	1
Chlorobenzene	ND		0.20		ug/L			05/04/22 18:46	1
Chloroethane	ND		0.50		ug/L			05/04/22 18:46	1
Chloroform	ND		0.20		ug/L			05/04/22 18:46	1
Chloromethane	ND		0.50		ug/L			05/04/22 18:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/04/22 18:46	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/04/22 18:46	1
Dibromochloromethane	ND		0.20		ug/L			05/04/22 18:46	1
Dibromomethane	ND		0.20		ug/L			05/04/22 18:46	1
Ethylbenzene	ND		0.20		ug/L			05/04/22 18:46	1
m,p-Xylene	ND		0.50		ug/L			05/04/22 18:46	1
Methyl iodide	ND		0.50		ug/L			05/04/22 18:46	1
o-Xylene	ND		0.50		ug/L			05/04/22 18:46	1
Styrene	ND		1.0		ug/L			05/04/22 18:46	1
Tetrachloroethene	ND		0.50		ug/L			05/04/22 18:46	1
Toluene	ND		0.20		ug/L			05/04/22 18:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/04/22 18:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/04/22 18:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/04/22 18:46	1
Trichloroethene	ND		0.20		ug/L			05/04/22 18:46	1
Trichlorofluoromethane	ND		0.50		ug/L			05/04/22 18:46	1
Vinyl chloride	ND		0.020		ug/L			05/04/22 18:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/04/22 18:46*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/04/22 18:46*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/04/22 18:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/04/22 18:46*	*1*

Lab Sample ID: LCS 580-389531/3
Matrix: Water
Analysis Batch: 389531

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	5.02		ug/L		100	69 - 127
1,1,1-Trichloroethane	5.00	5.26		ug/L		105	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.43		ug/L		109	67 - 136
1,1,2-Trichloroethane	5.00	4.99		ug/L		100	73 - 127
1,1-Dichloroethane	5.00	5.08		ug/L		102	74 - 120
1,1-Dichloroethene	5.00	5.57		ug/L		111	60 - 129
1,2,3-Trichloropropane	5.00	5.27		ug/L		105	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.06		ug/L		101	55 - 135

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

Lab Sample ID: LCS 580-389531/3
Matrix: Water
Analysis Batch: 389531

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	5.00	5.20		ug/L		104	61 - 143
1,2-Dichlorobenzene	5.00	5.15		ug/L		103	72 - 129
1,2-Dichloroethane	5.00	4.57		ug/L		91	74 - 127
1,2-Dichloropropane	5.00	4.86		ug/L		97	69 - 130
1,4-Dichlorobenzene	5.00	5.13		ug/L		103	71 - 129
2-Butanone	25.0	19.1		ug/L		76	37 - 150
2-Hexanone	25.0	21.5		ug/L		86	56 - 150
4-Methyl-2-pentanone	25.0	24.0		ug/L		96	63 - 137
Acetone	25.0	25.2		ug/L		101	49 - 150
Acrylonitrile	50.0	34.8		ug/L		70	50 - 145
Benzene	5.00	5.08		ug/L		102	80 - 120
Bromochloromethane	5.00	4.93		ug/L		99	79 - 121
Bromodichloromethane	5.00	5.06		ug/L		101	74 - 131
Bromoform	5.00	5.03		ug/L		101	48 - 127
Bromomethane	5.00	6.14		ug/L		123	51 - 148
Carbon disulfide	5.00	5.24		ug/L		105	54 - 142
Carbon tetrachloride	5.00	5.28		ug/L		106	66 - 130
Chlorobenzene	5.00	5.07		ug/L		101	74 - 123
Chloroethane	5.00	5.80		ug/L		116	54 - 140
Chloroform	5.00	5.04		ug/L		101	75 - 120
Chloromethane	5.00	5.02		ug/L		100	32 - 150
cis-1,2-Dichloroethene	5.00	4.81		ug/L		96	72 - 120
cis-1,3-Dichloropropene	5.00	4.91		ug/L		98	77 - 131
Dibromochloromethane	5.00	5.08		ug/L		102	62 - 141
Dibromomethane	5.00	5.20		ug/L		104	65 - 141
Ethylbenzene	5.00	5.19		ug/L		104	80 - 124
m,p-Xylene	5.00	4.97		ug/L		99	75 - 124
Methyl iodide	5.00	5.44		ug/L		109	60 - 128
o-Xylene	5.00	5.22		ug/L		104	71 - 124
Styrene	5.00	4.71		ug/L		94	74 - 127
Tetrachloroethene	5.00	5.41		ug/L		108	75 - 124
Toluene	5.00	5.10		ug/L		102	80 - 126
trans-1,2-Dichloroethene	5.00	5.15		ug/L		103	69 - 121
trans-1,3-Dichloropropene	5.00	4.71		ug/L		94	71 - 138
trans-1,4-Dichloro-2-butene	5.00	4.55		ug/L		91	20 - 150
Trichloroethene	5.00	4.89		ug/L		98	72 - 120
Trichlorofluoromethane	5.00	5.63		ug/L		113	60 - 132
Vinyl chloride	5.00	5.79		ug/L		116	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: LCSD 580-389531/4
Matrix: Water
Analysis Batch: 389531

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	5.18		ug/L		104	69 - 127	3	22
1,1,1-Trichloroethane			5.00	5.63		ug/L		113	70 - 121	7	24
1,1,2,2-Tetrachloroethane			5.00	5.08		ug/L		102	67 - 136	7	24
1,1,2-Trichloroethane			5.00	5.01		ug/L		100	73 - 127	0	22
1,1-Dichloroethane			5.00	5.29		ug/L		106	74 - 120	4	26
1,1-Dichloroethene			5.00	5.78		ug/L		116	60 - 129	4	29
1,2,3-Trichloropropane			5.00	5.32		ug/L		106	67 - 135	1	25
1,2-Dibromo-3-Chloropropane			5.00	4.85		ug/L		97	55 - 135	4	29
1,2-Dibromoethane			5.00	5.11		ug/L		102	61 - 143	2	22
1,2-Dichlorobenzene			5.00	5.19		ug/L		104	72 - 129	1	22
1,2-Dichloroethane			5.00	4.81		ug/L		96	74 - 127	5	21
1,2-Dichloropropane			5.00	4.97		ug/L		99	69 - 130	2	22
1,4-Dichlorobenzene			5.00	5.37		ug/L		107	71 - 129	5	22
2-Butanone			25.0	24.6		ug/L		98	37 - 150	25	35
2-Hexanone			25.0	21.5		ug/L		86	56 - 150	0	29
4-Methyl-2-pentanone			25.0	23.8		ug/L		95	63 - 137	1	26
Acetone			25.0	25.1		ug/L		100	49 - 150	0	24
Acrylonitrile			50.0	38.1		ug/L		76	50 - 145	9	33
Benzene			5.00	5.22		ug/L		104	80 - 120	3	22
Bromochloromethane			5.00	5.08		ug/L		102	79 - 121	3	20
Bromodichloromethane			5.00	5.44		ug/L		109	74 - 131	7	21
Bromoform			5.00	5.05		ug/L		101	48 - 127	0	23
Bromomethane			5.00	6.48		ug/L		130	51 - 148	5	35
Carbon disulfide			5.00	5.49		ug/L		110	54 - 142	5	34
Carbon tetrachloride			5.00	5.54		ug/L		111	66 - 130	5	24
Chlorobenzene			5.00	5.35		ug/L		107	74 - 123	5	21
Chloroethane			5.00	6.10		ug/L		122	54 - 140	5	33
Chloroform			5.00	5.14		ug/L		103	75 - 120	2	21
Chloromethane			5.00	5.37		ug/L		107	32 - 150	7	33
cis-1,2-Dichloroethene			5.00	5.07		ug/L		101	72 - 120	5	22
cis-1,3-Dichloropropene			5.00	4.88		ug/L		98	77 - 131	0	24
Dibromochloromethane			5.00	5.27		ug/L		105	62 - 141	4	22
Dibromomethane			5.00	5.34		ug/L		107	65 - 141	3	22
Ethylbenzene			5.00	5.37		ug/L		107	80 - 124	3	22
m,p-Xylene			5.00	5.22		ug/L		104	75 - 124	5	22
Methyl iodide			5.00	5.73		ug/L		115	60 - 128	5	39
o-Xylene			5.00	5.29		ug/L		106	71 - 124	1	23
Styrene			5.00	4.76		ug/L		95	74 - 127	1	22
Tetrachloroethene			5.00	5.55		ug/L		111	75 - 124	3	20
Toluene			5.00	5.14		ug/L		103	80 - 126	1	20
trans-1,2-Dichloroethene			5.00	5.14		ug/L		103	69 - 121	0	27
trans-1,3-Dichloropropene			5.00	4.59		ug/L		92	71 - 138	3	26
trans-1,4-Dichloro-2-butene			5.00	4.79		ug/L		96	20 - 150	5	35
Trichloroethene			5.00	5.57		ug/L		111	72 - 120	13	22
Trichlorofluoromethane			5.00	5.93		ug/L		119	60 - 132	5	32
Vinyl chloride			5.00	6.02		ug/L		120	41 - 150	4	32

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

Lab Sample ID: LCSD 580-389531/4
Matrix: Water
Analysis Batch: 389531

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 580-389593/6
Matrix: Water
Analysis Batch: 389593

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		0.30		ug/L			05/05/22 14:16	1
1,1,1-Trichloroethane	ND		0.20		ug/L			05/05/22 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			05/05/22 14:16	1
1,1,2-Trichloroethane	ND		0.20		ug/L			05/05/22 14:16	1
1,1-Dichloroethane	ND		0.20		ug/L			05/05/22 14:16	1
1,1-Dichloroethene	ND		0.20		ug/L			05/05/22 14:16	1
1,2,3-Trichloropropane	ND		0.20		ug/L			05/05/22 14:16	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			05/05/22 14:16	1
1,2-Dibromoethane	ND		0.10		ug/L			05/05/22 14:16	1
1,2-Dichlorobenzene	ND		0.30		ug/L			05/05/22 14:16	1
1,2-Dichloroethane	ND		0.20		ug/L			05/05/22 14:16	1
1,2-Dichloropropane	ND		0.20		ug/L			05/05/22 14:16	1
1,4-Dichlorobenzene	ND		0.30		ug/L			05/05/22 14:16	1
2-Butanone	ND		10		ug/L			05/05/22 14:16	1
2-Hexanone	ND		3.0		ug/L			05/05/22 14:16	1
4-Methyl-2-pentanone	ND		10		ug/L			05/05/22 14:16	1
Acetone	ND		10		ug/L			05/05/22 14:16	1
Acrylonitrile	ND		10		ug/L			05/05/22 14:16	1
Benzene	ND		0.20		ug/L			05/05/22 14:16	1
Bromochloromethane	ND		0.20		ug/L			05/05/22 14:16	1
Bromodichloromethane	ND		0.20		ug/L			05/05/22 14:16	1
Bromoform	ND		0.50		ug/L			05/05/22 14:16	1
Bromomethane	ND		0.50		ug/L			05/05/22 14:16	1
Carbon disulfide	ND		0.30		ug/L			05/05/22 14:16	1
Carbon tetrachloride	ND		0.20		ug/L			05/05/22 14:16	1
Chlorobenzene	ND		0.20		ug/L			05/05/22 14:16	1
Chloroethane	ND		0.50		ug/L			05/05/22 14:16	1
Chloroform	ND		0.20		ug/L			05/05/22 14:16	1
Chloromethane	ND		0.50		ug/L			05/05/22 14:16	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 14:16	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 14:16	1
Dibromochloromethane	ND		0.20		ug/L			05/05/22 14:16	1
Dibromomethane	ND		0.20		ug/L			05/05/22 14:16	1
Ethylbenzene	ND		0.20		ug/L			05/05/22 14:16	1
m,p-Xylene	ND		0.50		ug/L			05/05/22 14:16	1
Methyl iodide	ND		0.50		ug/L			05/05/22 14:16	1
Methylene Chloride	ND		5.0		ug/L			05/05/22 14:16	1
o-Xylene	ND		0.50		ug/L			05/05/22 14:16	1

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

Lab Sample ID: MB 580-389593/6
Matrix: Water
Analysis Batch: 389593

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			05/05/22 14:16	1
Tetrachloroethene	ND		0.50		ug/L			05/05/22 14:16	1
Toluene	ND		0.20		ug/L			05/05/22 14:16	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			05/05/22 14:16	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			05/05/22 14:16	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			05/05/22 14:16	1
Trichloroethene	ND		0.20		ug/L			05/05/22 14:16	1
Trichlorofluoromethane	ND		0.50		ug/L			05/05/22 14:16	1
Vinyl chloride	ND		0.020		ug/L			05/05/22 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*05/05/22 14:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/22 14:16*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*05/05/22 14:16*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/05/22 14:16*	*1*

Lab Sample ID: LCS 580-389593/3
Matrix: Water
Analysis Batch: 389593

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	4.78		ug/L		96	69 - 127
1,1,1-Trichloroethane	5.00	5.49		ug/L		110	70 - 121
1,1,2,2-Tetrachloroethane	5.00	4.93		ug/L		99	67 - 136
1,1,2-Trichloroethane	5.00	4.59		ug/L		92	73 - 127
1,1-Dichloroethane	5.00	5.17		ug/L		103	74 - 120
1,1-Dichloroethene	5.00	5.94		ug/L		119	60 - 129
1,2,3-Trichloropropane	5.00	5.58		ug/L		112	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.18		ug/L		104	55 - 135
1,2-Dibromoethane	5.00	5.26		ug/L		105	61 - 143
1,2-Dichlorobenzene	5.00	4.87		ug/L		97	72 - 129
1,2-Dichloroethane	5.00	4.91		ug/L		98	74 - 127
1,2-Dichloropropane	5.00	4.94		ug/L		99	69 - 130
1,4-Dichlorobenzene	5.00	5.03		ug/L		101	71 - 129
2-Butanone	25.0	27.9		ug/L		112	37 - 150
2-Hexanone	25.0	22.3		ug/L		89	56 - 150
4-Methyl-2-pentanone	25.0	23.1		ug/L		92	63 - 137
Acetone	25.0	28.8		ug/L		115	49 - 150
Acrylonitrile	50.0	37.3		ug/L		75	50 - 145
Benzene	5.00	5.04		ug/L		101	80 - 120
Bromochloromethane	5.00	5.47		ug/L		109	79 - 121
Bromodichloromethane	5.00	5.21		ug/L		104	74 - 131
Bromoform	5.00	4.73		ug/L		95	48 - 127
Bromomethane	5.00	6.50		ug/L		130	51 - 148
Carbon disulfide	5.00	5.60		ug/L		112	54 - 142
Carbon tetrachloride	5.00	5.55		ug/L		111	66 - 130
Chlorobenzene	5.00	4.96		ug/L		99	74 - 123
Chloroethane	5.00	6.18		ug/L		124	54 - 140

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

Lab Sample ID: LCS 580-389593/3
Matrix: Water
Analysis Batch: 389593

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	5.00	4.86		ug/L		97	75 - 120
Chloromethane	5.00	5.66		ug/L		113	32 - 150
cis-1,2-Dichloroethene	5.00	5.26		ug/L		105	72 - 120
cis-1,3-Dichloropropene	5.00	4.82		ug/L		96	77 - 131
Dibromochloromethane	5.00	5.10		ug/L		102	62 - 141
Dibromomethane	5.00	5.54		ug/L		111	65 - 141
Ethylbenzene	5.00	4.91		ug/L		98	80 - 124
m,p-Xylene	5.00	4.75		ug/L		95	75 - 124
Methyl iodide	5.00	5.98		ug/L		120	60 - 128
Methylene Chloride	5.00	3.87	J	ug/L		77	40 - 142
o-Xylene	5.00	4.79		ug/L		96	71 - 124
Styrene	5.00	4.41		ug/L		88	74 - 127
Tetrachloroethene	5.00	5.47		ug/L		109	75 - 124
Toluene	5.00	4.72		ug/L		94	80 - 126
trans-1,2-Dichloroethene	5.00	4.81		ug/L		96	69 - 121
trans-1,3-Dichloropropene	5.00	4.49		ug/L		90	71 - 138
trans-1,4-Dichloro-2-butene	5.00	4.18		ug/L		84	20 - 150
Trichloroethene	5.00	4.97		ug/L		99	72 - 120
Trichlorofluoromethane	5.00	5.49		ug/L		110	60 - 132
Vinyl chloride	5.00	5.96		ug/L		119	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-389593/4
Matrix: Water
Analysis Batch: 389593

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	4.81		ug/L		96	69 - 127	1	22
1,1,1-Trichloroethane	5.00	5.51		ug/L		110	70 - 121	0	24
1,1,2,2-Tetrachloroethane	5.00	4.97		ug/L		99	67 - 136	1	24
1,1,2-Trichloroethane	5.00	4.74		ug/L		95	73 - 127	3	22
1,1-Dichloroethane	5.00	5.36		ug/L		107	74 - 120	4	26
1,1-Dichloroethene	5.00	5.83		ug/L		117	60 - 129	2	29
1,2,3-Trichloropropane	5.00	5.42		ug/L		108	67 - 135	3	25
1,2-Dibromo-3-Chloropropane	5.00	5.24		ug/L		105	55 - 135	1	29
1,2-Dibromoethane	5.00	5.11		ug/L		102	61 - 143	3	22
1,2-Dichlorobenzene	5.00	4.87		ug/L		97	72 - 129	0	22
1,2-Dichloroethane	5.00	4.76		ug/L		95	74 - 127	3	21
1,2-Dichloropropane	5.00	5.03		ug/L		101	69 - 130	2	22
1,4-Dichlorobenzene	5.00	5.05		ug/L		101	71 - 129	0	22
2-Butanone	25.0	26.6		ug/L		106	37 - 150	5	35
2-Hexanone	25.0	21.7		ug/L		87	56 - 150	3	29
4-Methyl-2-pentanone	25.0	22.5		ug/L		90	63 - 137	3	26

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

Lab Sample ID: LCSD 580-389593/4
Matrix: Water
Analysis Batch: 389593

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	29.2		ug/L		117	49 - 150	1	24
Acrylonitrile	50.0	45.6		ug/L		91	50 - 145	20	33
Benzene	5.00	5.02		ug/L		100	80 - 120	0	22
Bromochloromethane	5.00	5.10		ug/L		102	79 - 121	7	20
Bromodichloromethane	5.00	5.01		ug/L		100	74 - 131	4	21
Bromoform	5.00	4.70		ug/L		94	48 - 127	1	23
Bromomethane	5.00	6.56		ug/L		131	51 - 148	1	35
Carbon disulfide	5.00	5.46		ug/L		109	54 - 142	3	34
Carbon tetrachloride	5.00	5.63		ug/L		113	66 - 130	1	24
Chlorobenzene	5.00	4.97		ug/L		99	74 - 123	0	21
Chloroethane	5.00	6.06		ug/L		121	54 - 140	2	33
Chloroform	5.00	5.14		ug/L		103	75 - 120	5	21
Chloromethane	5.00	5.73		ug/L		115	32 - 150	1	33
cis-1,2-Dichloroethene	5.00	5.40		ug/L		108	72 - 120	3	22
cis-1,3-Dichloropropene	5.00	4.72		ug/L		94	77 - 131	2	24
Dibromochloromethane	5.00	5.07		ug/L		101	62 - 141	1	22
Dibromomethane	5.00	5.75		ug/L		115	65 - 141	4	22
Ethylbenzene	5.00	4.85		ug/L		97	80 - 124	1	22
m,p-Xylene	5.00	4.62		ug/L		92	75 - 124	3	22
Methyl iodide	5.00	5.78		ug/L		116	60 - 128	3	39
Methylene Chloride	5.00	4.01	J	ug/L		80	40 - 142	4	25
o-Xylene	5.00	4.86		ug/L		97	71 - 124	2	23
Styrene	5.00	4.40		ug/L		88	74 - 127	0	22
Tetrachloroethene	5.00	5.27		ug/L		105	75 - 124	4	20
Toluene	5.00	4.76		ug/L		95	80 - 126	1	20
trans-1,2-Dichloroethene	5.00	4.99		ug/L		100	69 - 121	4	27
trans-1,3-Dichloropropene	5.00	4.32		ug/L		86	71 - 138	4	26
trans-1,4-Dichloro-2-butene	5.00	3.81		ug/L		76	20 - 150	9	35
Trichloroethene	5.00	5.24		ug/L		105	72 - 120	5	22
Trichlorofluoromethane	5.00	5.57		ug/L		111	60 - 132	1	32
Vinyl chloride	5.00	5.89		ug/L		118	41 - 150	1	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 580-389596/6
Matrix: Water
Analysis Batch: 389596

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			05/05/22 14:22	1
Vinyl acetate	ND		2.0		ug/L			05/05/22 14:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*05/05/22 14:22*	*1*

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

Lab Sample ID: MB 580-389596/6
Matrix: Water
Analysis Batch: 389596

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		05/05/22 14:22	1
Dibromofluoromethane (Surr)	105		80 - 120		05/05/22 14:22	1
Toluene-d8 (Surr)	102		80 - 120		05/05/22 14:22	1

Lab Sample ID: LCS 580-389596/3
Matrix: Water
Analysis Batch: 389596

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Chloride			5.00	5.23		ug/L		105	40 - 142		
Vinyl acetate			12.5	15.4		ug/L		123	38 - 150		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: LCSD 580-389596/4
Matrix: Water
Analysis Batch: 389596

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
Methylene Chloride			5.00	5.52		ug/L		110	40 - 142	5	25
Vinyl acetate			12.5	13.5		ug/L		108	38 - 150	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	116		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	107		80 - 120

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-389344/24-A
Matrix: Water
Analysis Batch: 389560

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		05/03/22 19:48	05/04/22 20:15	1
Iron	ND		0.30		mg/L		05/03/22 19:48	05/04/22 20:15	1
Magnesium	ND		0.50		mg/L		05/03/22 19:48	05/04/22 20:15	1
Manganese	ND		0.020		mg/L		05/03/22 19:48	05/04/22 20:15	1
Sodium	ND		0.50		mg/L		05/03/22 19:48	05/04/22 20:15	1
Potassium	ND		3.3		mg/L		05/03/22 19:48	05/04/22 20:15	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-389344/25-A
Matrix: Water
Analysis Batch: 389560

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			20.0	18.9		mg/L		95	80 - 120		
Iron			20.0	19.1		mg/L		96	80 - 120		
Magnesium			20.0	19.0		mg/L		95	80 - 120		
Manganese			1.00	1.04		mg/L		104	80 - 120		
Sodium			20.0	18.7		mg/L		93	80 - 120		
Potassium			20.0	19.8		mg/L		99	80 - 120		

Lab Sample ID: LCSD 580-389344/26-A
Matrix: Water
Analysis Batch: 389560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 389344

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium			20.0	18.9		mg/L		95	80 - 120	0	20
Iron			20.0	19.0		mg/L		95	80 - 120	0	20
Magnesium			20.0	19.0		mg/L		95	80 - 120	0	20
Manganese			1.00	1.04		mg/L		104	80 - 120	1	20
Sodium			20.0	18.6		mg/L		93	80 - 120	1	20
Potassium			20.0	19.7		mg/L		98	80 - 120	1	20

Lab Sample ID: 580-112965-1 MS
Matrix: Water
Analysis Batch: 389560

Client Sample ID: 0422-23
Prep Type: Dissolved
Prep Batch: 389344

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	170		20.0	179	4	mg/L		54	80 - 120		
Iron	ND		20.0	19.5		mg/L		98	80 - 120		
Magnesium	120		20.0	129	4	mg/L		68	80 - 120		
Manganese	0.050		1.00	1.07		mg/L		102	80 - 120		
Sodium	44		20.0	61.5		mg/L		89	80 - 120		
Potassium	8.8		20.0	28.9		mg/L		101	80 - 120		

Lab Sample ID: 580-112965-1 MSD
Matrix: Water
Analysis Batch: 389560

Client Sample ID: 0422-23
Prep Type: Dissolved
Prep Batch: 389344

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	170		20.0	178	4	mg/L		48	80 - 120	1	20
Iron	ND		20.0	19.8		mg/L		99	80 - 120	1	20
Magnesium	120		20.0	128	4	mg/L		62	80 - 120	1	20
Manganese	0.050		1.00	1.09		mg/L		104	80 - 120	1	20
Sodium	44		20.0	61.6		mg/L		90	80 - 120	0	20
Potassium	8.8		20.0	29.2		mg/L		102	80 - 120	1	20

Lab Sample ID: 580-112965-1 DU
Matrix: Water
Analysis Batch: 389560

Client Sample ID: 0422-23
Prep Type: Dissolved
Prep Batch: 389344

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	170		168		mg/L		0.6	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 580-112965-1 DU
Matrix: Water
Analysis Batch: 389560

Client Sample ID: 0422-23
Prep Type: Dissolved
Prep Batch: 389344

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	ND		ND		mg/L		NC	20
Magnesium	120		115		mg/L		0.8	20
Manganese	0.050		0.0526		mg/L		6	20
Sodium	44		43.1		mg/L		1	20
Potassium	8.8		9.00		mg/L		3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-389341/26-A
Matrix: Water
Analysis Batch: 389526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:01	05/04/22 16:42	1
Arsenic	ND		0.0010		mg/L		05/03/22 19:01	05/04/22 16:42	1
Barium	ND		0.0012		mg/L		05/03/22 19:01	05/04/22 16:42	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 16:42	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 16:42	1
Chromium	ND		0.00080		mg/L		05/03/22 19:01	05/04/22 16:42	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 16:42	1
Copper	ND		0.0020		mg/L		05/03/22 19:01	05/04/22 16:42	1
Lead	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 16:42	1
Nickel	ND		0.0030		mg/L		05/03/22 19:01	05/04/22 16:42	1
Selenium	ND		0.0080		mg/L		05/03/22 19:01	05/04/22 16:42	1
Silver	ND		0.00040		mg/L		05/03/22 19:01	05/04/22 16:42	1
Thallium	ND		0.0010		mg/L		05/03/22 19:01	05/04/22 16:42	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:01	05/04/22 16:42	1
Zinc	ND		0.0070		mg/L		05/03/22 19:01	05/04/22 16:42	1

Lab Sample ID: LCS 580-389341/27-A
Matrix: Water
Analysis Batch: 389526

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.03		mg/L		103	80 - 120
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Beryllium	1.00	0.880		mg/L		88	80 - 120
Cadmium	1.00	1.00		mg/L		100	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Cobalt	1.00	1.06		mg/L		106	80 - 120
Copper	1.00	1.03		mg/L		103	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	1.00	0.937		mg/L		94	80 - 120
Silver	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.12		mg/L		112	80 - 120
Vanadium	1.00	1.01		mg/L		101	80 - 120
Zinc	1.00	1.02		mg/L		102	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-389341/28-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 389526
Prep Batch: 389341

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony			1.00	1.04		mg/L		104	80 - 120	1	20
Arsenic			1.00	1.01		mg/L		101	80 - 120	0	20
Barium			1.00	1.06		mg/L		106	80 - 120	2	20
Beryllium			1.00	0.874		mg/L		87	80 - 120	1	20
Cadmium			1.00	1.02		mg/L		102	80 - 120	2	20
Chromium			1.00	1.02		mg/L		102	80 - 120	0	20
Cobalt			1.00	1.07		mg/L		107	80 - 120	1	20
Copper			1.00	1.04		mg/L		104	80 - 120	1	20
Lead			1.00	1.01		mg/L		101	80 - 120	1	20
Nickel			1.00	1.02		mg/L		102	80 - 120	1	20
Selenium			1.00	0.954		mg/L		95	80 - 120	2	20
Silver			1.00	1.01		mg/L		101	80 - 120	1	20
Thallium			1.00	1.14		mg/L		114	80 - 120	2	20
Vanadium			1.00	1.03		mg/L		103	80 - 120	1	20
Zinc			1.00	1.02		mg/L		102	80 - 120	0	20

Lab Sample ID: 580-112965-1 MS
Client Sample ID: 0422-23
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 389526
Prep Batch: 389341

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		1.00	1.01		mg/L		101	80 - 120
Arsenic	0.0046		1.00	1.02		mg/L		101	80 - 120
Barium	0.047		1.00	1.08		mg/L		103	80 - 120
Beryllium	ND		1.00	0.951		mg/L		95	80 - 120
Cadmium	ND		1.00	1.02		mg/L		102	80 - 120
Chromium	ND		1.00	1.06		mg/L		106	80 - 120
Cobalt	0.0010		1.00	1.05		mg/L		105	80 - 120
Copper	ND		1.00	1.07		mg/L		107	80 - 120
Lead	0.00079		1.00	1.02		mg/L		102	80 - 120
Nickel	0.0060		1.00	1.07		mg/L		107	80 - 120
Selenium	ND		1.00	1.06		mg/L		106	80 - 120
Silver	ND		1.00	1.04		mg/L		104	80 - 120
Thallium	ND		1.00	1.12		mg/L		112	80 - 120
Vanadium	0.0058		1.00	1.07		mg/L		107	80 - 120
Zinc	ND		1.00	1.08		mg/L		107	80 - 120

Lab Sample ID: 580-112965-1 MSD
Client Sample ID: 0422-23
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 389526
Prep Batch: 389341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1.00	0.980		mg/L		98	80 - 120	3	20
Arsenic	0.0046		1.00	0.995		mg/L		99	80 - 120	2	20
Barium	0.047		1.00	1.06		mg/L		101	80 - 120	2	20
Beryllium	ND		1.00	0.932		mg/L		93	80 - 120	2	20
Cadmium	ND		1.00	0.999		mg/L		100	80 - 120	2	20
Chromium	ND		1.00	1.01		mg/L		101	80 - 120	4	20
Cobalt	0.0010		1.00	1.04		mg/L		103	80 - 120	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-112965-1 MSD
Matrix: Water
Analysis Batch: 389526

Client Sample ID: 0422-23
Prep Type: Total Recoverable
Prep Batch: 389341

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	ND		1.00	1.02		mg/L		102	80 - 120	5	20
Lead	0.00079		1.00	1.00		mg/L		100	80 - 120	2	20
Nickel	0.0060		1.00	1.02		mg/L		102	80 - 120	5	20
Selenium	ND		1.00	0.979		mg/L		98	80 - 120	8	20
Silver	ND		1.00	1.02		mg/L		102	80 - 120	3	20
Thallium	ND		1.00	1.09		mg/L		109	80 - 120	3	20
Vanadium	0.0058		1.00	1.03		mg/L		102	80 - 120	4	20
Zinc	ND		1.00	1.03		mg/L		102	80 - 120	4	20

Lab Sample ID: MB 580-389343/21-A
Matrix: Water
Analysis Batch: 389526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 19:17	1
Arsenic	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 19:17	1
Barium	ND		0.0012		mg/L		05/03/22 19:46	05/04/22 19:17	1
Beryllium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:17	1
Cadmium	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:17	1
Chromium	ND		0.00080		mg/L		05/03/22 19:46	05/04/22 19:17	1
Cobalt	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:17	1
Copper	ND		0.0020		mg/L		05/03/22 19:46	05/04/22 19:17	1
Lead	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:17	1
Nickel	ND		0.0030		mg/L		05/03/22 19:46	05/04/22 19:17	1
Selenium	ND		0.0080		mg/L		05/03/22 19:46	05/04/22 19:17	1
Silver	ND		0.00040		mg/L		05/03/22 19:46	05/04/22 19:17	1
Thallium	ND		0.0010		mg/L		05/03/22 19:46	05/04/22 19:17	1
Vanadium	ND		0.0040		mg/L		05/03/22 19:46	05/04/22 19:17	1
Zinc	ND		0.0070		mg/L		05/03/22 19:46	05/04/22 19:17	1

Lab Sample ID: LCS 580-389343/22-A
Matrix: Water
Analysis Batch: 389526

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.989		mg/L		99	80 - 120
Arsenic	1.00	0.997		mg/L		100	80 - 120
Barium	1.00	0.998		mg/L		100	80 - 120
Beryllium	1.00	1.08		mg/L		108	80 - 120
Cadmium	1.00	0.990		mg/L		99	80 - 120
Chromium	1.00	1.06		mg/L		106	80 - 120
Cobalt	1.00	1.06		mg/L		106	80 - 120
Copper	1.00	1.09		mg/L		109	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Nickel	1.00	1.08		mg/L		108	80 - 120
Selenium	1.00	0.980		mg/L		98	80 - 120
Silver	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.15		mg/L		115	80 - 120
Vanadium	1.00	1.06		mg/L		106	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-389343/22-A
Matrix: Water
Analysis Batch: 389526

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			1.00	1.04		mg/L		104	80 - 120		

Lab Sample ID: LCSD 580-389343/23-A
Matrix: Water
Analysis Batch: 389526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony			1.00	0.980		mg/L		98	80 - 120	1	20
Arsenic			1.00	1.00		mg/L		100	80 - 120	1	20
Barium			1.00	0.991		mg/L		99	80 - 120	1	20
Beryllium			1.00	1.07		mg/L		107	80 - 120	0	20
Cadmium			1.00	0.987		mg/L		99	80 - 120	0	20
Chromium			1.00	1.07		mg/L		107	80 - 120	1	20
Cobalt			1.00	1.06		mg/L		106	80 - 120	0	20
Copper			1.00	1.11		mg/L		111	80 - 120	1	20
Lead			1.00	1.02		mg/L		102	80 - 120	1	20
Nickel			1.00	1.09		mg/L		109	80 - 120	1	20
Selenium			1.00	0.971		mg/L		97	80 - 120	1	20
Silver			1.00	1.01		mg/L		101	80 - 120	1	20
Thallium			1.00	1.14		mg/L		114	80 - 120	1	20
Vanadium			1.00	1.07		mg/L		107	80 - 120	1	20
Zinc			1.00	1.06		mg/L		106	80 - 120	2	20

Lab Sample ID: 580-112965-2 MS
Matrix: Water
Analysis Batch: 389526

Client Sample ID: 0422-12
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	ND		1.00	0.986		mg/L		99	80 - 120		
Arsenic	0.0075		1.00	1.02		mg/L		101	80 - 120		
Barium	0.041		1.00	1.05		mg/L		101	80 - 120		
Beryllium	ND		1.00	1.07		mg/L		107	80 - 120		
Cadmium	ND		1.00	1.01		mg/L		101	80 - 120		
Chromium	ND		1.00	1.05		mg/L		105	80 - 120		
Cobalt	ND		1.00	1.06		mg/L		106	80 - 120		
Copper	ND		1.00	1.08		mg/L		108	80 - 120		
Lead	ND		1.00	1.03		mg/L		103	80 - 120		
Nickel	ND		1.00	1.07		mg/L		107	80 - 120		
Selenium	ND		1.00	0.985		mg/L		99	80 - 120		
Silver	ND		1.00	1.05		mg/L		105	80 - 120		
Thallium	ND		1.00	1.13		mg/L		113	80 - 120		
Vanadium	ND		1.00	1.06		mg/L		106	80 - 120		
Zinc	ND		1.00	1.06		mg/L		106	80 - 120		

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-112965-2 MSD
Matrix: Water
Analysis Batch: 389526

Client Sample ID: 0422-12
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1.00	0.992		mg/L		99	80 - 120	1	20
Arsenic	0.0075		1.00	0.991		mg/L		98	80 - 120	3	20
Barium	0.041		1.00	1.05		mg/L		101	80 - 120	0	20
Beryllium	ND		1.00	1.06		mg/L		106	80 - 120	1	20
Cadmium	ND		1.00	1.01		mg/L		101	80 - 120	0	20
Chromium	ND		1.00	1.05		mg/L		105	80 - 120	0	20
Cobalt	ND		1.00	1.05		mg/L		105	80 - 120	1	20
Copper	ND		1.00	1.07		mg/L		107	80 - 120	1	20
Lead	ND		1.00	1.03		mg/L		103	80 - 120	0	20
Nickel	ND		1.00	1.06		mg/L		106	80 - 120	1	20
Selenium	ND		1.00	0.975		mg/L		97	80 - 120	1	20
Silver	ND		1.00	1.05		mg/L		105	80 - 120	1	20
Thallium	ND		1.00	1.13		mg/L		113	80 - 120	0	20
Vanadium	ND		1.00	1.07		mg/L		107	80 - 120	0	20
Zinc	ND		1.00	1.05		mg/L		105	80 - 120	1	20

Lab Sample ID: 580-112965-2 DU
Matrix: Water
Analysis Batch: 389526

Client Sample ID: 0422-12
Prep Type: Total Recoverable
Prep Batch: 389343

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND			ND		mg/L				NC	20
Arsenic	0.0075			0.00748		mg/L				0	20
Barium	0.041			0.0398		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: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-388696/15
Matrix: Water
Analysis Batch: 388696

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			04/22/22 22:08	1
Chloride	ND		1.5		mg/L			04/22/22 22:08	1
Sulfate	ND		1.5		mg/L			04/22/22 22:08	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 580-388696/3
Matrix: Water
Analysis Batch: 388696

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			04/25/22 20:41	1
Chloride	ND		1.5		mg/L			04/25/22 20:41	1
Sulfate	ND		1.5		mg/L			04/25/22 20:41	1

Lab Sample ID: LCS 580-388696/16
Matrix: Water
Analysis Batch: 388696

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	51.1		mg/L		102	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: LCS 580-388696/4
Matrix: Water
Analysis Batch: 388696

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	50.9		mg/L		102	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

Lab Sample ID: LCSD 580-388696/17
Matrix: Water
Analysis Batch: 388696

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	5.08		mg/L		102	90 - 110	1	15
Chloride	50.0	51.3		mg/L		103	90 - 110	0	15
Sulfate	50.0	51.0		mg/L		102	90 - 110	0	15

Lab Sample ID: LCSD 580-388696/5
Matrix: Water
Analysis Batch: 388696

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	4.83		mg/L		97	90 - 110	0	15
Chloride	50.0	50.7		mg/L		101	90 - 110	0	15
Sulfate	50.0	51.1		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-112965-10 MS
Matrix: Water
Analysis Batch: 388696

Client Sample ID: 0422-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	ND		5.00	5.24		mg/L		102	90 - 110
Chloride	30		50.0	77.9		mg/L		96	90 - 110
Sulfate	43		50.0	91.2		mg/L		97	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-112965-10 MSD
Matrix: Water
Analysis Batch: 388696

Client Sample ID: 0422-07
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	5.28		mg/L		103	90 - 110	1	15
Chloride	30		50.0	78.1		mg/L		96	90 - 110	0	15
Sulfate	43		50.0	91.2		mg/L		97	90 - 110	0	15

Lab Sample ID: MB 580-388697/3
Matrix: Water
Analysis Batch: 388697

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			04/22/22 22:08	1

Lab Sample ID: LCS 580-388697/4
Matrix: Water
Analysis Batch: 388697

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	9.35		mg/L		93	90 - 110

Lab Sample ID: LCSD 580-388697/5
Matrix: Water
Analysis Batch: 388697

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	10.0	9.36		mg/L		94	90 - 110	0	15

Lab Sample ID: 580-112965-10 MS
Matrix: Water
Analysis Batch: 388697

Client Sample ID: 0422-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	4.6	F1	10.0	12.8	F1	mg/L		82	90 - 110

Lab Sample ID: 580-112965-10 MSD
Matrix: Water
Analysis Batch: 388697

Client Sample ID: 0422-07
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	4.6	F1	10.0	12.8	F1	mg/L		82	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-389066/1-A
Matrix: Water
Analysis Batch: 389067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 389066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		04/30/22 20:39	04/30/22 23:30	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-389066/2-A
Matrix: Water
Analysis Batch: 389067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 389066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	2.07		mg/L		104	90 - 110

Lab Sample ID: MB 580-389478/1-A
Matrix: Water
Analysis Batch: 389487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 389478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		05/04/22 20:42	05/04/22 23:54	1

Lab Sample ID: LCS 580-389478/2-A
Matrix: Water
Analysis Batch: 389487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 389478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.94		mg/L		97	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-388867/2
Matrix: Water
Analysis Batch: 388867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.0		mg/L		98	85 - 115

Lab Sample ID: LCSD 580-388867/3
Matrix: Water
Analysis Batch: 388867

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
Alkalinity	100	102		mg/L		102	85 - 115	4	20

Lab Sample ID: LCS 580-389057/2
Matrix: Water
Analysis Batch: 389057

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.3		mg/L		98	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-388854/1
Matrix: Water
Analysis Batch: 388854

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			04/28/22 15:49	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-388854/2
Matrix: Water
Analysis Batch: 388854

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	1140		mg/L		114	80 - 120

Lab Sample ID: 580-112965-4 DU
Matrix: Water
Analysis Batch: 388854

Client Sample ID: 0422-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	610		663		mg/L		8	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-388997/3-A
Matrix: Water
Analysis Batch: 389020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 388997

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		04/29/22 16:37	04/29/22 20:36	1

Lab Sample ID: LCS 580-388997/4-A
Matrix: Water
Analysis Batch: 389020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	75.0	76.1		mg/L		101	80 - 120

Lab Sample ID: LCSD 580-388997/5-A
Matrix: Water
Analysis Batch: 389020

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 388997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	75.0	73.4		mg/L		98	80 - 120	4	20

Lab Sample ID: 580-112965-12 MS
Matrix: Water
Analysis Batch: 389020

Client Sample ID: 0422-02
Prep Type: Total/NA
Prep Batch: 388997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	ND		25.0	29.3		mg/L		117	75 - 125

Lab Sample ID: 580-112965-12 DU
Matrix: Water
Analysis Batch: 389020

Client Sample ID: 0422-02
Prep Type: Total/NA
Prep Batch: 388997

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-231963/3
Matrix: Water
Analysis Batch: 231963

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			05/04/22 22:39	1

Lab Sample ID: LCS 570-231963/4
Matrix: Water
Analysis Batch: 231963

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic			5.03	5.16		mg/L		102	85 - 115		

Lab Sample ID: LCSD 570-231963/5
Matrix: Water
Analysis Batch: 231963

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic			5.03	5.10		mg/L		101	85 - 115	1	20

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-23
Date Collected: 04/21/22 10:02
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 22:48	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 21:07	JSM	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 20:24	TMH	FGS SEA
Total Recoverable	Prep	3005A			389341	05/03/22 19:01	ABP	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 17:33	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/22/22 23:30	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/22/22 23:30	JHR	FGS SEA
Total/NA	Analysis	300.0		5	388696	04/25/22 21:40	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388867	04/28/22 22:31	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 03:20	UAPD	ECL 4

Client Sample ID: 0422-12
Date Collected: 04/21/22 11:25
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 23:12	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 21:32	JSM	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 20:54	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 19:21	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/22/22 23:41	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/22/22 23:41	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388867	04/28/22 22:31	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 03:44	UAPD	ECL 4

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-13
Lab Sample ID: 580-112965-3
Date Collected: 04/21/22 12:17
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/04/22 23:36	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 21:57	JSM	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 20:57	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:03	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/22/22 23:53	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/22/22 23:53	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388867	04/28/22 22:31	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 04:06	UAPD	ECL 4

Client Sample ID: 0422-25
Lab Sample ID: 580-112965-4
Date Collected: 04/21/22 13:00
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/05/22 00:00	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 22:22	JSM	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:01	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:07	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 00:05	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 00:05	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:46	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388867	04/28/22 22:31	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 05:26	UAPD	ECL 4

Client Sample ID: 0422-06
Lab Sample ID: 580-112965-5
Date Collected: 04/21/22 14:45
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/05/22 00:25	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-06
Lab Sample ID: 580-112965-5
Date Collected: 04/21/22 14:45
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389143	05/02/22 22:46	JSM	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:04	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:11	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 00:52	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 00:52	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:46	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388867	04/28/22 22:31	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 05:48	UAPD	ECL 4

Client Sample ID: 0422-01
Lab Sample ID: 580-112965-6
Date Collected: 04/21/22 15:30
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/05/22 00:49	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 23:10	JSM	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:07	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:15	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 01:04	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 01:04	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389066	04/30/22 20:39	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389067	04/30/22 23:30	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	388867	04/28/22 22:31	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 06:11	UAPD	ECL 4

Client Sample ID: 0422-22
Lab Sample ID: 580-112965-7
Date Collected: 04/21/22 16:20
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	RA	1	389531	05/05/22 01:13	JBT	FGS SEA
Total/NA	Analysis	8260D		1	389143	05/02/22 23:34	JSM	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-22
Lab Sample ID: 580-112965-7
Date Collected: 04/21/22 16:20
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:11	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:19	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 01:15	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 01:15	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 06:43	UAPD	ECL 4

Client Sample ID: 0422-14
Lab Sample ID: 580-112965-8
Date Collected: 04/21/22 10:05
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389531	05/05/22 01:38	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	5	389596	05/05/22 15:02	JBT	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:14	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:23	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 01:27	JHR	FGS SEA
Total/NA	Analysis	300.0		5	388697	04/23/22 01:39	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 07:03	UAPD	ECL 4

Client Sample ID: 0422-08
Lab Sample ID: 580-112965-9
Date Collected: 04/21/22 11:10
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389593	05/05/22 15:24	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	389596	05/05/22 15:26	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-08
Lab Sample ID: 580-112965-9
Date Collected: 04/21/22 11:10
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:17	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:27	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 01:50	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 01:50	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 07:26	UAPD	ECL 4

Client Sample ID: 0422-07
Lab Sample ID: 580-112965-10
Date Collected: 04/21/22 12:00
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389593	05/05/22 15:48	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	389596	05/05/22 15:51	JBT	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:21	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:30	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 02:02	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 02:02	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 07:49	UAPD	ECL 4

Client Sample ID: 0422-03
Lab Sample ID: 580-112965-11
Date Collected: 04/21/22 13:00
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389593	05/05/22 16:12	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	389596	05/05/22 16:15	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-03
Date Collected: 04/21/22 13:00
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:24	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:34	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 02:37	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 02:37	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 08:11	UAPD	ECL 4

Client Sample ID: 0422-02
Date Collected: 04/21/22 14:40
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389593	05/05/22 16:36	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	389596	05/05/22 16:40	JBT	FGS SEA
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:35	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 20:38	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 03:24	JHR	FGS SEA
Total/NA	Analysis	300.0		1	388697	04/23/22 03:24	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 08:34	UAPD	ECL 4

Client Sample ID: 0422-21
Date Collected: 04/21/22 16:05
Date Received: 04/22/22 11:15

Lab Sample ID: 580-112965-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389593	05/05/22 17:01	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	389596	05/05/22 17:05	JBT	FGS SEA

Lab Chronicle

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Client Sample ID: 0422-21
Lab Sample ID: 580-112965-13
Date Collected: 04/21/22 16:05
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			389344	05/03/22 19:48	TMH	FGS SEA
Dissolved	Analysis	6010D		1	389560	05/04/22 21:38	TMH	FGS SEA
Total Recoverable	Prep	3005A			389343	05/03/22 19:46	TMH	FGS SEA
Total Recoverable	Analysis	6020B		1	389526	05/04/22 21:01	FCW	FGS SEA
Total/NA	Analysis	300.0		1	388696	04/23/22 03:36	JHR	FGS SEA
Total/NA	Analysis	300.0		5	388697	04/23/22 03:47	JHR	FGS SEA
Total/NA	Prep	Distill/Ammonia			389478	05/04/22 20:42	MLT	FGS SEA
Total/NA	Analysis	350.1		1	389487	05/04/22 23:54	MLT	FGS SEA
Total/NA	Analysis	SM 2320B		1	389057	04/30/22 17:25	MLT	FGS SEA
Total/NA	Analysis	SM 2540C		1	388854	04/28/22 15:49	N1R	FGS SEA
Total/NA	Prep	SM 5220			388997	04/29/22 16:40	MLT	FGS SEA
Total/NA	Analysis	SM 5220D		1	389020	04/29/22 20:36	MLT	FGS SEA
Total/NA	Analysis	SM 5310D		1	231963	05/05/22 08:57	UAPD	ECL 4

Client Sample ID: Trip Blank
Lab Sample ID: 580-112965-14
Date Collected: 04/21/22 00:01
Matrix: Water
Date Received: 04/22/22 11:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	389593	05/05/22 17:25	JBT	FGS SEA
Total/NA	Analysis	8260D	RA	1	389596	05/05/22 17:30	JBT	FGS SEA

Laboratory References:
ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494
FGS SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-112965-1
Project/Site: Coupeville SW Facility GW Q2 2022

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
SM 2320B		Water	Alkalinity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3
SM 2540C		Water	Total Dissolved Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	12-01-22
California	State	2944	09-30-22
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-31-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q2 2022

Job ID: 580-112965-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-112965-1	0422-23	Water	04/21/22 10:02	04/22/22 11:15
580-112965-2	0422-12	Water	04/21/22 11:25	04/22/22 11:15
580-112965-3	0422-13	Water	04/21/22 12:17	04/22/22 11:15
580-112965-4	0422-25	Water	04/21/22 13:00	04/22/22 11:15
580-112965-5	0422-06	Water	04/21/22 14:45	04/22/22 11:15
580-112965-6	0422-01	Water	04/21/22 15:30	04/22/22 11:15
580-112965-7	0422-22	Water	04/21/22 16:20	04/22/22 11:15
580-112965-8	0422-14	Water	04/21/22 10:05	04/22/22 11:15
580-112965-9	0422-08	Water	04/21/22 11:10	04/22/22 11:15
580-112965-10	0422-07	Water	04/21/22 12:00	04/22/22 11:15
580-112965-11	0422-03	Water	04/21/22 13:00	04/22/22 11:15
580-112965-12	0422-02	Water	04/21/22 14:40	04/22/22 11:15
580-112965-13	0422-21	Water	04/21/22 16:05	04/22/22 11:15
580-112965-14	Trip Blank	Water	04/21/22 00:01	04/22/22 11:15

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

580-112965 Chain of Custody

urofins | Environment Testing America

Client Information	Sampler: SG + RM	Lab PM: Lewis, Nathan A	: No: -47983-15382.3
Client Contact: Mr. Sam Graber	Phone: 612 940 2980	E-Mail: Nathan.Lewis@et.eurofinsus.com	e: .ge 1 of 2
Company: SCS Engineers	PWSID:		Job #: 04722010.02
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard		
City: Bellevue	TAT Requested (days): 6		
State, Zip: WA, 98005-1877	Compliance Project: Δ Yes Δ No		
Phone: 425-766-3362(Tel)	PO #: Purchase Order not required		
Email: SGraber@scsengineers.com	WO #:		
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834		
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)	SM5310D - Total Organic Carbon	5220D - COD	350.1 - Nitrogen, Ammonia	2320B - Alkalinity, Carbonate, Bicarbonate	6020B_LL - 16 Total Metals	6010D - FF Metals (Ca,Fe,Mg,Mn) + K + Na	8260D_LL - Volatiles, custom list, low level	2540C - Solids, Total Dissolved (TDS)	300_48HR - Nitrate/Nitrite	300.0_28D - Chloride, Fluoride, Sulfate	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	S	S	N	D	D	A	N	N	N		
0422-23	4/21/22	1002	G	W	Y	N	X	X	X	X	X	X	X	X	X	X	10	* Use RL of 0.3 mg/L for Fe.
0422-12		1125																
0422-13		1217																
0422-25		1300																
0422-06		1445																
0422-01		1530																
0422-22		1620																
0422-14		1005																
0422-08		1110																
0422-07		1200																
0422-03	↓	1300	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

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
		4/22/22 1030	SCS	Sydney Lavloff	4/22 11:15	ETA
	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:

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SG & RM	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-47983-15382.3
Client Contact: Mr. Sam Graber	Phone: 612 940 2980	E-Mail: Nathan.Lewis@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: SCS Engineers	PWSID:			Job #: 04222010 02
Address: 2405 140th Avenue NE Suite 107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA, 98005-1877	Compliance Project: Δ Yes Δ No			
Phone: 425-766-3362(Tel)	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
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)	SM5310D - Total Organic Carbon	5220D - COD	350.1 - Nitrogen, Ammonia	2320B - Alkalinity, Carbonate, Bicarbonate	6020B_LL - 16 Total Metals	6010D - FF Metals (Ca,Fe,Mg,Mn) + K + Na	8260D_LL - Volatiles, custom list, low level	2540C - Solids, Total Dissolved (TDS)	300_48HR - Nitrate/Nitrite	300.0_28D - Chloride, Fluoride, Sulfate				Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	S	S	N	D	D	A	N	N	N					
0422-02	4/21/22	1440	G	W	Y	N	X	X	X	X	X	X	X	X	X	X				10	* use 0.3 mg/L
0422-21		1605	G		Y		X	X	X	X	X	X	X	X	X	X				10	RL for Fe
trip blank		-	-		N								X							2	

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
		4/22/22 1030	SCS	Sydney Lamott	4/22 11:15	ETA
	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:

1 →

Therm. ID: IR3 Cor: 4.6° Unc: 4.8°
Cooler Dsc: BB
Packing: BUB
Cust. Seal: Yes___No✓
Blue Ice, (We), Dry, None
FedEx:
UPS:
Lab Cour: ✓
Other:

2 →

Therm. ID: IR9 Cor: 3.2° Unc: 3.6°
Cooler Dsc: BB
Packing: BUB
Cust. Seal: Yes___No✓
Blue Ice, (We), Dry, None
FedEx:
UPS:
Lab Cour: ✓
Other:

3 →

Therm. ID: IR9 Cor: 4.8° Unc: 5.2°
Cooler Dsc: BB
Packing: BUB
Cust. Seal: Yes___No✓
Blue Ice, (We), Dry, None
FedEx:
UPS:
Lab Cour: ✓
Other:

4 →

Therm. ID: IR9 Cor: -0.3° Unc: -0.1°
Cooler Dsc: BR
Packing: BUB
Cust. Seal: Yes___No✓
Blue Ice, (We), Dry, None
FedEx:
UPS:
Lab Cour: ✓
Other:

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone. 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM. Dutton Tracy L	Carrier Tracking No(s):	COC No: 580-102904.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Tracy Dutton@et.eurofinsus com	State of Origin: Washington	Page: Page 1 of 2
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-112965-1
Address: 2841 Dow Avenue Suite 100	Due Date Requested 5/5/2022			
City: Tustin	TAT Requested (days)			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
Site:	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 - 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0422-23	4/21/22	10 02 Pacific		Water			X	1	
0422-12	4/21/22	11.25 Pacific		Water			X	1	
0422-13	4/21/22	12.17 Pacific		Water			X	1	
0422-25	4/21/22	13.00 Pacific		Water			X	1	
0422-06	4/21/22	14.45 Pacific		Water			X	1	
0422-01	4/21/22	15 30 Pacific		Water			X	1	
0422-22	4/21/22	16 20 Pacific		Water			X	1	
0422-14	4/21/22	10 05 Pacific		Water			X	1	
0422-08	4/21/22	11 10 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
Tom Blankenship	4/25/22		Olga Cinelos	4/26/22 1010	EEI
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. 1 0/2-7 IR-92

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424
Phone 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM. Dutton Tracy L	Carrier Tracking No(s):	COC No: 580-102904.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Tracy Dutton@et.eurofinsus.com	State of Origin. Washington	Page: Page 2 of 2
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-112965-1
Address: 2841 Dow Avenue Suite 100	Due Date Requested. 5/5/2022			
City: Tustin	TAT Requested (days)			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note.
			Preservation Code:						
0422-07	4/21/22	12.00 Pacific		Water			X	1	
0422-03	4/21/22	13.00 Pacific		Water			X	1	
0422-02	4/21/22	14.40 Pacific		Water			X	1	
0422-21	4/21/22	16 05 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
Tom Blankenship	4/25/22		Olga Oinclas	4/26/22 1010	EC
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. 1 0/2.7 IR-92

Ver 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-112965-1

Login Number: 112965
List Number: 1
Creator: Presley, Kim A

List Source: Eurofins 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.	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	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-112965-1

Login Number: 112965
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins Calscience
List Creation: 04/26/22 01:21 PM

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.	N/A	Not Present
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?	False	Received project as a subcontract.
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	

THIRD QTR. 2022 DATA VALIDATION REPORT – ISLAND CO. CSWF

Project Details

Project No.	04222010.04	**Site Name**	Island County Coupeville SWF
Data Validator	Jovany Estrada	**Data Level**	Level 2
Date	10/4/2022	**DV Tier**	Tier 1
QA Document	CSWF Groundwater Sampling, Analysis, and Quality Assurance Project Plan (Revised April 2018)		

Sample Login Summary

Sample Group	Sample Login Comments	Analytical Lab (Primary)
580-116817-1	No comments.	Eurofins TestAmerica, Seattle – Tacoma, WA
580-116780-1	No comments.	Eurofins TestAmerica, Seattle – Tacoma, WA

Analytical Summary

Sample Group	Analyses					
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC
580-116817-1	X	X	X	X	X	X
580-116780-1	X	X	X	X	X	X

Notes:

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
GC/MS VOA	Acceptable	See case narrative for additional details.
Metals	Acceptable	See case narrative for additional details.
General Chemistry	Acceptable	See case narrative for additional details.
VOA Prep	Acceptable	See case narrative for additional details.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes

Field Replicates	580-116780-1	N/A	See detailed results below.
Trip Blank	580-116817-1	N/A	See detailed results below.
Trip Blank	580-116780-1	N/A	See detailed results below.

Lab Quality Flags

Lab Qualifiers	Description	Lab Group
F1	MS and/or MSD Recovery is outside acceptance limits.	580-116817-1, 580-116780-1
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.	580-116780-1
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	580-116817-1, 580-116780-1

Field Duplicate Evaluation

Analyte	Units	N2D	N2D (Dup)	RPD (%)
Alkalinity	mg/L	470	460	2.15
Arsenic	mg/L	0.003	0.0031	3.28
Barium	mg/L	0.027	0.028	3.64
Bicarbonate	mg/L	470	460	2.15
Calcium	mg/L	110	110	0.00
Chloride	mg/L	72	72	0.00
Magnesium	mg/L	72	73	1.38
Nickel	mg/L	0.0047	0.0047	0.00
Nitrate/Nitrite, Total	mg/L	3.9	4	2.53
Potassium	mg/L	8.2	8.3	1.21
Sodium	mg/L	36	37	2.74
Sulfate	mg/L	73	73	0.00
Total Dissolved Solids	mg/L	710	710	0.00
Total Organic Carbon	mg/L	2	1.9	5.13
Trichlorofluoromethane	mg/L	0.85	0.73	15.19

* RPD based on result as compared to the Reporting Limit (RL) for a non-detection in the compared sample

U = Result was not detected at or above a concentration greater than the RL. Value provided is the RL for the given sample.

N/A = Not applicable. Both results compared were non-detect.

Additional Data Flags

Flag	Description
U	Not detected above the method reporting limit.

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

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ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-116780-1
Client Project/Site: Coupeville SW Facility GW Q3 2022

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Sam Graber

Kristine D. Allen

Authorized for release by:
8/23/2022 4:38:53 PM
Kristine Allen, Client Service Manager
(253)433-0390
Kristine.Allen@et.eurofinsus.com

Designee for

Katie Grant, Project Manager
(253)922-2310
Katie.Grant@et.eurofinsus.com

LINKS

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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: 580-116780-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-116780-1

Comments
No additional comments.

Receipt
The samples were received on 8/9/2022 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -0.2º C and 0.3º C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 580-400936 contained 1,2,3-Trichlorobenzene and Hexachlorobutadiene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, results are reported. .

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 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-400293 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-400295 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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 exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample ID: 0822-01
Date Collected: 08/08/22 10:48
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 11:23	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 11:23	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 11:23	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 11:23	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 11:23	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 11:23	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 11:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 11:23	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 11:23	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 11:23	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 11:23	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 11:23	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 11:23	1
2-Butanone	ND		10		ug/L			08/18/22 11:23	1
2-Hexanone	ND		3.0		ug/L			08/18/22 11:23	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 11:23	1
Acetone	ND		10		ug/L			08/18/22 11:23	1
Acrylonitrile	ND		10		ug/L			08/18/22 11:23	1
Benzene	ND		0.20		ug/L			08/18/22 11:23	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 11:23	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 11:23	1
Bromoform	ND		0.50		ug/L			08/18/22 11:23	1
Bromomethane	ND		0.50		ug/L			08/18/22 11:23	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 11:23	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 11:23	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 11:23	1
Chloroethane	ND		0.50		ug/L			08/18/22 11:23	1
Chloroform	ND		0.20		ug/L			08/18/22 11:23	1
Chloromethane	ND		0.50		ug/L			08/18/22 11:23	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 11:23	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 11:23	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 11:23	1
Dibromomethane	ND		0.20		ug/L			08/18/22 11:23	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 11:23	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 11:23	1
Methyl iodide	ND		0.50		ug/L			08/18/22 11:23	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 11:23	1
o-Xylene	ND		0.50		ug/L			08/18/22 11:23	1
Styrene	ND		1.0		ug/L			08/18/22 11:23	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 11:23	1
Toluene	ND		0.20		ug/L			08/18/22 11:23	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 11:23	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 11:23	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 11:23	1
Trichloroethene	ND		0.20		ug/L			08/18/22 11:23	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 11:23	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*08/18/22 11:23*	*1*

Client Sample ID: 0822-01
Date Collected: 08/08/22 10:48
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*08/18/22 11:23*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*08/18/22 11:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/18/22 11:23*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/21/22 18:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/21/22 18:11*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*08/21/22 18:11*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/21/22 18:11*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		0.50		mg/L		08/18/22 17:29	08/19/22 16:53	1
Calcium	**110**		0.50		mg/L		08/18/22 17:29	08/19/22 17:19	1
Iron	**0.84**		0.30		mg/L		08/18/22 17:29	08/19/22 16:53	1
Iron	**0.91**		0.30		mg/L		08/18/22 17:29	08/19/22 17:19	1
Magnesium	**59**		0.50		mg/L		08/18/22 17:29	08/19/22 16:53	1
Magnesium	**62**		0.50		mg/L		08/18/22 17:29	08/19/22 17:19	1
Manganese	**0.087**		0.020		mg/L		08/18/22 17:29	08/19/22 16:53	1
Manganese	**0.092**		0.020		mg/L		08/18/22 17:29	08/19/22 17:19	1
Potassium	**7.6**		3.3		mg/L		08/18/22 17:29	08/19/22 16:53	1
Potassium	**7.9**		3.3		mg/L		08/18/22 17:29	08/19/22 17:19	1
Sodium	**27**		0.50		mg/L		08/18/22 17:29	08/19/22 16:53	1
Sodium	**29**		0.50		mg/L		08/18/22 17:29	08/19/22 17:19	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 12:37	1
Arsenic	**0.0064**		0.0010		mg/L		08/18/22 17:29	08/19/22 12:37	1
Barium	**0.046**		0.0012		mg/L		08/18/22 17:29	08/19/22 12:37	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:37	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:37	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 12:37	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:37	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 12:37	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:37	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 12:37	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 12:37	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:37	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 12:37	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 12:37	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 01:45	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-01
Date Collected: 08/08/22 10:48
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-1
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.40		mg/L			08/10/22 01:45	1
Chloride	**56**		1.5		mg/L			08/10/22 01:45	1
Sulfate	**47**		1.5		mg/L			08/10/22 01:45	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**1.3**		0.50		mg/L			08/19/22 04:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**430**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**430**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**620**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-02
Date Collected: 08/08/22 11:51
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 11:47	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 11:47	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 11:47	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 11:47	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 11:47	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 11:47	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 11:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 11:47	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 11:47	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 11:47	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 11:47	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 11:47	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 11:47	1
2-Butanone	ND		10		ug/L			08/18/22 11:47	1
2-Hexanone	ND		3.0		ug/L			08/18/22 11:47	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 11:47	1
Acetone	ND		10		ug/L			08/18/22 11:47	1
Acrylonitrile	ND		10		ug/L			08/18/22 11:47	1
Benzene	ND		0.20		ug/L			08/18/22 11:47	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 11:47	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 11:47	1
Bromoform	ND		0.50		ug/L			08/18/22 11:47	1
Bromomethane	ND		0.50		ug/L			08/18/22 11:47	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 11:47	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 11:47	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 11:47	1
Chloroethane	ND		0.50		ug/L			08/18/22 11:47	1
Chloroform	ND		0.20		ug/L			08/18/22 11:47	1
Chloromethane	ND		0.50		ug/L			08/18/22 11:47	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 11:47	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 11:47	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 11:47	1
Dibromomethane	ND		0.20		ug/L			08/18/22 11:47	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 11:47	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 11:47	1
Methyl iodide	ND		0.50		ug/L			08/18/22 11:47	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 11:47	1
o-Xylene	ND		0.50		ug/L			08/18/22 11:47	1
Styrene	ND		1.0		ug/L			08/18/22 11:47	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 11:47	1
Toluene	ND		0.20		ug/L			08/18/22 11:47	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 11:47	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 11:47	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 11:47	1
Trichloroethene	ND		0.20		ug/L			08/18/22 11:47	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 11:47	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*08/18/22 11:47*	*1*

Client Sample ID: 0822-02
Date Collected: 08/08/22 11:51
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*08/18/22 11:47*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/18/22 11:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/18/22 11:47*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*08/21/22 18:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/21/22 18:35*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*		*08/21/22 18:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 18:35*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**31**		0.50		mg/L		08/18/22 17:29	08/19/22 17:22	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 17:22	1
Magnesium	**35**		0.50		mg/L		08/18/22 17:29	08/19/22 17:22	1
Manganese	**0.033**		0.020		mg/L		08/18/22 17:29	08/19/22 17:22	1
Potassium	**15**		3.3		mg/L		08/18/22 17:29	08/19/22 17:22	1
Sodium	**14**		0.50		mg/L		08/18/22 17:29	08/19/22 17:22	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:16	1
Arsenic	**0.021**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:16	1
Barium	**0.025**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:16	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:16	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:16	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:16	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:16	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 13:16	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:16	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 13:16	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:16	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:16	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:16	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:16	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 01:57	1
Nitrate Nitrite as N	ND		0.40		mg/L			08/10/22 01:57	1
Chloride	**40**		1.5		mg/L			08/10/22 01:57	1
Sulfate	**19**		1.5		mg/L			08/10/22 01:57	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**1.2**		0.50		mg/L			08/19/22 04:32	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-02
Lab Sample ID: 580-116780-2
Date Collected: 08/08/22 11:51
Matrix: Water
Date Received: 08/09/22 14:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**190**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**190**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**310**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-03
Date Collected: 08/08/22 13:05
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 12:11	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 12:11	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 12:11	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 12:11	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 12:11	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 12:11	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 12:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 12:11	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 12:11	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 12:11	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 12:11	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 12:11	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 12:11	1
2-Butanone	ND		10		ug/L			08/18/22 12:11	1
2-Hexanone	ND		3.0		ug/L			08/18/22 12:11	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 12:11	1
Acetone	ND		10		ug/L			08/18/22 12:11	1
Acrylonitrile	ND		10		ug/L			08/18/22 12:11	1
Benzene	ND		0.20		ug/L			08/18/22 12:11	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 12:11	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 12:11	1
Bromoform	ND		0.50		ug/L			08/18/22 12:11	1
Bromomethane	ND		0.50		ug/L			08/18/22 12:11	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 12:11	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 12:11	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 12:11	1
Chloroethane	ND		0.50		ug/L			08/18/22 12:11	1
Chloroform	ND		0.20		ug/L			08/18/22 12:11	1
Chloromethane	ND		0.50		ug/L			08/18/22 12:11	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 12:11	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 12:11	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 12:11	1
Dibromomethane	ND		0.20		ug/L			08/18/22 12:11	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 12:11	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 12:11	1
Methyl iodide	ND		0.50		ug/L			08/18/22 12:11	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 12:11	1
o-Xylene	ND		0.50		ug/L			08/18/22 12:11	1
Styrene	ND		1.0		ug/L			08/18/22 12:11	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 12:11	1
Toluene	ND		0.20		ug/L			08/18/22 12:11	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 12:11	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 12:11	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 12:11	1
Trichloroethene	ND		0.20		ug/L			08/18/22 12:11	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 12:11	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/18/22 12:11*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-03
Date Collected: 08/08/22 13:05
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-3
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/18/22 12:11*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*08/18/22 12:11*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/18/22 12:11*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*08/21/22 19:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/21/22 19:00*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*08/21/22 19:00*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/21/22 19:00*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-04
Date Collected: 08/08/22 13:50
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-4
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 12:36	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 12:36	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 12:36	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 12:36	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 12:36	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 12:36	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 12:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 12:36	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 12:36	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 12:36	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 12:36	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 12:36	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 12:36	1
2-Butanone	ND		10		ug/L			08/18/22 12:36	1
2-Hexanone	ND		3.0		ug/L			08/18/22 12:36	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 12:36	1
Acetone	ND		10		ug/L			08/18/22 12:36	1
Acrylonitrile	ND		10		ug/L			08/18/22 12:36	1
Benzene	ND		0.20		ug/L			08/18/22 12:36	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 12:36	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 12:36	1
Bromoform	ND		0.50		ug/L			08/18/22 12:36	1
Bromomethane	ND		0.50		ug/L			08/18/22 12:36	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 12:36	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 12:36	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 12:36	1
Chloroethane	ND		0.50		ug/L			08/18/22 12:36	1
Chloroform	ND		0.20		ug/L			08/18/22 12:36	1
Chloromethane	ND		0.50		ug/L			08/18/22 12:36	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 12:36	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 12:36	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 12:36	1
Dibromomethane	ND		0.20		ug/L			08/18/22 12:36	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 12:36	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 12:36	1
Methyl iodide	ND		0.50		ug/L			08/18/22 12:36	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 12:36	1
o-Xylene	ND		0.50		ug/L			08/18/22 12:36	1
Styrene	ND		1.0		ug/L			08/18/22 12:36	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 12:36	1
Toluene	ND		0.20		ug/L			08/18/22 12:36	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 12:36	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 12:36	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 12:36	1
Trichloroethene	ND		0.20		ug/L			08/18/22 12:36	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 12:36	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*08/18/22 12:36*	*1*

Client Sample ID: 0822-04

Date Collected: 08/08/22 13:50
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-4

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/18/22 12:36*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/18/22 12:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/18/22 12:36*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*		*08/21/22 19:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/21/22 19:25*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*08/21/22 19:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/21/22 19:25*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190**		0.50		mg/L		08/18/22 17:29	08/19/22 17:26	1
Iron	**2.4**		0.30		mg/L		08/18/22 17:29	08/19/22 17:26	1
Magnesium	**88**		0.50		mg/L		08/18/22 17:29	08/19/22 17:26	1
Manganese	**0.30**		0.020		mg/L		08/18/22 17:29	08/19/22 17:26	1
Potassium	**8.9**		3.3		mg/L		08/18/22 17:29	08/19/22 17:26	1
Sodium	**34**		0.50		mg/L		08/18/22 17:29	08/19/22 17:26	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:19	1
Arsenic	**0.0064**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:19	1
Barium	**0.077**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:19	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:19	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:19	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:19	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:19	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 13:19	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:19	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 13:19	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:19	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:19	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:19	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:19	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 02:08	1
Nitrate Nitrite as N	ND		0.40		mg/L			08/10/22 02:08	1
Chloride	**24**		1.5		mg/L			08/10/22 02:08	1
Sulfate	**33**		1.5		mg/L			08/10/22 02:08	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**1.7**		0.50		mg/L			08/19/22 04:55	1

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-04
Lab Sample ID: 580-116780-4
Date Collected: 08/08/22 13:50
Matrix: Water
Date Received: 08/09/22 14:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**730**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**730**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**870**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-05
Date Collected: 08/08/22 15:00
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 13:01	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 13:01	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 13:01	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 13:01	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 13:01	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 13:01	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 13:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 13:01	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 13:01	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 13:01	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 13:01	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 13:01	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 13:01	1
2-Butanone	ND		10		ug/L			08/18/22 13:01	1
2-Hexanone	ND		3.0		ug/L			08/18/22 13:01	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 13:01	1
Acetone	ND		10		ug/L			08/18/22 13:01	1
Acrylonitrile	ND		10		ug/L			08/18/22 13:01	1
Benzene	ND		0.20		ug/L			08/18/22 13:01	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 13:01	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 13:01	1
Bromoform	ND		0.50		ug/L			08/18/22 13:01	1
Bromomethane	ND		0.50		ug/L			08/18/22 13:01	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 13:01	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 13:01	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 13:01	1
Chloroethane	ND		0.50		ug/L			08/18/22 13:01	1
Chloroform	ND		0.20		ug/L			08/18/22 13:01	1
Chloromethane	ND		0.50		ug/L			08/18/22 13:01	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 13:01	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 13:01	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 13:01	1
Dibromomethane	ND		0.20		ug/L			08/18/22 13:01	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 13:01	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 13:01	1
Methyl iodide	ND		0.50		ug/L			08/18/22 13:01	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 13:01	1
o-Xylene	ND		0.50		ug/L			08/18/22 13:01	1
Styrene	ND		1.0		ug/L			08/18/22 13:01	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 13:01	1
Toluene	ND		0.20		ug/L			08/18/22 13:01	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 13:01	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 13:01	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 13:01	1
Trichloroethene	ND		0.20		ug/L			08/18/22 13:01	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 13:01	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/18/22 13:01*	*1*

Client Sample ID: 0822-05
Date Collected: 08/08/22 15:00
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*08/18/22 13:01*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/18/22 13:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/18/22 13:01*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*08/21/22 19:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/21/22 19:49*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*08/21/22 19:49*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/21/22 19:49*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**51**		0.50		mg/L		08/18/22 17:29	08/19/22 17:29	1
Iron	**1.3**		0.30		mg/L		08/18/22 17:29	08/19/22 17:29	1
Magnesium	**28**		0.50		mg/L		08/18/22 17:29	08/19/22 17:29	1
Manganese	**0.31**		0.020		mg/L		08/18/22 17:29	08/19/22 17:29	1
Potassium	**5.3**		3.3		mg/L		08/18/22 17:29	08/19/22 17:29	1
Sodium	**21**		0.50		mg/L		08/18/22 17:29	08/19/22 17:29	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:23	1
Arsenic	**0.0049**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:23	1
Barium	**0.065**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:23	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:23	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:23	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:23	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:23	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 13:23	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:23	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 13:23	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:23	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:23	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:23	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:23	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 02:20	1
Nitrate Nitrite as N	ND		0.40		mg/L			08/10/22 02:20	1
Chloride	**12**		1.5		mg/L			08/10/22 02:20	1
Sulfate	**25**		1.5		mg/L			08/10/22 02:20	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**0.77**		0.50		mg/L			08/19/22 05:18	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-05
Lab Sample ID: 580-116780-5
Date Collected: 08/08/22 15:00
Matrix: Water
Date Received: 08/09/22 14:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**250**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**250**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**330**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-06
Date Collected: 08/08/22 16:38
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-6
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 13:25	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 13:25	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 13:25	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 13:25	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 13:25	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 13:25	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 13:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 13:25	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 13:25	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 13:25	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 13:25	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 13:25	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 13:25	1
2-Butanone	ND		10		ug/L			08/18/22 13:25	1
2-Hexanone	ND		3.0		ug/L			08/18/22 13:25	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 13:25	1
Acetone	ND		10		ug/L			08/18/22 13:25	1
Acrylonitrile	ND		10		ug/L			08/18/22 13:25	1
Benzene	ND		0.20		ug/L			08/18/22 13:25	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 13:25	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 13:25	1
Bromoform	ND		0.50		ug/L			08/18/22 13:25	1
Bromomethane	ND		0.50		ug/L			08/18/22 13:25	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 13:25	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 13:25	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 13:25	1
Chloroethane	ND		0.50		ug/L			08/18/22 13:25	1
Chloroform	ND		0.20		ug/L			08/18/22 13:25	1
Chloromethane	ND		0.50		ug/L			08/18/22 13:25	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 13:25	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 13:25	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 13:25	1
Dibromomethane	ND		0.20		ug/L			08/18/22 13:25	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 13:25	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 13:25	1
Methyl iodide	ND		0.50		ug/L			08/18/22 13:25	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 13:25	1
o-Xylene	ND		0.50		ug/L			08/18/22 13:25	1
Styrene	ND		1.0		ug/L			08/18/22 13:25	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 13:25	1
Toluene	ND		0.20		ug/L			08/18/22 13:25	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 13:25	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 13:25	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 13:25	1
Trichloroethene	ND		0.20		ug/L			08/18/22 13:25	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 13:25	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/18/22 13:25*	*1*

Client Sample ID: 0822-06

Date Collected: 08/08/22 16:38
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-6

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*08/18/22 13:25*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/18/22 13:25*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/18/22 13:25*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*08/21/22 20:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*08/21/22 20:14*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*08/21/22 20:14*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/21/22 20:14*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69**		0.50		mg/L		08/18/22 17:29	08/19/22 17:32	1
Iron	**1.8**		0.30		mg/L		08/18/22 17:29	08/19/22 17:32	1
Magnesium	**36**		0.50		mg/L		08/18/22 17:29	08/19/22 17:32	1
Manganese	**0.58**		0.020		mg/L		08/18/22 17:29	08/19/22 17:32	1
Potassium	**6.2**		3.3		mg/L		08/18/22 17:29	08/19/22 17:32	1
Sodium	**31**		0.50		mg/L		08/18/22 17:29	08/19/22 17:32	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:26	1
Arsenic	**0.0018**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:26	1
Barium	**0.076**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:26	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:26	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:26	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:26	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:26	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 13:26	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:26	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 13:26	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:26	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:26	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:26	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:26	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 02:32	1
Nitrate Nitrite as N	ND		0.40		mg/L			08/10/22 02:32	1
Chloride	**16**		1.5		mg/L			08/10/22 02:32	1
Sulfate	**28**		1.5		mg/L			08/10/22 02:32	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**1.3**		0.50		mg/L			08/19/22 05:41	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-06
Lab Sample ID: 580-116780-6
Date Collected: 08/08/22 16:38
Matrix: Water
Date Received: 08/09/22 14:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**330**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**330**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**450**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-07
Date Collected: 08/08/22 17:45
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 13:50	1
1,1,1-Trichloroethane	**0.49**		0.20		ug/L			08/18/22 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 13:50	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 13:50	1
1,1-Dichloroethane	**0.21**		0.20		ug/L			08/18/22 13:50	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 13:50	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 13:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 13:50	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 13:50	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 13:50	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 13:50	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 13:50	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 13:50	1
2-Butanone	ND		10		ug/L			08/18/22 13:50	1
2-Hexanone	ND		3.0		ug/L			08/18/22 13:50	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 13:50	1
Acetone	ND		10		ug/L			08/18/22 13:50	1
Acrylonitrile	ND		10		ug/L			08/18/22 13:50	1
Benzene	ND		0.20		ug/L			08/18/22 13:50	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 13:50	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 13:50	1
Bromoform	ND		0.50		ug/L			08/18/22 13:50	1
Bromomethane	ND		0.50		ug/L			08/18/22 13:50	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 13:50	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 13:50	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 13:50	1
Chloroethane	ND		0.50		ug/L			08/18/22 13:50	1
Chloroform	ND		0.20		ug/L			08/18/22 13:50	1
Chloromethane	ND		0.50		ug/L			08/18/22 13:50	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 13:50	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 13:50	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 13:50	1
Dibromomethane	ND		0.20		ug/L			08/18/22 13:50	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 13:50	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 13:50	1
Methyl iodide	ND		0.50		ug/L			08/18/22 13:50	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 13:50	1
o-Xylene	ND		0.50		ug/L			08/18/22 13:50	1
Styrene	ND		1.0		ug/L			08/18/22 13:50	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 13:50	1
Toluene	ND		0.20		ug/L			08/18/22 13:50	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 13:50	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 13:50	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 13:50	1
Trichloroethene	ND		0.20		ug/L			08/18/22 13:50	1
Trichlorofluoromethane	**3.8**		0.50		ug/L			08/18/22 13:50	1
Vinyl chloride	**16**		0.020		ug/L			08/18/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*08/18/22 13:50*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-07
Date Collected: 08/08/22 17:45
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*08/18/22 13:50*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*08/18/22 13:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/18/22 13:50*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*08/21/22 20:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/21/22 20:39*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*08/21/22 20:39*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/21/22 20:39*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 580-116780-8

Date Collected: 08/08/22 00:01

Matrix: Water

Date Received: 08/09/22 14:30

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 10:34	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 10:34	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 10:34	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 10:34	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 10:34	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 10:34	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 10:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 10:34	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 10:34	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 10:34	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 10:34	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 10:34	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 10:34	1
2-Butanone	ND		10		ug/L			08/18/22 10:34	1
2-Hexanone	ND		3.0		ug/L			08/18/22 10:34	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 10:34	1
Acetone	ND		10		ug/L			08/18/22 10:34	1
Acrylonitrile	ND		10		ug/L			08/18/22 10:34	1
Benzene	ND		0.20		ug/L			08/18/22 10:34	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 10:34	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 10:34	1
Bromoform	ND		0.50		ug/L			08/18/22 10:34	1
Bromomethane	ND		0.50		ug/L			08/18/22 10:34	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 10:34	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 10:34	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 10:34	1
Chloroethane	ND		0.50		ug/L			08/18/22 10:34	1
Chloroform	ND		0.20		ug/L			08/18/22 10:34	1
Chloromethane	ND		0.50		ug/L			08/18/22 10:34	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 10:34	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 10:34	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 10:34	1
Dibromomethane	ND		0.20		ug/L			08/18/22 10:34	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 10:34	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 10:34	1
Methyl iodide	ND		0.50		ug/L			08/18/22 10:34	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 10:34	1
o-Xylene	ND		0.50		ug/L			08/18/22 10:34	1
Styrene	ND		1.0		ug/L			08/18/22 10:34	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 10:34	1
Toluene	ND		0.20		ug/L			08/18/22 10:34	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 10:34	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 10:34	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 10:34	1
Trichloroethene	ND		0.20		ug/L			08/18/22 10:34	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 10:34	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*08/18/22 10:34*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: TRIP BLANK

Date Collected: 08/08/22 00:01
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-8

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*08/18/22 10:34*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/18/22 10:34*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/18/22 10:34*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/21/22 17:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/21/22 17:22*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*08/21/22 17:22*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 17:22*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Client Sample ID: 0822-08
Date Collected: 08/09/22 09:25
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 14:14	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 14:14	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 14:14	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 14:14	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 14:14	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 14:14	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 14:14	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 14:14	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 14:14	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 14:14	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 14:14	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 14:14	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 14:14	1
2-Butanone	ND		10		ug/L			08/18/22 14:14	1
2-Hexanone	ND		3.0		ug/L			08/18/22 14:14	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 14:14	1
Acetone	ND		10		ug/L			08/18/22 14:14	1
Acrylonitrile	ND		10		ug/L			08/18/22 14:14	1
Benzene	ND		0.20		ug/L			08/18/22 14:14	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 14:14	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 14:14	1
Bromoform	ND		0.50		ug/L			08/18/22 14:14	1
Bromomethane	ND		0.50		ug/L			08/18/22 14:14	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 14:14	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 14:14	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 14:14	1
Chloroethane	ND		0.50		ug/L			08/18/22 14:14	1
Chloroform	ND		0.20		ug/L			08/18/22 14:14	1
Chloromethane	ND		0.50		ug/L			08/18/22 14:14	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 14:14	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 14:14	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 14:14	1
Dibromomethane	ND		0.20		ug/L			08/18/22 14:14	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 14:14	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 14:14	1
Methyl iodide	ND		0.50		ug/L			08/18/22 14:14	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 14:14	1
o-Xylene	ND		0.50		ug/L			08/18/22 14:14	1
Styrene	ND		1.0		ug/L			08/18/22 14:14	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 14:14	1
Toluene	ND		0.20		ug/L			08/18/22 14:14	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 14:14	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 14:14	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 14:14	1
Trichloroethene	ND		0.20		ug/L			08/18/22 14:14	1
Trichlorofluoromethane	**0.85**		0.50		ug/L			08/18/22 14:14	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/18/22 14:14*	*1*

Client Sample ID: 0822-08
Date Collected: 08/09/22 09:25
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*08/18/22 14:14*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*08/18/22 14:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/18/22 14:14*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*08/21/22 21:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/21/22 21:04*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*08/21/22 21:04*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/21/22 21:04*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		08/18/22 17:29	08/19/22 17:36	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 17:36	1
Magnesium	**72**		0.50		mg/L		08/18/22 17:29	08/19/22 17:36	1
Manganese	ND		0.020		mg/L		08/18/22 17:29	08/19/22 17:36	1
Potassium	**8.2**		3.3		mg/L		08/18/22 17:29	08/19/22 17:36	1
Sodium	**36**		0.50		mg/L		08/18/22 17:29	08/19/22 17:36	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:30	1
Arsenic	**0.0030**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:30	1
Barium	**0.027**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:30	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:30	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:30	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:30	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:30	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 13:30	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:30	1
Nickel	**0.0047**		0.0030		mg/L		08/18/22 17:29	08/19/22 13:30	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:30	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:30	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:30	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:30	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 02:44	1
Nitrate Nitrite as N	**3.9**		0.40		mg/L			08/10/22 02:44	1
Chloride	**72**		1.5		mg/L			08/10/22 02:44	1
Sulfate	**73**		1.5		mg/L			08/10/22 02:44	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**2.0**		0.50		mg/L			08/19/22 06:04	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-08
Lab Sample ID: 580-116780-9
Date Collected: 08/09/22 09:25
Matrix: Water
Date Received: 08/09/22 14:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**470**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**470**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**710**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client Sample ID: 0822-09
Date Collected: 08/09/22 09:45
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 14:39	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 14:39	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 14:39	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 14:39	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 14:39	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 14:39	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 14:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 14:39	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 14:39	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 14:39	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 14:39	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 14:39	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 14:39	1
2-Butanone	ND		10		ug/L			08/18/22 14:39	1
2-Hexanone	ND		3.0		ug/L			08/18/22 14:39	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 14:39	1
Acetone	ND		10		ug/L			08/18/22 14:39	1
Acrylonitrile	ND		10		ug/L			08/18/22 14:39	1
Benzene	ND		0.20		ug/L			08/18/22 14:39	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 14:39	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 14:39	1
Bromoform	ND		0.50		ug/L			08/18/22 14:39	1
Bromomethane	ND		0.50		ug/L			08/18/22 14:39	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 14:39	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 14:39	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 14:39	1
Chloroethane	ND		0.50		ug/L			08/18/22 14:39	1
Chloroform	ND		0.20		ug/L			08/18/22 14:39	1
Chloromethane	ND		0.50		ug/L			08/18/22 14:39	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 14:39	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 14:39	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 14:39	1
Dibromomethane	ND		0.20		ug/L			08/18/22 14:39	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 14:39	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 14:39	1
Methyl iodide	ND		0.50		ug/L			08/18/22 14:39	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 14:39	1
o-Xylene	ND		0.50		ug/L			08/18/22 14:39	1
Styrene	ND		1.0		ug/L			08/18/22 14:39	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 14:39	1
Toluene	ND		0.20		ug/L			08/18/22 14:39	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 14:39	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 14:39	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 14:39	1
Trichloroethene	ND		0.20		ug/L			08/18/22 14:39	1
Trichlorofluoromethane	**0.73**		0.50		ug/L			08/18/22 14:39	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/18/22 14:39*	*1*

Client Sample ID: 0822-09
Date Collected: 08/09/22 09:45
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-10
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*08/18/22 14:39*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*08/18/22 14:39*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/18/22 14:39*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*		*08/21/22 21:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/21/22 21:29*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*08/21/22 21:29*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/21/22 21:29*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		08/18/22 17:29	08/19/22 17:39	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 17:39	1
Magnesium	**73**		0.50		mg/L		08/18/22 17:29	08/19/22 17:39	1
Manganese	ND		0.020		mg/L		08/18/22 17:29	08/19/22 17:39	1
Potassium	**8.3**		3.3		mg/L		08/18/22 17:29	08/19/22 17:39	1
Sodium	**37**		0.50		mg/L		08/18/22 17:29	08/19/22 17:39	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:33	1
Arsenic	**0.0031**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:33	1
Barium	**0.028**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:33	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:33	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:33	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:33	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:33	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 13:33	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:33	1
Nickel	**0.0047**		0.0030		mg/L		08/18/22 17:29	08/19/22 13:33	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:33	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:33	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:33	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:33	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 02:55	1
Nitrate Nitrite as N	**4.0**	**F1**	0.40		mg/L			08/10/22 02:55	1
Chloride	**72**	**F1**	1.5		mg/L			08/10/22 02:55	1
Sulfate	**73**		1.5		mg/L			08/10/22 02:55	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**1.9**		0.50		mg/L			08/19/22 06:26	1

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-09
Lab Sample ID: 580-116780-10
Date Collected: 08/09/22 09:45
Matrix: Water
Date Received: 08/09/22 14:30

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**460**		7.0		mg/L			08/11/22 16:17	1
Bicarbonate Alkalinity as CaCO3	**460**		7.0		mg/L			08/11/22 16:17	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/11/22 16:17	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/11/22 16:17	1
Total Dissolved Solids	**710**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-400936/6
Matrix: Water
Analysis Batch: 400936

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		0.30		ug/L			08/18/22 09:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 09:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 09:21	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 09:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 09:21	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 09:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 09:21	1
2-Butanone	ND		10		ug/L			08/18/22 09:21	1
2-Hexanone	ND		3.0		ug/L			08/18/22 09:21	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 09:21	1
Acetone	ND		10		ug/L			08/18/22 09:21	1
Acrylonitrile	ND		10		ug/L			08/18/22 09:21	1
Benzene	ND		0.20		ug/L			08/18/22 09:21	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 09:21	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 09:21	1
Bromoform	ND		0.50		ug/L			08/18/22 09:21	1
Bromomethane	ND		0.50		ug/L			08/18/22 09:21	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 09:21	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 09:21	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 09:21	1
Chloroethane	ND		0.50		ug/L			08/18/22 09:21	1
Chloroform	ND		0.20		ug/L			08/18/22 09:21	1
Chloromethane	ND		0.50		ug/L			08/18/22 09:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 09:21	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 09:21	1
Dibromomethane	ND		0.20		ug/L			08/18/22 09:21	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 09:21	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 09:21	1
Methyl iodide	ND		0.50		ug/L			08/18/22 09:21	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 09:21	1
o-Xylene	ND		0.50		ug/L			08/18/22 09:21	1
Styrene	ND		1.0		ug/L			08/18/22 09:21	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 09:21	1
Toluene	ND		0.20		ug/L			08/18/22 09:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 09:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 09:21	1
Trichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 09:21	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 09:21	1

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

Lab Sample ID: MB 580-400936/6
Matrix: Water
Analysis Batch: 400936

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*08/18/22 09:21*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/18/22 09:21*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/18/22 09:21*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/18/22 09:21*	*1*

Lab Sample ID: LCS 580-400936/3
Matrix: Water
Analysis Batch: 400936

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	5.48		ug/L		110	69 - 127
1,1,1-Trichloroethane	5.00	4.90		ug/L		98	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.38		ug/L		108	67 - 136
1,1,2-Trichloroethane	5.00	5.01		ug/L		100	73 - 127
1,1-Dichloroethane	5.00	4.98		ug/L		100	74 - 120
1,1-Dichloroethene	5.00	4.41		ug/L		88	60 - 129
1,2,3-Trichloropropane	5.00	5.55		ug/L		111	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.52		ug/L		110	55 - 135
1,2-Dibromoethane	5.00	5.42		ug/L		108	61 - 143
1,2-Dichlorobenzene	5.00	5.74		ug/L		115	72 - 129
1,2-Dichloroethane	5.00	4.82		ug/L		96	74 - 127
1,2-Dichloropropane	5.00	4.90		ug/L		98	69 - 130
1,4-Dichlorobenzene	5.00	5.39		ug/L		108	71 - 129
2-Butanone	25.0	21.1		ug/L		85	37 - 150
2-Hexanone	25.0	25.9		ug/L		104	56 - 150
4-Methyl-2-pentanone	25.0	24.6		ug/L		98	63 - 137
Acetone	25.0	25.9		ug/L		104	49 - 150
Acrylonitrile	50.0	44.1		ug/L		88	50 - 145
Benzene	5.00	5.23		ug/L		105	80 - 120
Bromochloromethane	5.00	5.17		ug/L		103	79 - 121
Bromodichloromethane	5.00	5.25		ug/L		105	74 - 131
Bromoform	5.00	5.45		ug/L		109	48 - 127
Bromomethane	5.00	4.47		ug/L		89	51 - 148
Carbon disulfide	5.00	4.48		ug/L		90	54 - 142
Carbon tetrachloride	5.00	4.84		ug/L		97	66 - 130
Chlorobenzene	5.00	5.42		ug/L		108	74 - 123
Chloroethane	5.00	4.76		ug/L		95	54 - 140
Chloroform	5.00	5.00		ug/L		100	75 - 120
Chloromethane	5.00	4.71		ug/L		94	32 - 150
cis-1,2-Dichloroethene	5.00	4.96		ug/L		99	72 - 120
cis-1,3-Dichloropropene	5.00	5.32		ug/L		106	77 - 131
Dibromochloromethane	5.00	5.42		ug/L		108	62 - 141
Dibromomethane	5.00	4.75		ug/L		95	65 - 141
Ethylbenzene	5.00	5.47		ug/L		109	80 - 124
m,p-Xylene	5.00	5.41		ug/L		108	75 - 124
Methyl iodide	5.00	4.63		ug/L		93	60 - 128
Methylene Chloride	5.00	4.56	J	ug/L		91	40 - 142
o-Xylene	5.00	5.56		ug/L		111	71 - 124

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

Lab Sample ID: LCS 580-400936/3
Matrix: Water
Analysis Batch: 400936

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	5.00	5.15		ug/L		103	74 - 127
Tetrachloroethene	5.00	5.04		ug/L		101	75 - 124
Toluene	5.00	5.41		ug/L		108	80 - 126
trans-1,2-Dichloroethene	5.00	4.55		ug/L		91	69 - 121
trans-1,3-Dichloropropene	5.00	5.48		ug/L		110	71 - 138
trans-1,4-Dichloro-2-butene	5.00	3.44		ug/L		69	20 - 150
Trichloroethene	5.00	4.59		ug/L		92	72 - 120
Trichlorofluoromethane	5.00	4.69		ug/L		94	60 - 132
Vinyl chloride	5.00	4.95		ug/L		99	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCSD 580-400936/4
Matrix: Water
Analysis Batch: 400936

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	5.34		ug/L		107	69 - 127	2	22
1,1,1-Trichloroethane	5.00	4.98		ug/L		100	70 - 121	2	24
1,1,2,2-Tetrachloroethane	5.00	5.43		ug/L		109	67 - 136	1	24
1,1,2-Trichloroethane	5.00	5.01		ug/L		100	73 - 127	0	22
1,1-Dichloroethane	5.00	4.95		ug/L		99	74 - 120	1	26
1,1-Dichloroethene	5.00	4.53		ug/L		91	60 - 129	3	29
1,2,3-Trichloropropane	5.00	5.51		ug/L		110	67 - 135	1	25
1,2-Dibromo-3-Chloropropane	5.00	5.29		ug/L		106	55 - 135	4	29
1,2-Dibromoethane	5.00	5.27		ug/L		105	61 - 143	3	22
1,2-Dichlorobenzene	5.00	5.73		ug/L		115	72 - 129	0	22
1,2-Dichloroethane	5.00	5.22		ug/L		104	74 - 127	8	21
1,2-Dichloropropane	5.00	4.92		ug/L		98	69 - 130	0	22
1,4-Dichlorobenzene	5.00	5.24		ug/L		105	71 - 129	3	22
2-Butanone	25.0	18.6		ug/L		75	37 - 150	13	35
2-Hexanone	25.0	21.4		ug/L		86	56 - 150	19	29
4-Methyl-2-pentanone	25.0	24.9		ug/L		100	63 - 137	1	26
Acetone	25.0	23.5		ug/L		94	49 - 150	10	24
Acrylonitrile	50.0	43.9		ug/L		88	50 - 145	0	33
Benzene	5.00	5.20		ug/L		104	80 - 120	0	22
Bromochloromethane	5.00	5.00		ug/L		100	79 - 121	3	20
Bromodichloromethane	5.00	5.33		ug/L		107	74 - 131	2	21
Bromoform	5.00	5.33		ug/L		107	48 - 127	2	23
Bromomethane	5.00	4.37		ug/L		87	51 - 148	2	35
Carbon disulfide	5.00	4.60		ug/L		92	54 - 142	2	34
Carbon tetrachloride	5.00	4.89		ug/L		98	66 - 130	1	24
Chlorobenzene	5.00	5.28		ug/L		106	74 - 123	3	21
Chloroethane	5.00	4.61		ug/L		92	54 - 140	3	33

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

Lab Sample ID: LCSD 580-400936/4
Matrix: Water
Analysis Batch: 400936

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
Chloroform	5.00	4.92		ug/L		98	75 - 120	2	21
Chloromethane	5.00	4.34		ug/L		87	32 - 150	8	33
cis-1,2-Dichloroethene	5.00	4.67		ug/L		93	72 - 120	6	22
cis-1,3-Dichloropropene	5.00	5.13		ug/L		103	77 - 131	4	24
Dibromochloromethane	5.00	5.44		ug/L		109	62 - 141	0	22
Dibromomethane	5.00	4.86		ug/L		97	65 - 141	2	22
Ethylbenzene	5.00	5.40		ug/L		108	80 - 124	1	22
m,p-Xylene	5.00	5.31		ug/L		106	75 - 124	2	22
Methyl iodide	5.00	4.56		ug/L		91	60 - 128	2	39
Methylene Chloride	5.00	4.48	J	ug/L		90	40 - 142	2	25
o-Xylene	5.00	5.44		ug/L		109	71 - 124	2	23
Styrene	5.00	5.09		ug/L		102	74 - 127	1	22
Tetrachloroethene	5.00	5.03		ug/L		101	75 - 124	0	20
Toluene	5.00	5.38		ug/L		108	80 - 126	1	20
trans-1,2-Dichloroethene	5.00	4.70		ug/L		94	69 - 121	3	27
trans-1,3-Dichloropropene	5.00	5.37		ug/L		107	71 - 138	2	26
trans-1,4-Dichloro-2-butene	5.00	3.43		ug/L		69	20 - 150	0	35
Trichloroethene	5.00	4.41		ug/L		88	72 - 120	4	22
Trichlorofluoromethane	5.00	4.68		ug/L		94	60 - 132	0	32
Vinyl chloride	5.00	4.86		ug/L		97	41 - 150	2	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-401293/6
Matrix: Water
Analysis Batch: 401293

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 16:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/21/22 16:57*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/21/22 16:57*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*08/21/22 16:57*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 16:57*	*1*

Lab Sample ID: LCS 580-401293/3
Matrix: Water
Analysis Batch: 401293

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	12.5	12.4		ug/L		99	38 - 150

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

Lab Sample ID: LCS 580-401293/3
Matrix: Water
Analysis Batch: 401293

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-401293/4
Matrix: Water
Analysis Batch: 401293

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
Vinyl acetate			12.5	12.7		ug/L		102	38 - 150	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-401085/24-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		08/18/22 17:29	08/19/22 16:44	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 16:44	1
Magnesium	ND		0.50		mg/L		08/18/22 17:29	08/19/22 16:44	1
Manganese	ND		0.020		mg/L		08/18/22 17:29	08/19/22 16:44	1
Potassium	ND		3.3		mg/L		08/18/22 17:29	08/19/22 16:44	1
Sodium	ND		0.50		mg/L		08/18/22 17:29	08/19/22 16:44	1

Lab Sample ID: LCS 580-401085/25-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium			20.0	20.7		mg/L		103	80 - 120
Iron			20.0	22.7		mg/L		114	80 - 120
Magnesium			20.0	21.1		mg/L		105	80 - 120
Manganese			1.00	1.05		mg/L		105	80 - 120
Potassium			20.0	21.1		mg/L		106	80 - 120
Sodium			20.0	18.6		mg/L		93	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-401085/26-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 401085

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			20.0	22.3		mg/L		111	80 - 120	2	20
Magnesium			20.0	20.9		mg/L		105	80 - 120	1	20
Manganese			1.00	1.04		mg/L		104	80 - 120	1	20
Potassium			20.0	20.9		mg/L		104	80 - 120	1	20
Sodium			20.0	18.5		mg/L		93	80 - 120	1	20

Lab Sample ID: 580-116780-1 MS
Matrix: Water
Analysis Batch: 401352

Client Sample ID: 0822-01
Prep Type: Dissolved
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	100		20.0	126	4	mg/L		118	80 - 120		
Iron	0.84		20.0	22.7		mg/L		109	80 - 120		
Magnesium	59		20.0	79.8		mg/L		106	80 - 120		
Manganese	0.087		1.00	1.12		mg/L		103	80 - 120		
Potassium	7.6		20.0	28.2		mg/L		103	80 - 120		
Sodium	27		20.0	48.1		mg/L		105	80 - 120		

Lab Sample ID: 580-116780-1 MSD
Matrix: Water
Analysis Batch: 401352

Client Sample ID: 0822-01
Prep Type: Dissolved
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	100		20.0	126	4	mg/L		116	80 - 120	0	20
Iron	0.84		20.0	23.2		mg/L		112	80 - 120	2	20
Magnesium	59		20.0	79.1		mg/L		103	80 - 120	1	20
Manganese	0.087		1.00	1.14		mg/L		105	80 - 120	2	20
Potassium	7.6		20.0	28.9		mg/L		106	80 - 120	2	20
Sodium	27		20.0	48.0		mg/L		105	80 - 120	0	20

Lab Sample ID: 580-116780-1 DU
Matrix: Water
Analysis Batch: 401352

Client Sample ID: 0822-01
Prep Type: Dissolved
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	100		105		mg/L				2	20
Iron	0.84		0.866		mg/L				3	20
Magnesium	59		59.9		mg/L				2	20
Manganese	0.087		0.0889		mg/L				2	20
Potassium	7.6		7.67		mg/L				0.8	20
Sodium	27		27.8		mg/L				3	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-401085/24-A
Matrix: Water
Analysis Batch: 401486

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 12:33	1
Arsenic	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 12:33	1
Barium	ND		0.0012		mg/L		08/18/22 17:29	08/19/22 12:33	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 12:33	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 12:33	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 12:33	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 12:33	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 12:33	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 12:33	1

Lab Sample ID: LCS 580-401085/25-A
Matrix: Water
Analysis Batch: 401486

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.06		mg/L		106	80 - 120
Arsenic	1.00	1.05		mg/L		105	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Beryllium	1.00	1.05		mg/L		105	80 - 120
Cadmium	1.00	1.05		mg/L		105	80 - 120
Chromium	1.00	1.08		mg/L		108	80 - 120
Cobalt	1.00	1.07		mg/L		107	80 - 120
Copper	1.00	1.06		mg/L		106	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Nickel	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	0.993		mg/L		99	80 - 120
Silver	1.00	1.04		mg/L		104	80 - 120
Thallium	1.00	1.09		mg/L		109	80 - 120
Vanadium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-401085/26-A
Matrix: Water
Analysis Batch: 401486

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	1.07		mg/L		107	80 - 120	1	20
Arsenic	1.00	1.05		mg/L		105	80 - 120	1	20
Barium	1.00	1.05		mg/L		105	80 - 120	1	20
Beryllium	1.00	1.05		mg/L		105	80 - 120	0	20
Cadmium	1.00	1.06		mg/L		106	80 - 120	1	20
Chromium	1.00	1.09		mg/L		109	80 - 120	1	20
Cobalt	1.00	1.08		mg/L		108	80 - 120	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-401085/26-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 401486
Prep Batch: 401085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper			1.00	1.07		mg/L		107	80 - 120	0	20
Lead			1.00	1.09		mg/L		109	80 - 120	2	20
Nickel			1.00	1.08		mg/L		108	80 - 120	2	20
Selenium			1.00	1.06		mg/L		106	80 - 120	6	20
Silver			1.00	1.07		mg/L		107	80 - 120	3	20
Thallium			1.00	1.10		mg/L		110	80 - 120	0	20
Vanadium			1.00	1.09		mg/L		109	80 - 120	1	20
Zinc			1.00	1.09		mg/L		109	80 - 120	5	20

Lab Sample ID: 580-116780-1 MS
Client Sample ID: 0822-01
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 401486
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		1.00	0.985		mg/L		99	80 - 120
Arsenic	0.0064		1.00	1.03		mg/L		102	80 - 120
Barium	0.046		1.00	1.06		mg/L		102	80 - 120
Beryllium	ND		1.00	1.01		mg/L		101	80 - 120
Cadmium	ND		1.00	1.00		mg/L		100	80 - 120
Chromium	ND		1.00	1.03		mg/L		103	80 - 120
Cobalt	ND		1.00	1.02		mg/L		102	80 - 120
Copper	ND		1.00	1.03		mg/L		103	80 - 120
Lead	ND		1.00	1.03		mg/L		103	80 - 120
Nickel	ND		1.00	1.00		mg/L		100	80 - 120
Selenium	ND		1.00	0.999		mg/L		100	80 - 120
Silver	ND		1.00	1.02		mg/L		102	80 - 120
Thallium	ND		1.00	1.03		mg/L		103	80 - 120
Vanadium	ND		1.00	1.02		mg/L		102	80 - 120
Zinc	ND		1.00	0.996		mg/L		100	80 - 120

Lab Sample ID: 580-116780-1 MSD
Client Sample ID: 0822-01
Matrix: Water
Prep Type: Total Recoverable
Analysis Batch: 401486
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1.00	0.975		mg/L		97	80 - 120	1	20
Arsenic	0.0064		1.00	1.02		mg/L		101	80 - 120	1	20
Barium	0.046		1.00	1.07		mg/L		102	80 - 120	0	20
Beryllium	ND		1.00	1.01		mg/L		101	80 - 120	0	20
Cadmium	ND		1.00	1.00		mg/L		100	80 - 120	0	20
Chromium	ND		1.00	1.02		mg/L		102	80 - 120	0	20
Cobalt	ND		1.00	1.02		mg/L		102	80 - 120	0	20
Copper	ND		1.00	1.04		mg/L		104	80 - 120	0	20
Lead	ND		1.00	1.03		mg/L		103	80 - 120	0	20
Nickel	ND		1.00	1.01		mg/L		100	80 - 120	1	20
Selenium	ND		1.00	0.997		mg/L		100	80 - 120	0	20
Silver	ND		1.00	1.02		mg/L		102	80 - 120	0	20
Thallium	ND		1.00	1.04		mg/L		104	80 - 120	1	20
Vanadium	ND		1.00	1.03		mg/L		102	80 - 120	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-116780-1 MSD
Matrix: Water
Analysis Batch: 401486

Client Sample ID: 0822-01
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	ND		1.00	0.987		mg/L		99	80 - 120	1	20

Lab Sample ID: 580-116780-1 DU
Matrix: Water
Analysis Batch: 401486

Client Sample ID: 0822-01
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0064		0.00632		mg/L		1	20
Barium	0.046		0.0475		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: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-400293/3
Matrix: Water
Analysis Batch: 400293

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			08/10/22 01:10	1
Chloride	ND		1.5		mg/L			08/10/22 01:10	1
Sulfate	ND		1.5		mg/L			08/10/22 01:10	1

Lab Sample ID: LCS 580-400293/4
Matrix: Water
Analysis Batch: 400293

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	4.49		mg/L		90	90 - 110
Chloride	50.0	52.4		mg/L		105	90 - 110
Sulfate	50.0	53.6		mg/L		107	90 - 110

Lab Sample ID: LCSD 580-400293/5
Matrix: Water
Analysis Batch: 400293

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	4.52		mg/L		90	90 - 110	1	15
Chloride	50.0	52.5		mg/L		105	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-400293/5
Matrix: Water
Analysis Batch: 400293

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate			50.0	53.6		mg/L		107	90 - 110	0	15

Lab Sample ID: 580-116780-10 MS
Matrix: Water
Analysis Batch: 400293

Client Sample ID: 0822-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	ND		5.00	4.63		mg/L		93	90 - 110
Chloride	72	F1	50.0	113	F1	mg/L		83	90 - 110
Sulfate	73		50.0	120		mg/L		94	90 - 110

Lab Sample ID: 580-116780-10 MSD
Matrix: Water
Analysis Batch: 400293

Client Sample ID: 0822-09
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	4.69		mg/L		94	90 - 110	1	15
Chloride	72	F1	50.0	114	F1	mg/L		83	90 - 110	0	15
Sulfate	73		50.0	120		mg/L		94	90 - 110	0	15

Lab Sample ID: MB 580-400295/3
Matrix: Water
Analysis Batch: 400295

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			08/10/22 01:10	1

Lab Sample ID: LCS 580-400295/4
Matrix: Water
Analysis Batch: 400295

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	9.93		mg/L		99	90 - 110

Lab Sample ID: LCSD 580-400295/5
Matrix: Water
Analysis Batch: 400295

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			10.0	9.96		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-116780-10 MS
Matrix: Water
Analysis Batch: 400295

Client Sample ID: 0822-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	4.0	F1	10.0	11.7	F1	mg/L		77	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-116780-10 MSD
Matrix: Water
Analysis Batch: 400295

Client Sample ID: 0822-09
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	4.0	F1	10.0	11.7	F1	mg/L		77	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-400481/1-A
Matrix: Water
Analysis Batch: 400490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1

Lab Sample ID: LCS 580-400481/2-A
Matrix: Water
Analysis Batch: 400490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.96		mg/L		98	90 - 110

Lab Sample ID: 580-116780-1 MS
Matrix: Water
Analysis Batch: 400490

Client Sample ID: 0822-01
Prep Type: Total/NA
Prep Batch: 400481

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	ND		2.00	1.96		mg/L		98	90 - 110

Lab Sample ID: 580-116780-1 MSD
Matrix: Water
Analysis Batch: 400490

Client Sample ID: 0822-01
Prep Type: Total/NA
Prep Batch: 400481

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	ND		2.00	1.96		mg/L		98	90 - 110	0	20

Lab Sample ID: 580-116780-1 DU
Matrix: Water
Analysis Batch: 400490

Client Sample ID: 0822-01
Prep Type: Total/NA
Prep Batch: 400481

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	ND		ND		mg/L		NC	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-400283/2
Matrix: Water
Analysis Batch: 400283

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	98.8		mg/L		99	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-400640/1
Matrix: Water
Analysis Batch: 400640

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			08/15/22 17:08	1

Lab Sample ID: LCS 580-400640/2
Matrix: Water
Analysis Batch: 400640

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	894		mg/L		89	80 - 120		

Method: SM 5220D - COD

Lab Sample ID: MB 580-400444/3-A
Matrix: Water
Analysis Batch: 400467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400444

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Lab Sample ID: LCS 580-400444/4-A
Matrix: Water
Analysis Batch: 400467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400444

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			75.0	71.7		mg/L		96	80 - 120		

Lab Sample ID: LCSD 580-400444/5-A
Matrix: Water
Analysis Batch: 400467

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 400444

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand			75.0	74.7		mg/L		100	80 - 120	4	20

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-257743/67
Matrix: Water
Analysis Batch: 257743

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			08/19/22 02:13	1

Lab Sample ID: LCS 570-257743/68
Matrix: Water
Analysis Batch: 257743

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic			5.03	4.91		mg/L		98	85 - 115		

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCSD 570-257743/69
Matrix: Water
Analysis Batch: 257743

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic			5.03	4.94		mg/L		98	85 - 115	1	20

Lab Sample ID: 580-116780-1 MS
Matrix: Water
Analysis Batch: 257743

Client Sample ID: 0822-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic	1.3		5.03	6.02		mg/L		94	31 - 145		

Lab Sample ID: 580-116780-1 MSD
Matrix: Water
Analysis Batch: 257743

Client Sample ID: 0822-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	1.3		5.03	5.99		mg/L		93	31 - 145	1	20

Lab Chronicle

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-01
Date Collected: 08/08/22 10:48
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 11:23
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 18:11
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 16:53
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:19
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 12:37
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 01:45
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 01:45
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 04:08

Client Sample ID: 0822-02
Date Collected: 08/08/22 11:51
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 11:47
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 18:35
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:22
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:16
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 01:57
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 01:57
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 04:32

Client Sample ID: 0822-03
Lab Sample ID: 580-116780-3

Date Collected: 08/08/22 13:05
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 12:11
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 19:00

Client Sample ID: 0822-04
Lab Sample ID: 580-116780-4

Date Collected: 08/08/22 13:50
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 12:36
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 19:25
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:26
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:19
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 02:08
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 02:08
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 04:55

Client Sample ID: 0822-05
Lab Sample ID: 580-116780-5

Date Collected: 08/08/22 15:00
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 13:01
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 19:49
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:29
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:23
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 02:20
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 02:20
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11

Lab Chronicle

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-05
Lab Sample ID: 580-116780-5
Date Collected: 08/08/22 15:00
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 05:18

Client Sample ID: 0822-06
Lab Sample ID: 580-116780-6
Date Collected: 08/08/22 16:38
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 13:25
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 20:14
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:32
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:26
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 02:32
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 02:32
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 05:41

Client Sample ID: 0822-07
Lab Sample ID: 580-116780-7
Date Collected: 08/08/22 17:45
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 13:50
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 20:39

Client Sample ID: TRIP BLANK
Lab Sample ID: 580-116780-8
Date Collected: 08/08/22 00:01
Matrix: Water
Date Received: 08/09/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 10:34
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 17:22

Lab Chronicle

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-08
Date Collected: 08/09/22 09:25
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 14:14
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 21:04
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:36
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:30
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 02:44
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 02:44
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 06:04

Client Sample ID: 0822-09
Date Collected: 08/09/22 09:45
Date Received: 08/09/22 14:30

Lab Sample ID: 580-116780-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 14:39
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 21:29
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:39
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:33
Total/NA	Analysis	300.0		1	400293	JHR	EET SEA	08/10/22 02:55
Total/NA	Analysis	300.0		1	400295	JHR	EET SEA	08/10/22 02:55
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400283	MLT	EET SEA	08/11/22 16:17
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257743	UAPD	EET CAL 4	08/19/22 06:26

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-116780-1
Project/Site: Coupeville SW Facility GW Q3 2022

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
SM 2320B		Water	Alkalinity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3
SM 2540C		Water	Total Dissolved Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	12-01-22
California	State	3082	07-31-23
Nevada	State	CA00111	08-31-22
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-116780-1	0822-01	Water	08/08/22 10:48	08/09/22 14:30
580-116780-2	0822-02	Water	08/08/22 11:51	08/09/22 14:30
580-116780-3	0822-03	Water	08/08/22 13:05	08/09/22 14:30
580-116780-4	0822-04	Water	08/08/22 13:50	08/09/22 14:30
580-116780-5	0822-05	Water	08/08/22 15:00	08/09/22 14:30
580-116780-6	0822-06	Water	08/08/22 16:38	08/09/22 14:30
580-116780-7	0822-07	Water	08/08/22 17:45	08/09/22 14:30
580-116780-8	TRIP BLANK	Water	08/08/22 00:01	08/09/22 14:30
580-116780-9	0822-08	Water	08/09/22 09:25	08/09/22 14:30
580-116780-10	0822-09	Water	08/09/22 09:45	08/09/22 14:30

Eurofins Environmental Testing Northwest, LLC
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: SG.	Lab PM: Tracy Dutton	Carrier Tracking No(s):	COC No:
Client Contact: Sam Graber	Phone: 425-766-3362	E-Mail:	State of Origin: WA	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #: 04222010.04
Address: 2405 140th Ave NE #107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA 98122	Compliance Project: Δ Yes Δ No			
Phone: 425-766-3362	PO #: Purchase Order not required			
Email: SGraber@scsengineers.com	WO #:			
Project Name: Cowlitz Solid Waste Facility	Project #:			
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)	total metals	Dissolved metals	Chloride / Fluoride / Sulfate	Ammonia	TOC	COD	Nitrate / Nitrite (300.00)	Alkalinity	TDS	Carbonate / bicarbonate	VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:																
0822-01	8/8/22	1048	G	W	Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-02		1151			Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-03		1305			N	N											X	3	
0822-04		1350			Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-05		1500			Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-06		1638			Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-07		1715			N	N											X	3	
trip blank		-	-		N	N											X	2	
0822-08	8/9/22	925	G		Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-09		945	G		Y	N	X	X	X	X	X	X	X	X	X	X	X	10	

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: 8/9/22 1000	Company: SCS	Received by: Sydney Lawhorn Date/Time: 8/9/22 1430 Company: EA
Relinquished by:	Date/Time:	Company:	Received by: Date/Time: Company:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Rema

580-116780 Chain of Custody

1

Therm. ID: IR9 Cor: 0.2 ° Unc: 0.6 °
Cooler Dsc: BB
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ✓
Other: ___

2

Therm. ID: IR9 Cor: 0.3 ° Unc: 0.1 °
Cooler Dsc: BB
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ✓
Other: ___

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424
Phone 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dutton, Tracy L	Carrier Tracking No(s):	COC No. 580-107663.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Tracy Dutton@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-116780-1
Address: 2841 Dow Avenue, Suite 100	Due Date Requested 8/22/2022			
City: Tustin	TAT Requested (days)			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q2 2022	Project #: 58017834			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note.
			Preservation Code:						
0822-01 (580-116780-1)	8/8/22	10 48 Pacific		Water			X	1	
0822-02 (580-116780-2)	8/8/22	11 51 Pacific		Water			X	1	
0822-04 (580-116780-4)	8/8/22	13.50 Pacific		Water			X	1	
0822-05 (580-116780-5)	8/8/22	15 00 Pacific		Water			X	1	
0822-06 (580-116780-6)	8/8/22	16 38 Pacific		Water			X	1	
0822-08 (580-116780-9)	8/9/22	09 25 Pacific		Water			X	1	
0822-09 (580-116780-10)	8/9/22	09 45 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification *Unconfirmed*	***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) 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		8/10/22 1440	EEN		8/11/22 10:00	EE
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 1781597	Cooler Temperature(s) °C and Other Remarks: 1.4/1.4 SCM

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-116780-1

Login Number: 116780
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins 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.	N/A	
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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-116780-1

Login Number: 116780
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins Calscience
List Creation: 08/11/22 12:32 PM

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.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
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	

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ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-116817-1
Client Project/Site: Coupeville SW Facility GW Q3 2022

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Mr. Sam Graber

Kristine D. Allen

Authorized for release by:
8/23/2022 4:50:58 PM
Kristine Allen, Client Service Manager
(253)433-0390
Kristine.Allen@et.eurofinsus.com

Designee for

Katie Grant, Project Manager
(253)922-2310
Katie.Grant@et.eurofinsus.com

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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: 580-116817-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-116817-1

Comments
No additional comments.

Receipt
The samples were received on 8/10/2022 10:42 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4º C.

GC/MS VOA
Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 0822-10 (580-116817-1). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-401293 recovered above the upper control limit for Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 0822-11 (580-116817-2), 0822-12 (580-116817-3) and (CCVIS 580-401293/2).

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 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-400317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

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

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

Definitions/Glossary

Client: SCS Engineers
Job ID: 580-116817-1
Project/Site: Coupeville SW Facility GW Q3 2022

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client Sample ID: 0822-10
Date Collected: 08/09/22 10:41
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 15:04	1
1,1,1-Trichloroethane	**0.52**		0.20		ug/L			08/18/22 15:04	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 15:04	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 15:04	1
1,1-Dichloroethane	**2.7**		0.20		ug/L			08/18/22 15:04	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 15:04	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 15:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 15:04	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 15:04	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 15:04	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 15:04	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 15:04	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 15:04	1
2-Butanone	ND		10		ug/L			08/18/22 15:04	1
2-Hexanone	ND		3.0		ug/L			08/18/22 15:04	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 15:04	1
Acetone	ND		10		ug/L			08/18/22 15:04	1
Acrylonitrile	ND		10		ug/L			08/18/22 15:04	1
Benzene	ND		0.20		ug/L			08/18/22 15:04	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 15:04	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 15:04	1
Bromoform	ND		0.50		ug/L			08/18/22 15:04	1
Bromomethane	ND		0.50		ug/L			08/18/22 15:04	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 15:04	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 15:04	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 15:04	1
Chloroethane	ND		0.50		ug/L			08/18/22 15:04	1
Chloroform	ND		0.20		ug/L			08/18/22 15:04	1
Chloromethane	ND		0.50		ug/L			08/18/22 15:04	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 15:04	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 15:04	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 15:04	1
Dibromomethane	ND		0.20		ug/L			08/18/22 15:04	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 15:04	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 15:04	1
Methyl iodide	ND		0.50		ug/L			08/18/22 15:04	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 15:04	1
o-Xylene	ND		0.50		ug/L			08/18/22 15:04	1
Styrene	ND		1.0		ug/L			08/18/22 15:04	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 15:04	1
Toluene	ND		0.20		ug/L			08/18/22 15:04	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 15:04	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 15:04	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 15:04	1
Trichloroethene	ND		0.20		ug/L			08/18/22 15:04	1
Vinyl chloride	**1.5**		0.020		ug/L			08/18/22 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/18/22 15:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/18/22 15:04*	*1*

Client Sample ID: 0822-10
Date Collected: 08/09/22 10:41
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*08/18/22 15:04*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/18/22 15:04*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	**120**		2.5		ug/L			08/21/22 22:43	5
Vinyl acetate	ND		10		ug/L			08/21/22 22:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*08/21/22 22:43*	*5*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/21/22 22:43*	*5*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*08/21/22 22:43*	*5*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/21/22 22:43*	*5*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**260**		0.50		mg/L		08/18/22 17:29	08/19/22 17:42	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 17:42	1
Magnesium	**110**		0.50		mg/L		08/18/22 17:29	08/19/22 17:42	1
Manganese	**0.72**		0.020		mg/L		08/18/22 17:29	08/19/22 17:42	1
Potassium	**9.5**		3.3		mg/L		08/18/22 17:29	08/19/22 17:42	1
Sodium	**34**		0.50		mg/L		08/18/22 17:29	08/19/22 17:42	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:37	1
Arsenic	**0.0021**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:37	1
Barium	**0.064**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:37	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:37	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:37	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:37	1
Cobalt	**0.0031**		0.00040		mg/L		08/18/22 17:29	08/19/22 13:37	1
Copper	**0.0046**		0.0020		mg/L		08/18/22 17:29	08/19/22 13:37	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:37	1
Nickel	**0.029**		0.0030		mg/L		08/18/22 17:29	08/19/22 13:37	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:37	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:37	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:37	1
Vanadium	**0.0085**		0.0040		mg/L		08/18/22 17:29	08/19/22 13:37	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 19:38	1
Nitrate Nitrite as N	**1.4**		0.40		mg/L			08/10/22 19:38	1
Chloride	**47**		1.5		mg/L			08/10/22 19:38	1
Sulfate	**290**		15		mg/L			08/10/22 20:36	10
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**19**		0.50		mg/L			08/17/22 21:05	1

Client Sample Results

Client: SCS Engineers
Job ID: 580-116817-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-10
Lab Sample ID: 580-116817-1
Date Collected: 08/09/22 10:41
Matrix: Water
Date Received: 08/10/22 10:42

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**790**		7.0		mg/L			08/13/22 20:16	1
Bicarbonate Alkalinity as CaCO3	**790**		7.0		mg/L			08/13/22 20:16	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/13/22 20:16	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/13/22 20:16	1
Total Dissolved Solids	**1300**		20		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	**56**		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116817-1

Client Sample ID: 0822-11
Date Collected: 08/09/22 11:40
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/21/22 21:53	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/21/22 21:53	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/21/22 21:53	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/21/22 21:53	1
1,1-Dichloroethane	ND		0.20		ug/L			08/21/22 21:53	1
1,1-Dichloroethene	ND		0.20		ug/L			08/21/22 21:53	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/21/22 21:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/21/22 21:53	1
1,2-Dibromoethane	ND		0.10		ug/L			08/21/22 21:53	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/21/22 21:53	1
1,2-Dichloroethane	ND		0.20		ug/L			08/21/22 21:53	1
1,2-Dichloropropane	ND		0.20		ug/L			08/21/22 21:53	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/21/22 21:53	1
2-Butanone	ND		10		ug/L			08/21/22 21:53	1
2-Hexanone	ND		3.0		ug/L			08/21/22 21:53	1
4-Methyl-2-pentanone	ND		10		ug/L			08/21/22 21:53	1
Acetone	ND		10		ug/L			08/21/22 21:53	1
Acrylonitrile	ND		10		ug/L			08/21/22 21:53	1
Benzene	ND		0.20		ug/L			08/21/22 21:53	1
Bromochloromethane	ND		0.20		ug/L			08/21/22 21:53	1
Bromodichloromethane	ND		0.20		ug/L			08/21/22 21:53	1
Bromoform	ND		0.50		ug/L			08/21/22 21:53	1
Bromomethane	ND		0.50		ug/L			08/21/22 21:53	1
Carbon disulfide	ND		0.30		ug/L			08/21/22 21:53	1
Carbon tetrachloride	ND		0.20		ug/L			08/21/22 21:53	1
Chlorobenzene	ND		0.20		ug/L			08/21/22 21:53	1
Chloroethane	ND		0.50		ug/L			08/21/22 21:53	1
Chloroform	ND		0.20		ug/L			08/21/22 21:53	1
Chloromethane	ND		0.50		ug/L			08/21/22 21:53	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/21/22 21:53	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/21/22 21:53	1
Dibromochloromethane	ND		0.20		ug/L			08/21/22 21:53	1
Dibromomethane	ND		0.20		ug/L			08/21/22 21:53	1
Ethylbenzene	ND		0.20		ug/L			08/21/22 21:53	1
m,p-Xylene	ND		0.50		ug/L			08/21/22 21:53	1
Methyl iodide	ND		0.50		ug/L			08/21/22 21:53	1
Methylene Chloride	ND		5.0		ug/L			08/21/22 21:53	1
o-Xylene	ND		0.50		ug/L			08/21/22 21:53	1
Styrene	ND		1.0		ug/L			08/21/22 21:53	1
Tetrachloroethene	ND		0.50		ug/L			08/21/22 21:53	1
Toluene	ND		0.20		ug/L			08/21/22 21:53	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/21/22 21:53	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/21/22 21:53	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/21/22 21:53	1
Trichloroethene	ND		0.20		ug/L			08/21/22 21:53	1
Trichlorofluoromethane	ND		0.50		ug/L			08/21/22 21:53	1
Vinyl acetate	ND		2.0		ug/L			08/21/22 21:53	1
Vinyl chloride	ND		0.020		ug/L			08/21/22 21:53	1

Client Sample ID: 0822-11
Date Collected: 08/09/22 11:40
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*08/21/22 21:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/21/22 21:53*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*		*08/21/22 21:53*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/21/22 21:53*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**83**		0.50		mg/L		08/18/22 17:29	08/19/22 17:46	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 17:46	1
Magnesium	**48**		0.50		mg/L		08/18/22 17:29	08/19/22 17:46	1
Manganese	ND		0.020		mg/L		08/18/22 17:29	08/19/22 17:46	1
Potassium	**5.8**		3.3		mg/L		08/18/22 17:29	08/19/22 17:46	1
Sodium	**27**		0.50		mg/L		08/18/22 17:29	08/19/22 17:46	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:41	1
Arsenic	**0.0038**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:41	1
Barium	**0.021**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:41	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:41	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:41	1
Chromium	**0.0017**		0.00080		mg/L		08/18/22 17:29	08/19/22 13:41	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:41	1
Copper	**0.0027**		0.0020		mg/L		08/18/22 17:29	08/19/22 13:41	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:41	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 13:41	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:41	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:41	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:41	1
Vanadium	**0.0059**		0.0040		mg/L		08/18/22 17:29	08/19/22 13:41	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 19:49	1
Nitrate Nitrite as N	ND		0.40		mg/L			08/10/22 19:49	1
Chloride	**64**		1.5		mg/L			08/10/22 19:49	1
Sulfate	**59**		1.5		mg/L			08/10/22 19:49	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**2.1**		0.50		mg/L			08/17/22 21:29	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**310**		7.0		mg/L			08/13/22 20:16	1
Bicarbonate Alkalinity as CaCO3	**310**		7.0		mg/L			08/13/22 20:16	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/13/22 20:16	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/13/22 20:16	1
Total Dissolved Solids	**510**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116817-1

Client Sample ID: 0822-12
Date Collected: 08/09/22 12:15
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/21/22 22:18	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/21/22 22:18	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/21/22 22:18	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/21/22 22:18	1
1,1-Dichloroethane	ND		0.20		ug/L			08/21/22 22:18	1
1,1-Dichloroethene	ND		0.20		ug/L			08/21/22 22:18	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/21/22 22:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/21/22 22:18	1
1,2-Dibromoethane	ND		0.10		ug/L			08/21/22 22:18	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/21/22 22:18	1
1,2-Dichloroethane	ND		0.20		ug/L			08/21/22 22:18	1
1,2-Dichloropropane	ND		0.20		ug/L			08/21/22 22:18	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/21/22 22:18	1
2-Butanone	ND		10		ug/L			08/21/22 22:18	1
2-Hexanone	ND		3.0		ug/L			08/21/22 22:18	1
4-Methyl-2-pentanone	ND		10		ug/L			08/21/22 22:18	1
Acetone	ND		10		ug/L			08/21/22 22:18	1
Acrylonitrile	ND		10		ug/L			08/21/22 22:18	1
Benzene	ND		0.20		ug/L			08/21/22 22:18	1
Bromochloromethane	ND		0.20		ug/L			08/21/22 22:18	1
Bromodichloromethane	ND		0.20		ug/L			08/21/22 22:18	1
Bromoform	ND		0.50		ug/L			08/21/22 22:18	1
Bromomethane	ND		0.50		ug/L			08/21/22 22:18	1
Carbon disulfide	ND		0.30		ug/L			08/21/22 22:18	1
Carbon tetrachloride	ND		0.20		ug/L			08/21/22 22:18	1
Chlorobenzene	ND		0.20		ug/L			08/21/22 22:18	1
Chloroethane	ND		0.50		ug/L			08/21/22 22:18	1
Chloroform	ND		0.20		ug/L			08/21/22 22:18	1
Chloromethane	ND		0.50		ug/L			08/21/22 22:18	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/21/22 22:18	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/21/22 22:18	1
Dibromochloromethane	ND		0.20		ug/L			08/21/22 22:18	1
Dibromomethane	ND		0.20		ug/L			08/21/22 22:18	1
Ethylbenzene	ND		0.20		ug/L			08/21/22 22:18	1
m,p-Xylene	ND		0.50		ug/L			08/21/22 22:18	1
Methyl iodide	ND		0.50		ug/L			08/21/22 22:18	1
Methylene Chloride	ND		5.0		ug/L			08/21/22 22:18	1
o-Xylene	ND		0.50		ug/L			08/21/22 22:18	1
Styrene	ND		1.0		ug/L			08/21/22 22:18	1
Tetrachloroethene	ND		0.50		ug/L			08/21/22 22:18	1
Toluene	ND		0.20		ug/L			08/21/22 22:18	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/21/22 22:18	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/21/22 22:18	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/21/22 22:18	1
Trichloroethene	ND		0.20		ug/L			08/21/22 22:18	1
Trichlorofluoromethane	ND		0.50		ug/L			08/21/22 22:18	1
Vinyl acetate	ND		2.0		ug/L			08/21/22 22:18	1
Vinyl chloride	ND		0.020		ug/L			08/21/22 22:18	1

Client Sample ID: 0822-12
Date Collected: 08/09/22 12:15
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 120*		*08/21/22 22:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/21/22 22:18*	*1*
Dibromofluoromethane (Surr)	*118*		*80 - 120*		*08/21/22 22:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/21/22 22:18*	*1*

Method: 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**84**		0.50		mg/L		08/18/22 17:29	08/19/22 17:49	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 17:49	1
Magnesium	**49**		0.50		mg/L		08/18/22 17:29	08/19/22 17:49	1
Manganese	ND		0.020		mg/L		08/18/22 17:29	08/19/22 17:49	1
Potassium	**5.8**		3.3		mg/L		08/18/22 17:29	08/19/22 17:49	1
Sodium	**30**		0.50		mg/L		08/18/22 17:29	08/19/22 17:49	1

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 13:48	1
Arsenic	**0.0035**		0.0010		mg/L		08/18/22 17:29	08/19/22 13:48	1
Barium	**0.026**		0.0012		mg/L		08/18/22 17:29	08/19/22 13:48	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:48	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:48	1
Chromium	**0.0018**		0.00080		mg/L		08/18/22 17:29	08/19/22 13:48	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:48	1
Copper	**0.025**		0.0020		mg/L		08/18/22 17:29	08/19/22 13:48	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:48	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 13:48	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 13:48	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 13:48	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 13:48	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 13:48	1
Zinc	**0.012**		0.0070		mg/L		08/18/22 17:29	08/19/22 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20		mg/L			08/10/22 20:01	1
Nitrate Nitrite as N	**1.8**	**F1**	0.40		mg/L			08/10/22 20:01	1
Chloride	**54**		1.5		mg/L			08/10/22 20:01	1
Sulfate	**48**		1.5		mg/L			08/10/22 20:01	1
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1
Carbon, Total Organic	**1.8**		0.50		mg/L			08/17/22 21:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**340**		7.0		mg/L			08/13/22 20:16	1
Bicarbonate Alkalinity as CaCO3	**340**		7.0		mg/L			08/13/22 20:16	1
Carbonate Alkalinity as CaCO3	ND		7.0		mg/L			08/13/22 20:16	1
Hydroxide Alkalinity as CaCO3	ND		5.0		mg/L			08/13/22 20:16	1
Total Dissolved Solids	**490**		10		mg/L			08/15/22 17:08	1
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116817-1

Client Sample ID: Trip Blank

Date Collected: 08/09/22 00:01
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-4

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			08/18/22 10:58	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 10:58	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 10:58	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 10:58	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 10:58	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 10:58	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 10:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 10:58	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 10:58	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 10:58	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 10:58	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 10:58	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 10:58	1
2-Butanone	ND		10		ug/L			08/18/22 10:58	1
2-Hexanone	ND		3.0		ug/L			08/18/22 10:58	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 10:58	1
Acetone	ND		10		ug/L			08/18/22 10:58	1
Acrylonitrile	ND		10		ug/L			08/18/22 10:58	1
Benzene	ND		0.20		ug/L			08/18/22 10:58	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 10:58	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 10:58	1
Bromoform	ND		0.50		ug/L			08/18/22 10:58	1
Bromomethane	ND		0.50		ug/L			08/18/22 10:58	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 10:58	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 10:58	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 10:58	1
Chloroethane	ND		0.50		ug/L			08/18/22 10:58	1
Chloroform	ND		0.20		ug/L			08/18/22 10:58	1
Chloromethane	ND		0.50		ug/L			08/18/22 10:58	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 10:58	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 10:58	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 10:58	1
Dibromomethane	ND		0.20		ug/L			08/18/22 10:58	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 10:58	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 10:58	1
Methyl iodide	ND		0.50		ug/L			08/18/22 10:58	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 10:58	1
o-Xylene	ND		0.50		ug/L			08/18/22 10:58	1
Styrene	ND		1.0		ug/L			08/18/22 10:58	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 10:58	1
Toluene	ND		0.20		ug/L			08/18/22 10:58	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 10:58	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 10:58	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 10:58	1
Trichloroethene	ND		0.20		ug/L			08/18/22 10:58	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 10:58	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*08/18/22 10:58*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116817-1

Client Sample ID: Trip Blank
Date Collected: 08/09/22 00:01
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-4
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/18/22 10:58*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/18/22 10:58*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/18/22 10:58*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		2.0		ug/L			08/21/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/21/22 17:46*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/21/22 17:46*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*08/21/22 17:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/21/22 17:46*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-400936/6
Matrix: Water
Analysis Batch: 400936

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		0.30		ug/L			08/18/22 09:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1-Dichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,1-Dichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/18/22 09:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/18/22 09:21	1
1,2-Dibromoethane	ND		0.10		ug/L			08/18/22 09:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/18/22 09:21	1
1,2-Dichloroethane	ND		0.20		ug/L			08/18/22 09:21	1
1,2-Dichloropropane	ND		0.20		ug/L			08/18/22 09:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/18/22 09:21	1
2-Butanone	ND		10		ug/L			08/18/22 09:21	1
2-Hexanone	ND		3.0		ug/L			08/18/22 09:21	1
4-Methyl-2-pentanone	ND		10		ug/L			08/18/22 09:21	1
Acetone	ND		10		ug/L			08/18/22 09:21	1
Acrylonitrile	ND		10		ug/L			08/18/22 09:21	1
Benzene	ND		0.20		ug/L			08/18/22 09:21	1
Bromochloromethane	ND		0.20		ug/L			08/18/22 09:21	1
Bromodichloromethane	ND		0.20		ug/L			08/18/22 09:21	1
Bromoform	ND		0.50		ug/L			08/18/22 09:21	1
Bromomethane	ND		0.50		ug/L			08/18/22 09:21	1
Carbon disulfide	ND		0.30		ug/L			08/18/22 09:21	1
Carbon tetrachloride	ND		0.20		ug/L			08/18/22 09:21	1
Chlorobenzene	ND		0.20		ug/L			08/18/22 09:21	1
Chloroethane	ND		0.50		ug/L			08/18/22 09:21	1
Chloroform	ND		0.20		ug/L			08/18/22 09:21	1
Chloromethane	ND		0.50		ug/L			08/18/22 09:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 09:21	1
Dibromochloromethane	ND		0.20		ug/L			08/18/22 09:21	1
Dibromomethane	ND		0.20		ug/L			08/18/22 09:21	1
Ethylbenzene	ND		0.20		ug/L			08/18/22 09:21	1
m,p-Xylene	ND		0.50		ug/L			08/18/22 09:21	1
Methyl iodide	ND		0.50		ug/L			08/18/22 09:21	1
Methylene Chloride	ND		5.0		ug/L			08/18/22 09:21	1
o-Xylene	ND		0.50		ug/L			08/18/22 09:21	1
Styrene	ND		1.0		ug/L			08/18/22 09:21	1
Tetrachloroethene	ND		0.50		ug/L			08/18/22 09:21	1
Toluene	ND		0.20		ug/L			08/18/22 09:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/18/22 09:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/18/22 09:21	1
Trichloroethene	ND		0.20		ug/L			08/18/22 09:21	1
Trichlorofluoromethane	ND		0.50		ug/L			08/18/22 09:21	1
Vinyl chloride	ND		0.020		ug/L			08/18/22 09:21	1

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

Lab Sample ID: MB 580-400936/6
Matrix: Water
Analysis Batch: 400936

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		08/18/22 09:21	1
4-Bromofluorobenzene (Surr)	94		80 - 120		08/18/22 09:21	1
Dibromofluoromethane (Surr)	98		80 - 120		08/18/22 09:21	1
Toluene-d8 (Surr)	103		80 - 120		08/18/22 09:21	1

Lab Sample ID: LCS 580-400936/3
Matrix: Water
Analysis Batch: 400936

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	5.48		ug/L		110	69 - 127
1,1,1-Trichloroethane	5.00	4.90		ug/L		98	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.38		ug/L		108	67 - 136
1,1,2-Trichloroethane	5.00	5.01		ug/L		100	73 - 127
1,1-Dichloroethane	5.00	4.98		ug/L		100	74 - 120
1,1-Dichloroethene	5.00	4.41		ug/L		88	60 - 129
1,2,3-Trichloropropane	5.00	5.55		ug/L		111	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.52		ug/L		110	55 - 135
1,2-Dibromoethane	5.00	5.42		ug/L		108	61 - 143
1,2-Dichlorobenzene	5.00	5.74		ug/L		115	72 - 129
1,2-Dichloroethane	5.00	4.82		ug/L		96	74 - 127
1,2-Dichloropropane	5.00	4.90		ug/L		98	69 - 130
1,4-Dichlorobenzene	5.00	5.39		ug/L		108	71 - 129
2-Butanone	25.0	21.1		ug/L		85	37 - 150
2-Hexanone	25.0	25.9		ug/L		104	56 - 150
4-Methyl-2-pentanone	25.0	24.6		ug/L		98	63 - 137
Acetone	25.0	25.9		ug/L		104	49 - 150
Acrylonitrile	50.0	44.1		ug/L		88	50 - 145
Benzene	5.00	5.23		ug/L		105	80 - 120
Bromochloromethane	5.00	5.17		ug/L		103	79 - 121
Bromodichloromethane	5.00	5.25		ug/L		105	74 - 131
Bromoform	5.00	5.45		ug/L		109	48 - 127
Bromomethane	5.00	4.47		ug/L		89	51 - 148
Carbon disulfide	5.00	4.48		ug/L		90	54 - 142
Carbon tetrachloride	5.00	4.84		ug/L		97	66 - 130
Chlorobenzene	5.00	5.42		ug/L		108	74 - 123
Chloroethane	5.00	4.76		ug/L		95	54 - 140
Chloroform	5.00	5.00		ug/L		100	75 - 120
Chloromethane	5.00	4.71		ug/L		94	32 - 150
cis-1,2-Dichloroethene	5.00	4.96		ug/L		99	72 - 120
cis-1,3-Dichloropropene	5.00	5.32		ug/L		106	77 - 131
Dibromochloromethane	5.00	5.42		ug/L		108	62 - 141
Dibromomethane	5.00	4.75		ug/L		95	65 - 141
Ethylbenzene	5.00	5.47		ug/L		109	80 - 124
m,p-Xylene	5.00	5.41		ug/L		108	75 - 124
Methyl iodide	5.00	4.63		ug/L		93	60 - 128
Methylene Chloride	5.00	4.56	J	ug/L		91	40 - 142
o-Xylene	5.00	5.56		ug/L		111	71 - 124

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

Lab Sample ID: LCS 580-400936/3
Matrix: Water
Analysis Batch: 400936

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Styrene	5.00	5.15		ug/L		103	74 - 127
Tetrachloroethene	5.00	5.04		ug/L		101	75 - 124
Toluene	5.00	5.41		ug/L		108	80 - 126
trans-1,2-Dichloroethene	5.00	4.55		ug/L		91	69 - 121
trans-1,3-Dichloropropene	5.00	5.48		ug/L		110	71 - 138
trans-1,4-Dichloro-2-butene	5.00	3.44		ug/L		69	20 - 150
Trichloroethene	5.00	4.59		ug/L		92	72 - 120
Trichlorofluoromethane	5.00	4.69		ug/L		94	60 - 132
Vinyl chloride	5.00	4.95		ug/L		99	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCSD 580-400936/4
Matrix: Water
Analysis Batch: 400936

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	5.34		ug/L		107	69 - 127	2	22
1,1,1-Trichloroethane	5.00	4.98		ug/L		100	70 - 121	2	24
1,1,2,2-Tetrachloroethane	5.00	5.43		ug/L		109	67 - 136	1	24
1,1,2-Trichloroethane	5.00	5.01		ug/L		100	73 - 127	0	22
1,1-Dichloroethane	5.00	4.95		ug/L		99	74 - 120	1	26
1,1-Dichloroethene	5.00	4.53		ug/L		91	60 - 129	3	29
1,2,3-Trichloropropane	5.00	5.51		ug/L		110	67 - 135	1	25
1,2-Dibromo-3-Chloropropane	5.00	5.29		ug/L		106	55 - 135	4	29
1,2-Dibromoethane	5.00	5.27		ug/L		105	61 - 143	3	22
1,2-Dichlorobenzene	5.00	5.73		ug/L		115	72 - 129	0	22
1,2-Dichloroethane	5.00	5.22		ug/L		104	74 - 127	8	21
1,2-Dichloropropane	5.00	4.92		ug/L		98	69 - 130	0	22
1,4-Dichlorobenzene	5.00	5.24		ug/L		105	71 - 129	3	22
2-Butanone	25.0	18.6		ug/L		75	37 - 150	13	35
2-Hexanone	25.0	21.4		ug/L		86	56 - 150	19	29
4-Methyl-2-pentanone	25.0	24.9		ug/L		100	63 - 137	1	26
Acetone	25.0	23.5		ug/L		94	49 - 150	10	24
Acrylonitrile	50.0	43.9		ug/L		88	50 - 145	0	33
Benzene	5.00	5.20		ug/L		104	80 - 120	0	22
Bromochloromethane	5.00	5.00		ug/L		100	79 - 121	3	20
Bromodichloromethane	5.00	5.33		ug/L		107	74 - 131	2	21
Bromoform	5.00	5.33		ug/L		107	48 - 127	2	23
Bromomethane	5.00	4.37		ug/L		87	51 - 148	2	35
Carbon disulfide	5.00	4.60		ug/L		92	54 - 142	2	34
Carbon tetrachloride	5.00	4.89		ug/L		98	66 - 130	1	24
Chlorobenzene	5.00	5.28		ug/L		106	74 - 123	3	21
Chloroethane	5.00	4.61		ug/L		92	54 - 140	3	33

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

Lab Sample ID: LCSD 580-400936/4
Matrix: Water
Analysis Batch: 400936

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
Chloroform			5.00	4.92		ug/L		98	75 - 120	2	21
Chloromethane			5.00	4.34		ug/L		87	32 - 150	8	33
cis-1,2-Dichloroethene			5.00	4.67		ug/L		93	72 - 120	6	22
cis-1,3-Dichloropropene			5.00	5.13		ug/L		103	77 - 131	4	24
Dibromochloromethane			5.00	5.44		ug/L		109	62 - 141	0	22
Dibromomethane			5.00	4.86		ug/L		97	65 - 141	2	22
Ethylbenzene			5.00	5.40		ug/L		108	80 - 124	1	22
m,p-Xylene			5.00	5.31		ug/L		106	75 - 124	2	22
Methyl iodide			5.00	4.56		ug/L		91	60 - 128	2	39
Methylene Chloride			5.00	4.48	J	ug/L		90	40 - 142	2	25
o-Xylene			5.00	5.44		ug/L		109	71 - 124	2	23
Styrene			5.00	5.09		ug/L		102	74 - 127	1	22
Tetrachloroethene			5.00	5.03		ug/L		101	75 - 124	0	20
Toluene			5.00	5.38		ug/L		108	80 - 126	1	20
trans-1,2-Dichloroethene			5.00	4.70		ug/L		94	69 - 121	3	27
trans-1,3-Dichloropropene			5.00	5.37		ug/L		107	71 - 138	2	26
trans-1,4-Dichloro-2-butene			5.00	3.43		ug/L		69	20 - 150	0	35
Trichloroethene			5.00	4.41		ug/L		88	72 - 120	4	22
Trichlorofluoromethane			5.00	4.68		ug/L		94	60 - 132	0	32
Vinyl chloride			5.00	4.86		ug/L		97	41 - 150	2	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-401293/6
Matrix: Water
Analysis Batch: 401293

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		0.30		ug/L			08/21/22 16:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			08/21/22 16:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			08/21/22 16:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			08/21/22 16:57	1
1,1-Dichloroethane	ND		0.20		ug/L			08/21/22 16:57	1
1,1-Dichloroethene	ND		0.20		ug/L			08/21/22 16:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			08/21/22 16:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			08/21/22 16:57	1
1,2-Dibromoethane	ND		0.10		ug/L			08/21/22 16:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			08/21/22 16:57	1
1,2-Dichloroethane	ND		0.20		ug/L			08/21/22 16:57	1
1,2-Dichloropropane	ND		0.20		ug/L			08/21/22 16:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			08/21/22 16:57	1
2-Butanone	ND		10		ug/L			08/21/22 16:57	1
2-Hexanone	ND		3.0		ug/L			08/21/22 16:57	1
4-Methyl-2-pentanone	ND		10		ug/L			08/21/22 16:57	1

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

Lab Sample ID: MB 580-401293/6
Matrix: Water
Analysis Batch: 401293

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			08/21/22 16:57	1
Acrylonitrile	ND		10		ug/L			08/21/22 16:57	1
Benzene	ND		0.20		ug/L			08/21/22 16:57	1
Bromochloromethane	ND		0.20		ug/L			08/21/22 16:57	1
Bromodichloromethane	ND		0.20		ug/L			08/21/22 16:57	1
Bromoform	ND		0.50		ug/L			08/21/22 16:57	1
Bromomethane	ND		0.50		ug/L			08/21/22 16:57	1
Carbon disulfide	ND		0.30		ug/L			08/21/22 16:57	1
Carbon tetrachloride	ND		0.20		ug/L			08/21/22 16:57	1
Chlorobenzene	ND		0.20		ug/L			08/21/22 16:57	1
Chloroethane	ND		0.50		ug/L			08/21/22 16:57	1
Chloroform	ND		0.20		ug/L			08/21/22 16:57	1
Chloromethane	ND		0.50		ug/L			08/21/22 16:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			08/21/22 16:57	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			08/21/22 16:57	1
Dibromochloromethane	ND		0.20		ug/L			08/21/22 16:57	1
Dibromomethane	ND		0.20		ug/L			08/21/22 16:57	1
Ethylbenzene	ND		0.20		ug/L			08/21/22 16:57	1
m,p-Xylene	ND		0.50		ug/L			08/21/22 16:57	1
Methyl iodide	ND		0.50		ug/L			08/21/22 16:57	1
Methylene Chloride	ND		5.0		ug/L			08/21/22 16:57	1
o-Xylene	ND		0.50		ug/L			08/21/22 16:57	1
Styrene	ND		1.0		ug/L			08/21/22 16:57	1
Tetrachloroethene	ND		0.50		ug/L			08/21/22 16:57	1
Toluene	ND		0.20		ug/L			08/21/22 16:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			08/21/22 16:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			08/21/22 16:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			08/21/22 16:57	1
Trichloroethene	ND		0.20		ug/L			08/21/22 16:57	1
Trichlorofluoromethane	ND		0.50		ug/L			08/21/22 16:57	1
Vinyl acetate	ND		2.0		ug/L			08/21/22 16:57	1
Vinyl chloride	ND		0.020		ug/L			08/21/22 16:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*08/21/22 16:57*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/21/22 16:57*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*08/21/22 16:57*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/21/22 16:57*	*1*

Lab Sample ID: LCS 580-401293/3
Matrix: Water
Analysis Batch: 401293

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	5.21		ug/L		104	69 - 127
1,1,1-Trichloroethane	5.00	4.91		ug/L		98	70 - 121
1,1,2,2-Tetrachloroethane	5.00	4.76		ug/L		95	67 - 136
1,1,2-Trichloroethane	5.00	5.04		ug/L		101	73 - 127

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

Lab Sample ID: LCS 580-401293/3
Matrix: Water
Analysis Batch: 401293

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	5.00	4.54		ug/L		91	74 - 120
1,1-Dichloroethene	5.00	4.82		ug/L		96	60 - 129
1,2,3-Trichloropropane	5.00	5.05		ug/L		101	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.18		ug/L		104	55 - 135
1,2-Dibromoethane	5.00	5.11		ug/L		102	61 - 143
1,2-Dichlorobenzene	5.00	5.55		ug/L		111	72 - 129
1,2-Dichloroethane	5.00	4.77		ug/L		95	74 - 127
1,2-Dichloropropane	5.00	4.78		ug/L		96	69 - 130
1,4-Dichlorobenzene	5.00	5.14		ug/L		103	71 - 129
2-Butanone	25.0	26.2		ug/L		105	37 - 150
2-Hexanone	25.0	25.6		ug/L		102	56 - 150
4-Methyl-2-pentanone	25.0	24.4		ug/L		98	63 - 137
Acetone	25.0	27.2		ug/L		109	49 - 150
Acrylonitrile	50.0	53.7		ug/L		107	50 - 145
Benzene	5.00	5.25		ug/L		105	80 - 120
Bromochloromethane	5.00	5.16		ug/L		103	79 - 121
Bromodichloromethane	5.00	5.29		ug/L		106	74 - 131
Bromoform	5.00	6.18		ug/L		124	48 - 127
Bromomethane	5.00	4.23		ug/L		85	51 - 148
Carbon disulfide	5.00	5.63		ug/L		113	54 - 142
Carbon tetrachloride	5.00	5.01		ug/L		100	66 - 130
Chlorobenzene	5.00	4.89		ug/L		98	74 - 123
Chloroethane	5.00	4.14		ug/L		83	54 - 140
Chloroform	5.00	4.87		ug/L		97	75 - 120
Chloromethane	5.00	5.15		ug/L		103	32 - 150
cis-1,2-Dichloroethene	5.00	5.23		ug/L		105	72 - 120
cis-1,3-Dichloropropene	5.00	4.78		ug/L		96	77 - 131
Dibromochloromethane	5.00	5.60		ug/L		112	62 - 141
Dibromomethane	5.00	5.61		ug/L		112	65 - 141
Ethylbenzene	5.00	5.56		ug/L		111	80 - 124
m,p-Xylene	5.00	5.31		ug/L		106	75 - 124
Methyl iodide	5.00	4.54		ug/L		91	60 - 128
Methylene Chloride	5.00	5.19		ug/L		104	40 - 142
o-Xylene	5.00	5.02		ug/L		100	71 - 124
Styrene	5.00	5.75		ug/L		115	74 - 127
Tetrachloroethene	5.00	4.94		ug/L		99	75 - 124
Toluene	5.00	4.79		ug/L		96	80 - 126
trans-1,2-Dichloroethene	5.00	5.11		ug/L		102	69 - 121
trans-1,3-Dichloropropene	5.00	4.99		ug/L		100	71 - 138
trans-1,4-Dichloro-2-butene	5.00	4.72		ug/L		94	20 - 150
Trichloroethene	5.00	5.21		ug/L		104	72 - 120
Trichlorofluoromethane	5.00	4.80		ug/L		96	60 - 132
Vinyl acetate	12.5	12.4		ug/L		99	38 - 150
Vinyl chloride	5.00	4.74		ug/L		95	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*

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

Lab Sample ID: LCS 580-401293/3
Matrix: Water
Analysis Batch: 401293

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 580-401293/4
Matrix: Water
Analysis Batch: 401293

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	5.18		ug/L		104	69 - 127	1	22
1,1,1-Trichloroethane			5.00	4.82		ug/L		96	70 - 121	2	24
1,1,2,2-Tetrachloroethane			5.00	4.88		ug/L		98	67 - 136	3	24
1,1,2-Trichloroethane			5.00	5.07		ug/L		101	73 - 127	1	22
1,1-Dichloroethane			5.00	4.52		ug/L		90	74 - 120	0	26
1,1-Dichloroethene			5.00	4.62		ug/L		92	60 - 129	4	29
1,2,3-Trichloropropane			5.00	5.12		ug/L		102	67 - 135	1	25
1,2-Dibromo-3-Chloropropane			5.00	5.07		ug/L		101	55 - 135	2	29
1,2-Dibromoethane			5.00	5.10		ug/L		102	61 - 143	0	22
1,2-Dichlorobenzene			5.00	5.65		ug/L		113	72 - 129	2	22
1,2-Dichloroethane			5.00	4.70		ug/L		94	74 - 127	1	21
1,2-Dichloropropane			5.00	4.75		ug/L		95	69 - 130	1	22
1,4-Dichlorobenzene			5.00	5.24		ug/L		105	71 - 129	2	22
2-Butanone			25.0	25.3		ug/L		101	37 - 150	3	35
2-Hexanone			25.0	25.0		ug/L		100	56 - 150	2	29
4-Methyl-2-pentanone			25.0	24.1		ug/L		96	63 - 137	1	26
Acetone			25.0	24.4		ug/L		97	49 - 150	11	24
Acrylonitrile			50.0	51.4		ug/L		103	50 - 145	4	33
Benzene			5.00	5.19		ug/L		104	80 - 120	1	22
Bromochloromethane			5.00	5.12		ug/L		102	79 - 121	1	20
Bromodichloromethane			5.00	5.24		ug/L		105	74 - 131	1	21
Bromoform			5.00	6.10		ug/L		122	48 - 127	1	23
Bromomethane			5.00	4.18		ug/L		84	51 - 148	1	35
Carbon disulfide			5.00	5.50		ug/L		110	54 - 142	2	34
Carbon tetrachloride			5.00	4.90		ug/L		98	66 - 130	2	24
Chlorobenzene			5.00	4.91		ug/L		98	74 - 123	0	21
Chloroethane			5.00	4.01		ug/L		80	54 - 140	3	33
Chloroform			5.00	4.81		ug/L		96	75 - 120	1	21
Chloromethane			5.00	5.02		ug/L		100	32 - 150	3	33
cis-1,2-Dichloroethene			5.00	5.23		ug/L		105	72 - 120	0	22
cis-1,3-Dichloropropene			5.00	4.89		ug/L		98	77 - 131	2	24
Dibromochloromethane			5.00	5.56		ug/L		111	62 - 141	1	22
Dibromomethane			5.00	5.49		ug/L		110	65 - 141	2	22
Ethylbenzene			5.00	5.65		ug/L		113	80 - 124	2	22
m,p-Xylene			5.00	5.38		ug/L		108	75 - 124	1	22
Methyl iodide			5.00	4.39		ug/L		88	60 - 128	3	39
Methylene Chloride			5.00	5.10		ug/L		102	40 - 142	2	25
o-Xylene			5.00	5.08		ug/L		102	71 - 124	1	23
Styrene			5.00	5.76		ug/L		115	74 - 127	0	22
Tetrachloroethene			5.00	4.96		ug/L		99	75 - 124	0	20

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

Lab Sample ID: LCSD 580-401293/4
Matrix: Water
Analysis Batch: 401293

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
Toluene			5.00	4.86		ug/L		97	80 - 126	1	20
trans-1,2-Dichloroethene			5.00	5.02		ug/L		100	69 - 121	2	27
trans-1,3-Dichloropropene			5.00	5.06		ug/L		101	71 - 138	1	26
trans-1,4-Dichloro-2-butene			5.00	4.75		ug/L		95	20 - 150	1	35
Trichloroethene			5.00	5.18		ug/L		104	72 - 120	1	22
Trichlorofluoromethane			5.00	4.70		ug/L		94	60 - 132	2	32
Vinyl acetate			12.5	12.7		ug/L		102	38 - 150	3	35
Vinyl chloride			5.00	4.56		ug/L		91	41 - 150	4	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-401085/24-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		08/18/22 17:29	08/19/22 16:44	1
Iron	ND		0.30		mg/L		08/18/22 17:29	08/19/22 16:44	1
Magnesium	ND		0.50		mg/L		08/18/22 17:29	08/19/22 16:44	1
Manganese	ND		0.020		mg/L		08/18/22 17:29	08/19/22 16:44	1
Potassium	ND		3.3		mg/L		08/18/22 17:29	08/19/22 16:44	1
Sodium	ND		0.50		mg/L		08/18/22 17:29	08/19/22 16:44	1

Lab Sample ID: LCS 580-401085/25-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium			20.0	20.7		mg/L		103	80 - 120		
Iron			20.0	22.7		mg/L		114	80 - 120		
Magnesium			20.0	21.1		mg/L		105	80 - 120		
Manganese			1.00	1.05		mg/L		105	80 - 120		
Potassium			20.0	21.1		mg/L		106	80 - 120		
Sodium			20.0	18.6		mg/L		93	80 - 120		

Lab Sample ID: LCSD 580-401085/26-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 401085

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			20.0	22.3		mg/L		111	80 - 120	2	20
Magnesium			20.0	20.9		mg/L		105	80 - 120	1	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-401085/26-A
Matrix: Water
Analysis Batch: 401352

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	1.00	1.04		mg/L		104	80 - 120	1	20
Potassium	20.0	20.9		mg/L		104	80 - 120	1	20
Sodium	20.0	18.5		mg/L		93	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-401085/24-A
Matrix: Water
Analysis Batch: 401486

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 12:33	1
Arsenic	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 12:33	1
Barium	ND		0.0012		mg/L		08/18/22 17:29	08/19/22 12:33	1
Beryllium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Cadmium	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Chromium	ND		0.00080		mg/L		08/18/22 17:29	08/19/22 12:33	1
Cobalt	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Copper	ND		0.0020		mg/L		08/18/22 17:29	08/19/22 12:33	1
Lead	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Nickel	ND		0.0030		mg/L		08/18/22 17:29	08/19/22 12:33	1
Selenium	ND		0.0080		mg/L		08/18/22 17:29	08/19/22 12:33	1
Silver	ND		0.00040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Thallium	ND		0.0010		mg/L		08/18/22 17:29	08/19/22 12:33	1
Vanadium	ND		0.0040		mg/L		08/18/22 17:29	08/19/22 12:33	1
Zinc	ND		0.0070		mg/L		08/18/22 17:29	08/19/22 12:33	1

Lab Sample ID: LCS 580-401085/25-A
Matrix: Water
Analysis Batch: 401486

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.06		mg/L		106	80 - 120
Arsenic	1.00	1.05		mg/L		105	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Beryllium	1.00	1.05		mg/L		105	80 - 120
Cadmium	1.00	1.05		mg/L		105	80 - 120
Chromium	1.00	1.08		mg/L		108	80 - 120
Cobalt	1.00	1.07		mg/L		107	80 - 120
Copper	1.00	1.06		mg/L		106	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Nickel	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	0.993		mg/L		99	80 - 120
Silver	1.00	1.04		mg/L		104	80 - 120
Thallium	1.00	1.09		mg/L		109	80 - 120
Vanadium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.04		mg/L		104	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-401085/26-A
Matrix: Water
Analysis Batch: 401486

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 401085

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony			1.00	1.07		mg/L		107	80 - 120	1	20
Arsenic			1.00	1.05		mg/L		105	80 - 120	1	20
Barium			1.00	1.05		mg/L		105	80 - 120	1	20
Beryllium			1.00	1.05		mg/L		105	80 - 120	0	20
Cadmium			1.00	1.06		mg/L		106	80 - 120	1	20
Chromium			1.00	1.09		mg/L		109	80 - 120	1	20
Cobalt			1.00	1.08		mg/L		108	80 - 120	1	20
Copper			1.00	1.07		mg/L		107	80 - 120	0	20
Lead			1.00	1.09		mg/L		109	80 - 120	2	20
Nickel			1.00	1.08		mg/L		108	80 - 120	2	20
Selenium			1.00	1.06		mg/L		106	80 - 120	6	20
Silver			1.00	1.07		mg/L		107	80 - 120	3	20
Thallium			1.00	1.10		mg/L		110	80 - 120	0	20
Vanadium			1.00	1.09		mg/L		109	80 - 120	1	20
Zinc			1.00	1.09		mg/L		109	80 - 120	5	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-400311/51
Matrix: Water
Analysis Batch: 400311

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			08/10/22 19:02	1
Chloride	ND		1.5		mg/L			08/10/22 19:02	1
Sulfate	ND		1.5		mg/L			08/10/22 19:02	1

Lab Sample ID: LCS 580-400311/52
Matrix: Water
Analysis Batch: 400311

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	4.61		mg/L		92	90 - 110		
Chloride			50.0	52.7		mg/L		105	90 - 110		
Sulfate			50.0	53.9		mg/L		108	90 - 110		

Lab Sample ID: LCSD 580-400311/53
Matrix: Water
Analysis Batch: 400311

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	4.66		mg/L		93	90 - 110	1	15
Chloride			50.0	52.7		mg/L		105	90 - 110	0	15
Sulfate			50.0	53.9		mg/L		108	90 - 110	0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-116817-3 MS
Matrix: Water
Analysis Batch: 400311

Client Sample ID: 0822-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	ND		5.00	4.72		mg/L		94	90 - 110
Chloride	54		50.0	99.3		mg/L		91	90 - 110
Sulfate	48		50.0	99.7		mg/L		103	90 - 110

Lab Sample ID: 580-116817-3 MSD
Matrix: Water
Analysis Batch: 400311

Client Sample ID: 0822-12
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	4.79		mg/L		96	90 - 110	1	15
Chloride	54		50.0	99.2		mg/L		91	90 - 110	0	15
Sulfate	48		50.0	99.8		mg/L		103	90 - 110	0	15

Lab Sample ID: MB 580-400317/3
Matrix: Water
Analysis Batch: 400317

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			08/10/22 19:02	1

Lab Sample ID: LCS 580-400317/4
Matrix: Water
Analysis Batch: 400317

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	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 580-400317/5
Matrix: Water
Analysis Batch: 400317

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	10.0	10.1		mg/L		101	90 - 110	0	15

Lab Sample ID: 580-116817-3 MS
Matrix: Water
Analysis Batch: 400317

Client Sample ID: 0822-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.8	F1	10.0	10.5	F1	mg/L		88	90 - 110

Lab Sample ID: 580-116817-3 MSD
Matrix: Water
Analysis Batch: 400317

Client Sample ID: 0822-12
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	1.8	F1	10.0	10.5	F1	mg/L		88	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-400481/1-A
Matrix: Water
Analysis Batch: 400490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		08/13/22 16:23	08/13/22 21:49	1

Lab Sample ID: LCS 580-400481/2-A
Matrix: Water
Analysis Batch: 400490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400481

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.00	1.96		mg/L		98	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-400483/2
Matrix: Water
Analysis Batch: 400483

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	85 - 115

Lab Sample ID: LCSD 580-400483/3
Matrix: Water
Analysis Batch: 400483

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
Alkalinity	100	106		mg/L		106	85 - 115	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 580-400640/1
Matrix: Water
Analysis Batch: 400640

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			08/15/22 17:08	1

Lab Sample ID: LCS 580-400640/2
Matrix: Water
Analysis Batch: 400640

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	894		mg/L		89	80 - 120

Lab Sample ID: 580-116817-1 DU
Matrix: Water
Analysis Batch: 400640

Client Sample ID: 0822-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1300		1260		mg/L		0.6	20

Method: SM 5220D - COD

Lab Sample ID: MB 580-400444/3-A
Matrix: Water
Analysis Batch: 400467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 400444

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10		mg/L		08/12/22 16:55	08/12/22 22:11	1

Lab Sample ID: LCS 580-400444/4-A
Matrix: Water
Analysis Batch: 400467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 400444

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chemical Oxygen Demand			75.0	71.7		mg/L		96	80 - 120		

Lab Sample ID: LCSD 580-400444/5-A
Matrix: Water
Analysis Batch: 400467

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 400444

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand			75.0	74.7		mg/L		100	80 - 120	4	20

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-257363/62
Matrix: Water
Analysis Batch: 257363

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			08/17/22 09:12	1

Lab Sample ID: LCS 570-257363/63
Matrix: Water
Analysis Batch: 257363

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbon, Total Organic			5.03	4.97		mg/L		99	85 - 115		

Lab Sample ID: LCSD 570-257363/64
Matrix: Water
Analysis Batch: 257363

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic			5.03	4.94		mg/L		98	85 - 115	1	20

Lab Chronicle

Client: SCS Engineers
Job ID: 580-116817-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-10
Date Collected: 08/09/22 10:41
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 15:04
Total/NA	Analysis	8260D	DL	5	401293	JBT	EET SEA	08/21/22 22:43
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:42
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:37
Total/NA	Analysis	300.0		1	400311	JHR	EET SEA	08/10/22 19:38
Total/NA	Analysis	300.0		1	400317	JHR	EET SEA	08/10/22 19:38
Total/NA	Analysis	300.0		10	400311	JHR	EET SEA	08/10/22 20:36
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400483	MLT	EET SEA	08/13/22 20:16
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257363	UAPD	EET CAL 4	08/17/22 21:05

Client Sample ID: 0822-11
Date Collected: 08/09/22 11:40
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	401293	JBT	EET SEA	08/21/22 21:53
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:46
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:41
Total/NA	Analysis	300.0		1	400311	JHR	EET SEA	08/10/22 19:49
Total/NA	Analysis	300.0		1	400317	JHR	EET SEA	08/10/22 19:49
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400483	MLT	EET SEA	08/13/22 20:16
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257363	UAPD	EET CAL 4	08/17/22 21:29

Client Sample ID: 0822-12
Date Collected: 08/09/22 12:15
Date Received: 08/10/22 10:42

Lab Sample ID: 580-116817-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	401293	JBT	EET SEA	08/21/22 22:18

Lab Chronicle

Client: SCS Engineers
Job ID: 580-116817-1
Project/Site: Coupeville SW Facility GW Q3 2022

Client Sample ID: 0822-12
Lab Sample ID: 580-116817-3
Date Collected: 08/09/22 12:15
Matrix: Water
Date Received: 08/10/22 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Dissolved	Analysis	6010D		1	401352	JLS	EET SEA	08/19/22 17:49
Total Recoverable	Prep	3005A			401085	NJ	EET SEA	08/18/22 17:29
Total Recoverable	Analysis	6020B		1	401486	FCW	EET SEA	08/19/22 13:48
Total/NA	Analysis	300.0		1	400311	JHR	EET SEA	08/10/22 20:01
Total/NA	Analysis	300.0		1	400317	JHR	EET SEA	08/10/22 20:01
Total/NA	Prep	Distill/Ammonia			400481	MLT	EET SEA	08/13/22 16:23
Total/NA	Analysis	350.1		1	400490	MLT	EET SEA	08/13/22 21:49
Total/NA	Analysis	SM 2320B		1	400483	MLT	EET SEA	08/13/22 20:16
Total/NA	Analysis	SM 2540C		1	400640	NJ	EET SEA	08/15/22 17:08
Total/NA	Prep	SM 5220			400444	MLT	EET SEA	08/12/22 16:55
Total/NA	Analysis	SM 5220D		1	400467	MLT	EET SEA	08/12/22 22:11
Total/NA	Analysis	SM 5310D		1	257363	UAPD	EET CAL 4	08/17/22 21:52

Client Sample ID: Trip Blank
Lab Sample ID: 580-116817-4
Date Collected: 08/09/22 00:01
Matrix: Water
Date Received: 08/10/22 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	400936	JBT	EET SEA	08/18/22 10:58
Total/NA	Analysis	8260D	RA	1	401293	JBT	EET SEA	08/21/22 17:46

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-116817-1
Project/Site: Coupeville SW Facility GW Q3 2022

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
SM 2320B		Water	Alkalinity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3
SM 2540C		Water	Total Dissolved Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-22
California	SCAQMD LAP	17LA0919	12-01-22
California	State	3082	07-31-23
Nevada	State	CA00111	08-31-22
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q3 2022

Job ID: 580-116817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-116817-1	0822-10	Water	08/09/22 10:41	08/10/22 10:42
580-116817-2	0822-11	Water	08/09/22 11:40	08/10/22 10:42
580-116817-3	0822-12	Water	08/09/22 12:15	08/10/22 10:42
580-116817-4	Trip Blank	Water	08/09/22 00:01	08/10/22 10:42

Eurofins Environmental Testing Northwest, LLC
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Sam G	Lab PM: Tracy Dutton	Carrier Tracking No(s):	COC No:
Client Contact: Sam Gruber	Phone: 425-766-3362	E-Mail:	State of Origin: WA	Page: Page 1 of 1
Company: SCS	PWSID:			Job #: 04222010.04
Address: 2405 140th Ave NE #107	Due Date Requested: Standard			
City: Bellevue	TAT Requested (days):			
State, Zip: WA 98005	Compliance Project: Δ Yes Δ No			
Phone: 425-766-3362	PO #: Purchase Order not required			
Email: SGruber@SCSengineers.com	WO #:			
Project Name: CSWF	Project #:			
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)	Total Metals	Dissolved Metals	Cl, Fluoride, Sulfate	Ammonia	TOC	COD	Nitrate, Nitrite (300.0)	Alkalinity	TDS	Carbonate / bicarbonate	VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:																
0822-10	8/9/22	1041	G	W	Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-11	↓	1140	↓	↓	Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
0822-12	↓	1215	↓	↓	Y	N	X	X	X	X	X	X	X	X	X	X	X	10	
Trip blank	↓	—	—	↓	N	N											X	2	

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:

580-116817 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
1	[signature]	8/10/22 1042	SCS	Sydney Lanhoff	8/10/22 1042	EVI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:		

Therm. ID: AB Cor: 4.4 °C Unc: 0.3 °C
Cooler Dsc: ☐
Packing: Bub
Cust. Seal: Yes ☐ No ☑
Blue Ice, Wet, Dry, None

FedEx: ☐
UPS: ☐
Lab Cour: ☑
Other: ☐

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424
Phone 253-922-2310

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dutton, Tracy L	Carrier Tracking No(s):	COC No: 580-107747 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Tracy Dutton@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-116817-1
Address: 2841 Dow Avenue, Suite 100	Due Date Requested: 8/23/2022			
City: Tustin	TAT Requested (days):			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q3 2022	Project #: 58017834			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
0822-10 (580-116817-1)	8/9/22	10 41 Pacific		Water			X	1	
0822-11 (580-116817-2)	8/9/22	11 40 Pacific		Water			X	1	
0822-12 (580-116817-3)	8/9/22	12 15 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
	8/11/22 1247	EEN		8/12/22 0950	ET
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.	07/10 IR SC11

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-116817-1

Login Number: 116817
List Number: 1
Creator: Presley, Kim A

List Source: Eurofins 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.	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	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-116817-1

Login Number: 116817
List Number: 2
Creator: Ornelas, Olga

List Source: Eurofins Calscience
List Creation: 08/12/22 01:33 PM

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.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
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	

FOURTH QTR. 2022 DATA VALIDATION REPORT – ISLAND CO. CSWF

Project Details

Project No.	04222010.05	**Site Name**	Island County Coupeville SWF
Data Validator	Jovany Estrada	**Data Level**	Level 2
Date	1/5/2023	**DV Tier**	Tier 1
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)
580-119368-1	No comments.	Eurofins TestAmerica, Seattle – Tacoma, WA

Analytical Summary

Sample Group	Analyses					
	Metals	Ns, COD	VOCs	Ions/TDS	Alk	TOC
580-119368-1	X	X	X	X	X	X

Notes:

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
GC/MS VOA	Acceptable	See case narrative for additional details.
Metals	Acceptable	See case narrative for additional details.
General Chemistry	Acceptable	See case narrative for additional details.
VOA Prep	Acceptable	See case narrative for additional details.

Field Quality Assurance Samples

Field QA Samples	Sample Group	Analytes	Notes
Field Replicates	580-119368-1	See below.	
Trip Blank	580-119368-1	None detected.	

Lab Quality Flags

Lab Qualifiers	Description	Lab Group
F1	MS and/or MSD Recovery is outside acceptance limits.	580-119368-1
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	580-119368-1
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.	580-112965-1

Field Duplicate Evaluation

Analyte	Units	N2D	N2D (Dup)	RPD (%)	N3D	N3D (Dup)	RPD (%)
Alkalinity	mg/L	430	440	2.29	260	260	0
Arsenic	mg/L	0.0032	0.0028	13.33	0.0074	0.0086	15
Barium	mg/L	0.027	0.026	3.77	0.029	0.031	6.66
Bicarbonate	mg/L	430	440	2.29	260	260	0
Calcium	mg/L	100	100	0	74	71	4.13
Chloride	mg/L	73	73	0	38	37	2.66
Chromium	mg/L	0.0008 U	0.0008 U	N/A	0.00096	0.0008 U	200
Iron	mg/L	0.18	0.1 U	200	0.19	0.3	44.89
Magnesium	mg/L	70	68	2.89	28	27	3.63
Manganese	mg/L	0.02 U	0.02 U	N/A	0.02 U	0.028	200
Nickel	mg/L	0.0044	0.0044	0	0.003 U	0.003 U	N/A
Nitrate/Nitrite, Total	mg/L	3.4	3.8	11.11	0.01 U	0.01 U	N/A
Potassium	mg/L	8.3	8.3	0	6.2	6.4	3.17
Sodium	mg/L	40	38	5.12	21	20	4.87
Sulfate	mg/L	71	70	1.41	26	25	3.92
Total Dissolved Solids	mg/L	720	800	10.52	600	640	6.45
Total Organic Carbon	mg/L	2.1	2.1	0	0.98	0.92	6.31
Trichlorofluoromethane	mg/L	0.75	0.79	5.19	0.5U	0.5 U	N/A
Vinyl chloride	mg/L	0.025	0.02 U	200	0.02 U	0.02 U	N/A

* RPD based on result as compared to the Reporting Limit (RL) for a non-detection in the compared sample

U = Result was not detected at or above a concentration greater than the RL. Value provided is the RL for the given sample.

N/A = Not applicable. Both results compared were non-detect.

Additional Data Flags

Flag	Description
U	Not detected above the method reporting limit.

Qualified Data and Usability

Lab qualifiers are noted. All data, as qualified, are acceptable for use.

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ANALYTICAL REPORT

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-119368-1
Client Project/Site: Coupeville SW Facility GW Q4 2022

For:
SCS Engineers
2405 140th Avenue NE
Suite 107
Bellevue, Washington 98005-1877

Attn: Jovany Estrada

Authorized for release by:
11/14/2022 3:54:32 PM

Katie Grant, Project Manager I
(253)922-2310
Katie.Grant@et.eurofinsus.com

LINKS

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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.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

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Job ID: 580-119368-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative
580-119368-1

Comments
No additional comments.

Receipt
The samples were received on 10/28/2022 7:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 3.6º C, 3.7º C, 4.9º C, 4.9º C, 5.4º C, 5.8º C and 5.8º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 1022-11 (580-119368-11). The container labels list 1022-03, while the COC lists 1022-11. The sampling date and time matches for -11. The only other sample with this same date and time is 1022-05 but those labels clearly said -05. It assumed that this other sample set belongs to -11 since there is nothing else that matches closer.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): 1022-14 (580-119368-14) and 1022-21 (580-119368-21). For sample 1022-14 it lists the sampling time on the COC as 0950 and on the container labels it says 0955. The COC time isn't fully legible however. This sample was logged in with 0950. For sample 1022-21, it lists the sampling time on the COC as 1050 and on the container it says 1135. This was also logged in per the COC.

GC/MS VOA
Method 8260D: The CCV for analytical batch 580-409021 recovered outside control limits for the following analyte(s): trans-1,4-Dichloro-2-butene has been identified as a poor performing analyte when analyzed using this method; therefore, re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The CCV for analytical batch 580-408952 recovered outside control limits for the following analyte(s): Vinyl acetate. Vinyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: 1022-05 (580-119368-5). Elevated reporting limits (RLs) are provided.

Method 8260D: The following sample was analyzed at an over dilution: 1022-10 (580-119368-10). Re-analysis was performed on instruments that did not having passing calibration curves for 2-Butanone, 2-Hexanone, and Acrylonitrile. No more volume remains for further re-analysis, therefore, results are reported from the dilution. 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
Method 6010D: The post digestion spike % recovery for Ca and Mg associated with batch 580-409550 was outside of control limits. The associated sample is: (580-119368-B-28-A PDS).

Method 6010D: The serial dilution performed for the following sample associated with batch 580-409550 was outside control limits for Ca, Mg, and Na: (580-119368-B-28-A SD ^5)

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

General Chemistry
Methods 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-408613 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-409485 and analytical batch

Job ID: 580-119368-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

580-409496 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

VOA Prep

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

Definitions/Glossary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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 exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-01
Date Collected: 10/25/22 15:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 02:55	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 02:55	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 02:55	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 02:55	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 02:55	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 16:27	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 02:55	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 02:55	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 02:55	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 02:55	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 02:55	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 02:55	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 02:55	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 02:55	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 02:55	1
Acetone	ND		10		ug/L			11/07/22 02:55	1
Benzene	ND		0.20		ug/L			11/07/22 02:55	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 02:55	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 02:55	1
Bromoform	ND		0.50		ug/L			11/07/22 02:55	1
Bromomethane	ND		0.50		ug/L			11/07/22 02:55	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 02:55	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 02:55	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 02:55	1
Chloroethane	ND		0.50		ug/L			11/07/22 02:55	1
Chloroform	ND		0.20		ug/L			11/07/22 02:55	1
Chloromethane	ND		0.50		ug/L			11/07/22 02:55	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 02:55	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 02:55	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 02:55	1
Dibromomethane	ND		0.20		ug/L			11/07/22 02:55	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 02:55	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 02:55	1
Methyl iodide	ND		0.50		ug/L			11/07/22 02:55	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 02:55	1
o-Xylene	ND		0.50		ug/L			11/07/22 02:55	1
Styrene	ND		1.0		ug/L			11/07/22 02:55	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 02:55	1
Toluene	ND		0.20		ug/L			11/07/22 02:55	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 02:55	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 02:55	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 02:55	1
Trichloroethene	ND		0.20		ug/L			11/07/22 02:55	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 02:55	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/07/22 16:27*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/07/22 16:27*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/07/22 16:27*	*1*

Client Sample ID: 1022-01

Date Collected: 10/25/22 15:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*		*11/07/22 16:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/07/22 02:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/07/22 02:55*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*11/07/22 02:55*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/07/22 02:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 13:25	1
2-Hexanone	ND		3.0		ug/L			11/04/22 13:25	1
Acrylonitrile	ND		10		ug/L			11/04/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/04/22 13:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/04/22 13:25*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/04/22 13:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/04/22 13:25*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**62**		0.50		mg/L		11/04/22 19:04	11/07/22 21:38	1
Iron	**0.41**		0.30		mg/L		11/04/22 19:04	11/07/22 21:38	1
Magnesium	**42**		0.50		mg/L		11/04/22 19:04	11/07/22 21:38	1
Manganese	**0.17**		0.020		mg/L		11/04/22 19:04	11/07/22 21:38	1
Potassium	**6.5**		3.3		mg/L		11/04/22 19:04	11/07/22 21:38	1
Sodium	**24**		0.50		mg/L		11/04/22 19:04	11/07/22 21:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:06	1
Arsenic	**0.0061**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:06	1
Barium	**0.027**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:06	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:06	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:06	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:06	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:06	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:06	1
Iron	**0.83**		0.10		mg/L		11/04/22 19:01	11/07/22 18:06	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:06	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:06	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:06	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:06	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:06	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:06	1
Zinc	**0.20**		0.0070		mg/L		11/04/22 19:01	11/07/22 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 19:51	1
Chloride (MCAWW 300.0)	**22**		1.5		mg/L			11/03/22 19:51	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-01
Lab Sample ID: 580-119368-1
Date Collected: 10/25/22 15:40
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**23**		1.5		mg/L			11/03/22 19:51	1
Ammonia (MCAWW 350.1)	ND	F1	0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:13	1
Carbon, Total Organic (SM 5310D)	**1.2**		0.50		mg/L			11/01/22 14:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**340**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**340**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**450**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-02

Date Collected: 10/25/22 13:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 03:19	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 03:19	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 03:19	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 03:19	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 03:19	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 16:51	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 03:19	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 03:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 03:19	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 03:19	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 03:19	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 03:19	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 03:19	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 03:19	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 03:19	1
Acetone	ND		10		ug/L			11/07/22 03:19	1
Benzene	ND		0.20		ug/L			11/07/22 03:19	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 03:19	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 03:19	1
Bromoform	ND		0.50		ug/L			11/07/22 03:19	1
Bromomethane	ND		0.50		ug/L			11/07/22 03:19	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 03:19	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 03:19	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 03:19	1
Chloroethane	ND		0.50		ug/L			11/07/22 03:19	1
Chloroform	ND		0.20		ug/L			11/07/22 03:19	1
Chloromethane	ND		0.50		ug/L			11/07/22 03:19	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 03:19	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 03:19	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 03:19	1
Dibromomethane	ND		0.20		ug/L			11/07/22 03:19	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 03:19	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 03:19	1
Methyl iodide	ND		0.50		ug/L			11/07/22 03:19	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 03:19	1
o-Xylene	ND		0.50		ug/L			11/07/22 03:19	1
Styrene	ND		1.0		ug/L			11/07/22 03:19	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 03:19	1
Toluene	ND		0.20		ug/L			11/07/22 03:19	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 03:19	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 03:19	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 03:19	1
Trichloroethene	ND		0.20		ug/L			11/07/22 03:19	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 03:19	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/07/22 16:51*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/07/22 16:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/07/22 16:51*	*1*

Client Sample ID: 1022-02
Date Collected: 10/25/22 13:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*11/07/22 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*11/07/22 03:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/07/22 03:19*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/07/22 03:19*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/07/22 03:19*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 13:47	1
2-Hexanone	ND		3.0		ug/L			11/04/22 13:47	1
Acrylonitrile	ND		10		ug/L			11/04/22 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*11/04/22 13:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/04/22 13:47*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/04/22 13:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/04/22 13:47*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**64**		0.50		mg/L		11/04/22 19:04	11/07/22 21:41	1
Iron	ND		0.30		mg/L		11/04/22 19:04	11/07/22 21:41	1
Magnesium	**39**		0.50		mg/L		11/04/22 19:04	11/07/22 21:41	1
Manganese	**0.30**		0.020		mg/L		11/04/22 19:04	11/07/22 21:41	1
Potassium	**6.4**		3.3		mg/L		11/04/22 19:04	11/07/22 21:41	1
Sodium	**24**		0.50		mg/L		11/04/22 19:04	11/07/22 21:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:09	1
Arsenic	**0.0063**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:09	1
Barium	**0.027**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:09	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:09	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:09	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:09	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:09	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:09	1
Iron	ND		0.10		mg/L		11/04/22 19:01	11/07/22 18:09	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:09	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:09	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:09	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:09	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:09	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:09	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 20:03	1
Chloride (MCAWW 300.0)	**34**		1.5		mg/L			11/03/22 20:03	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-02
Date Collected: 10/25/22 13:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**15**		1.5		mg/L			11/03/22 20:03	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:23	1
Carbon, Total Organic (SM 5310D)	**1.3**		0.50		mg/L			11/01/22 14:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**330**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**330**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**410**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-03
Date Collected: 10/25/22 14:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 03:44	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 03:44	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 03:44	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 03:44	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 03:44	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 17:17	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 03:44	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 03:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 03:44	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 03:44	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 03:44	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 03:44	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 03:44	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 03:44	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 03:44	1
Acetone	ND		10		ug/L			11/07/22 03:44	1
Benzene	ND		0.20		ug/L			11/07/22 03:44	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 03:44	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 03:44	1
Bromoform	ND		0.50		ug/L			11/07/22 03:44	1
Bromomethane	ND		0.50		ug/L			11/07/22 03:44	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 03:44	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 03:44	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 03:44	1
Chloroethane	ND		0.50		ug/L			11/07/22 03:44	1
Chloroform	ND		0.20		ug/L			11/07/22 03:44	1
Chloromethane	ND		0.50		ug/L			11/07/22 03:44	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 03:44	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 03:44	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 03:44	1
Dibromomethane	ND		0.20		ug/L			11/07/22 03:44	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 03:44	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 03:44	1
Methyl iodide	ND		0.50		ug/L			11/07/22 03:44	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 03:44	1
o-Xylene	ND		0.50		ug/L			11/07/22 03:44	1
Styrene	ND		1.0		ug/L			11/07/22 03:44	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 03:44	1
Toluene	ND		0.20		ug/L			11/07/22 03:44	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 03:44	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 03:44	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 03:44	1
Trichloroethene	ND		0.20		ug/L			11/07/22 03:44	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 03:44	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/07/22 17:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/07/22 17:17*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/07/22 17:17*	*1*

Client Sample ID: 1022-03
Date Collected: 10/25/22 14:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/07/22 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/07/22 03:44*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/07/22 03:44*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/07/22 03:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/07/22 03:44*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 14:08	1
2-Hexanone	ND		3.0		ug/L			11/04/22 14:08	1
Acrylonitrile	ND		10		ug/L			11/04/22 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/04/22 14:08*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/04/22 14:08*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*11/04/22 14:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/04/22 14:08*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**170**		0.50		mg/L		11/04/22 19:04	11/07/22 21:45	1
Iron	**2.1**		0.30		mg/L		11/04/22 19:04	11/07/22 21:45	1
Magnesium	**76**		0.50		mg/L		11/04/22 19:04	11/07/22 21:45	1
Manganese	**0.32**		0.020		mg/L		11/04/22 19:04	11/07/22 21:45	1
Potassium	**8.0**		3.3		mg/L		11/04/22 19:04	11/07/22 21:45	1
Sodium	**32**		0.50		mg/L		11/04/22 19:04	11/07/22 21:45	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:11	1
Arsenic	**0.0059**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:11	1
Barium	**0.075**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:11	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:11	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:11	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:11	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:11	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:11	1
Iron	**1.8**		0.10		mg/L		11/04/22 19:01	11/07/22 18:11	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:11	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:11	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:11	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:11	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:11	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:11	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/29/22 00:50	1
Chloride (MCAWW 300.0)	**23**		1.5		mg/L			10/29/22 00:50	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-03
Date Collected: 10/25/22 14:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-3
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**32**		1.5		mg/L			10/29/22 00:50	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:25	1
Carbon, Total Organic (SM 5310D)	**1.8**		0.50		mg/L			11/01/22 14:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**710**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**710**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**790**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-04
Date Collected: 10/27/22 10:30
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 17:07	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 17:07	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 17:07	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 17:07	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 17:07	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 17:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 17:07	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 17:07	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 17:07	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 17:07	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 17:07	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 17:07	1
2-Butanone	ND		10		ug/L			11/09/22 17:07	1
2-Hexanone	ND		3.0		ug/L			11/09/22 17:07	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 17:07	1
Acetone	ND		10		ug/L			11/09/22 17:07	1
Acrylonitrile	ND		10		ug/L			11/09/22 17:07	1
Benzene	ND		0.20		ug/L			11/09/22 17:07	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 17:07	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 17:07	1
Bromoform	ND		0.50		ug/L			11/09/22 17:07	1
Bromomethane	ND		0.50		ug/L			11/09/22 17:07	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 17:07	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 17:07	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 17:07	1
Chloroethane	ND		0.50		ug/L			11/09/22 17:07	1
Chloroform	ND		0.20		ug/L			11/09/22 17:07	1
Chloromethane	ND		0.50		ug/L			11/09/22 17:07	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 17:07	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 17:07	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 17:07	1
Dibromomethane	ND		0.20		ug/L			11/09/22 17:07	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 17:07	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 17:07	1
Methyl iodide	ND		0.50		ug/L			11/09/22 17:07	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 17:07	1
o-Xylene	ND		0.50		ug/L			11/09/22 17:07	1
Styrene	ND		1.0		ug/L			11/09/22 17:07	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 17:07	1
Toluene	ND		0.20		ug/L			11/09/22 17:07	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 17:07	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 17:07	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 17:07	1
Trichloroethene	ND		0.20		ug/L			11/09/22 17:07	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 17:07	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 17:07	1
Vinyl chloride	**0.035**		0.020		ug/L			11/09/22 17:07	1

Client Sample ID: 1022-04

Date Collected: 10/27/22 10:30
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-4

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*11/09/22 17:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/09/22 17:07*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*11/09/22 17:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 17:07*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65**		0.50		mg/L		11/04/22 19:04	11/07/22 21:48	1
Iron	**1.9**		0.30		mg/L		11/04/22 19:04	11/07/22 21:48	1
Magnesium	**33**		0.50		mg/L		11/04/22 19:04	11/07/22 21:48	1
Manganese	**0.58**		0.020		mg/L		11/04/22 19:04	11/07/22 21:48	1
Potassium	**5.9**		3.3		mg/L		11/04/22 19:04	11/07/22 21:48	1
Sodium	**31**		0.50		mg/L		11/04/22 19:04	11/07/22 21:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:13	1
Arsenic	**0.0019**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:13	1
Barium	**0.074**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:13	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:13	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:13	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:13	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:13	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:13	1
Iron	**1.8**		0.10		mg/L		11/04/22 19:01	11/07/22 18:13	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:13	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:13	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:13	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:13	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:13	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:13	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 21:31	1
Nitrate Nitrite as N (MCAWW 300.0)	ND		0.40		mg/L			10/28/22 21:31	1
Chloride (MCAWW 300.0)	**16**		1.5		mg/L			10/28/22 21:31	1
Sulfate (MCAWW 300.0)	**27**		1.5		mg/L			10/28/22 21:31	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Carbon, Total Organic (SM 5310D)	**1.4**		0.50		mg/L			11/01/22 15:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**330**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**330**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**680**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-05
Date Collected: 10/27/22 12:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		3.0		ug/L			11/09/22 20:24	10
1,1,1-Trichloroethane	ND		2.0		ug/L			11/09/22 20:24	10
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			11/09/22 20:24	10
1,1,2-Trichloroethane	ND		2.0		ug/L			11/09/22 20:24	10
1,1-Dichloroethane	**2.8**		2.0		ug/L			11/09/22 20:24	10
1,1-Dichloroethene	ND		2.0		ug/L			11/09/22 20:24	10
1,2,3-Trichloropropane	ND		2.0		ug/L			11/09/22 20:24	10
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			11/09/22 20:24	10
1,2-Dibromoethane	ND		1.0		ug/L			11/09/22 20:24	10
1,2-Dichlorobenzene	ND		3.0		ug/L			11/09/22 20:24	10
1,2-Dichloroethane	ND		2.0		ug/L			11/09/22 20:24	10
1,2-Dichloropropane	ND		2.0		ug/L			11/09/22 20:24	10
1,4-Dichlorobenzene	ND		3.0		ug/L			11/09/22 20:24	10
2-Butanone	ND		100		ug/L			11/09/22 20:24	10
2-Hexanone	ND		30		ug/L			11/09/22 20:24	10
4-Methyl-2-pentanone	ND		100		ug/L			11/09/22 20:24	10
Acetone	ND		100		ug/L			11/09/22 20:24	10
Acrylonitrile	ND		100		ug/L			11/09/22 20:24	10
Benzene	ND		2.0		ug/L			11/09/22 20:24	10
Bromochloromethane	ND		2.0		ug/L			11/09/22 20:24	10
Bromodichloromethane	ND		2.0		ug/L			11/09/22 20:24	10
Bromoform	ND		5.0		ug/L			11/09/22 20:24	10
Bromomethane	ND		5.0		ug/L			11/09/22 20:24	10
Carbon disulfide	ND		3.0		ug/L			11/09/22 20:24	10
Carbon tetrachloride	ND		2.0		ug/L			11/09/22 20:24	10
Chlorobenzene	ND		2.0		ug/L			11/09/22 20:24	10
Chloroethane	ND		5.0		ug/L			11/09/22 20:24	10
Chloroform	ND		2.0		ug/L			11/09/22 20:24	10
Chloromethane	ND		5.0		ug/L			11/09/22 20:24	10
cis-1,2-Dichloroethene	ND		2.0		ug/L			11/09/22 20:24	10
cis-1,3-Dichloropropene	ND		2.0		ug/L			11/09/22 20:24	10
Dibromochloromethane	ND		2.0		ug/L			11/09/22 20:24	10
Dibromomethane	ND		2.0		ug/L			11/09/22 20:24	10
Ethylbenzene	ND		2.0		ug/L			11/09/22 20:24	10
m,p-Xylene	ND		5.0		ug/L			11/09/22 20:24	10
Methyl iodide	ND		5.0		ug/L			11/09/22 20:24	10
Methylene Chloride	ND		50		ug/L			11/09/22 20:24	10
o-Xylene	ND		5.0		ug/L			11/09/22 20:24	10
Styrene	ND		10		ug/L			11/09/22 20:24	10
Tetrachloroethene	ND		5.0		ug/L			11/09/22 20:24	10
Toluene	ND		2.0		ug/L			11/09/22 20:24	10
trans-1,2-Dichloroethene	ND		2.0		ug/L			11/09/22 20:24	10
trans-1,3-Dichloropropene	ND		2.0		ug/L			11/09/22 20:24	10
trans-1,4-Dichloro-2-butene	ND		20		ug/L			11/09/22 20:24	10
Trichloroethene	ND		2.0		ug/L			11/09/22 20:24	10
Trichlorofluoromethane	**100**		5.0		ug/L			11/09/22 20:24	10
Vinyl acetate	ND		20		ug/L			11/09/22 20:24	10
Vinyl chloride	**1.8**		0.20		ug/L			11/09/22 20:24	10

Client Sample ID: 1022-05

Date Collected: 10/27/22 12:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-5

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 120*		*11/09/22 20:24*	*10*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/09/22 20:24*	*10*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/09/22 20:24*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/09/22 20:24*	*10*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**250**		0.50		mg/L		11/04/22 19:04	11/07/22 21:51	1
Iron	ND		0.30		mg/L		11/04/22 19:04	11/07/22 21:51	1
Magnesium	**100**		0.50		mg/L		11/04/22 19:04	11/07/22 21:51	1
Manganese	**0.75**		0.020		mg/L		11/04/22 19:04	11/07/22 21:51	1
Potassium	**9.5**		3.3		mg/L		11/04/22 19:04	11/07/22 21:51	1
Sodium	**36**		0.50		mg/L		11/04/22 19:04	11/07/22 21:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:16	1
Arsenic	**0.0021**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:16	1
Barium	**0.060**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:16	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:16	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:16	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:16	1
Cobalt	**0.0029**		0.00040		mg/L		11/04/22 19:01	11/07/22 18:16	1
Copper	**0.0039**		0.0020		mg/L		11/04/22 19:01	11/07/22 18:16	1
Iron	**0.26**		0.10		mg/L		11/04/22 19:01	11/07/22 18:16	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:16	1
Nickel	**0.027**		0.0030		mg/L		11/04/22 19:01	11/07/22 18:16	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:16	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:16	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:16	1
Vanadium	**0.0079**		0.0040		mg/L		11/04/22 19:01	11/07/22 18:16	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	**0.34**		0.20		mg/L			10/28/22 21:43	1
Nitrate Nitrite as N (MCAWW 300.0	**1.9**		0.40		mg/L			10/28/22 21:43	1
Chloride (MCAWW 300.0)	**46**		1.5		mg/L			10/28/22 21:43	1
Sulfate (MCAWW 300.0)	**270**		7.5		mg/L			10/28/22 21:55	5
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Carbon, Total Organic (SM 5310D)	**18**		0.50		mg/L			11/01/22 15:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**750**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**750**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**1800**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-06
Date Collected: 10/26/22 11:00
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 13:49	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 13:49	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 13:49	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 13:49	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 13:49	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 13:49	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 13:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 13:49	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 13:49	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 13:49	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 13:49	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 13:49	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 13:49	1
2-Butanone	ND		10		ug/L			11/09/22 13:49	1
2-Hexanone	ND		3.0		ug/L			11/09/22 13:49	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 13:49	1
Acetone	ND		10		ug/L			11/09/22 13:49	1
Acrylonitrile	ND		10		ug/L			11/09/22 13:49	1
Benzene	ND		0.20		ug/L			11/09/22 13:49	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 13:49	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 13:49	1
Bromoform	ND		0.50		ug/L			11/09/22 13:49	1
Bromomethane	ND		0.50		ug/L			11/09/22 13:49	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 13:49	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 13:49	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 13:49	1
Chloroethane	ND		0.50		ug/L			11/09/22 13:49	1
Chloroform	ND		0.20		ug/L			11/09/22 13:49	1
Chloromethane	ND		0.50		ug/L			11/09/22 13:49	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 13:49	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 13:49	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 13:49	1
Dibromomethane	ND		0.20		ug/L			11/09/22 13:49	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 13:49	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 13:49	1
Methyl iodide	ND		0.50		ug/L			11/09/22 13:49	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 13:49	1
o-Xylene	ND		0.50		ug/L			11/09/22 13:49	1
Styrene	ND		1.0		ug/L			11/09/22 13:49	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 13:49	1
Toluene	ND		0.20		ug/L			11/09/22 13:49	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 13:49	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 13:49	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 13:49	1
Trichloroethene	ND		0.20		ug/L			11/09/22 13:49	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 13:49	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 13:49	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 13:49	1

Client Sample ID: 1022-06
Date Collected: 10/26/22 11:00
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/09/22 13:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/09/22 13:49*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/09/22 13:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 13:49*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**50**		0.50		mg/L		11/04/22 19:04	11/07/22 21:54	1
Iron	**1.4**		0.30		mg/L		11/04/22 19:04	11/07/22 21:54	1
Magnesium	**26**		0.50		mg/L		11/04/22 19:04	11/07/22 21:54	1
Manganese	**0.32**		0.020		mg/L		11/04/22 19:04	11/07/22 21:54	1
Potassium	**5.1**		3.3		mg/L		11/04/22 19:04	11/07/22 21:54	1
Sodium	**22**		0.50		mg/L		11/04/22 19:04	11/07/22 21:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:18	1
Arsenic	**0.0048**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:18	1
Barium	**0.062**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:18	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:18	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:18	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:18	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:18	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:18	1
Iron	**1.3**		0.10		mg/L		11/04/22 19:01	11/07/22 18:18	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:18	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:18	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:18	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:18	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:18	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:18	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/29/22 01:25	1
Chloride (MCAWW 300.0)	**12**		1.5		mg/L			10/29/22 01:25	1
Sulfate (MCAWW 300.0)	**41**		1.5		mg/L			10/29/22 01:25	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:33	1
Carbon, Total Organic (SM 5310D)	**1.1**		0.50		mg/L			11/01/22 16:05	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**230**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**230**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**330**		10		mg/L			11/02/22 14:15	1

Client Sample ID: 1022-07
Date Collected: 10/25/22 12:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 04:32	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 04:32	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 04:32	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 04:32	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 17:43	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 04:32	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 04:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 04:32	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 04:32	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 04:32	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 04:32	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 04:32	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 04:32	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 04:32	1
Acetone	ND		10		ug/L			11/07/22 04:32	1
Benzene	ND		0.20		ug/L			11/07/22 04:32	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 04:32	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 04:32	1
Bromoform	ND		0.50		ug/L			11/07/22 04:32	1
Bromomethane	ND		0.50		ug/L			11/07/22 04:32	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 04:32	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 04:32	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 04:32	1
Chloroethane	ND		0.50		ug/L			11/07/22 04:32	1
Chloroform	ND		0.20		ug/L			11/07/22 04:32	1
Chloromethane	ND		0.50		ug/L			11/07/22 04:32	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 04:32	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 04:32	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 04:32	1
Dibromomethane	ND		0.20		ug/L			11/07/22 04:32	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 04:32	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 04:32	1
Methyl iodide	ND		0.50		ug/L			11/07/22 04:32	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 04:32	1
o-Xylene	ND		0.50		ug/L			11/07/22 04:32	1
Styrene	ND		1.0		ug/L			11/07/22 04:32	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 04:32	1
Toluene	ND		0.20		ug/L			11/07/22 04:32	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 04:32	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 04:32	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 04:32	1
Trichloroethene	ND		0.20		ug/L			11/07/22 04:32	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 04:32	1
Vinyl chloride	**0.021**		0.020		ug/L			11/07/22 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/07/22 17:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/07/22 17:43*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/07/22 17:43*	*1*

Client Sample ID: 1022-07
Date Collected: 10/25/22 12:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/07/22 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/07/22 04:32*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/07/22 04:32*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*11/07/22 04:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/07/22 04:32*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 14:52	1
2-Hexanone	ND		3.0		ug/L			11/04/22 14:52	1
Acrylonitrile	ND		10		ug/L			11/04/22 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/04/22 14:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/04/22 14:52*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/04/22 14:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/04/22 14:52*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		0.50		mg/L		11/07/22 17:28	11/08/22 18:16	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:16	1
Magnesium	**57**		0.50		mg/L		11/07/22 17:28	11/08/22 18:16	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 18:16	1
Potassium	**6.6**		3.3		mg/L		11/07/22 17:28	11/08/22 18:16	1
Sodium	**29**		0.50		mg/L		11/07/22 17:28	11/08/22 18:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:20	1
Arsenic	**0.0025**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:20	1
Barium	**0.049**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:20	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:20	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:20	1
Chromium	**0.0048**		0.00080		mg/L		11/04/22 19:01	11/07/22 18:20	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:20	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:20	1
Iron	**0.22**		0.10		mg/L		11/04/22 19:01	11/07/22 18:20	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:20	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:20	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:20	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:20	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:20	1
Vanadium	**0.0059**		0.0040		mg/L		11/04/22 19:01	11/07/22 18:20	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/29/22 01:37	1
Chloride (MCAWW 300.0)	**29**		1.5		mg/L			10/29/22 01:37	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-07
Lab Sample ID: 580-119368-7
Date Collected: 10/25/22 12:20
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**40**		1.5		mg/L			10/29/22 01:37	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2	**3.7**		0.10		mg/L			11/02/22 08:37	1
Carbon, Total Organic (SM 5310D)	**1.2**		0.50		mg/L			11/01/22 16:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**580**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**580**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**740**		10		mg/L			11/01/22 21:51	1

Client Sample ID: 1022-08
Lab Sample ID: 580-119368-8
Date Collected: 10/25/22 12:10
Matrix: Water
Date Received: 10/28/22 07:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 04:57	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 04:57	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 04:57	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 04:57	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 04:57	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 18:08	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 04:57	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 04:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 04:57	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 04:57	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 04:57	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 04:57	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 04:57	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 04:57	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 04:57	1
Acetone	ND		10		ug/L			11/07/22 04:57	1
Benzene	ND		0.20		ug/L			11/07/22 04:57	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 04:57	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 04:57	1
Bromoform	ND		0.50		ug/L			11/07/22 04:57	1
Bromomethane	ND		0.50		ug/L			11/07/22 04:57	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 04:57	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 04:57	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 04:57	1
Chloroethane	ND		0.50		ug/L			11/07/22 04:57	1
Chloroform	ND		0.20		ug/L			11/07/22 04:57	1
Chloromethane	ND		0.50		ug/L			11/07/22 04:57	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 04:57	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 04:57	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 04:57	1
Dibromomethane	ND		0.20		ug/L			11/07/22 04:57	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 04:57	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 04:57	1
Methyl iodide	ND		0.50		ug/L			11/07/22 04:57	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 04:57	1
o-Xylene	ND		0.50		ug/L			11/07/22 04:57	1
Styrene	ND		1.0		ug/L			11/07/22 04:57	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 04:57	1
Toluene	ND		0.20		ug/L			11/07/22 04:57	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 04:57	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 04:57	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 04:57	1
Trichloroethene	ND		0.20		ug/L			11/07/22 04:57	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 04:57	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/07/22 18:08*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/07/22 18:08*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*11/07/22 18:08*	*1*

Client Sample ID: 1022-08
Date Collected: 10/25/22 12:10
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*11/07/22 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 120*		*11/07/22 04:57*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/07/22 04:57*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/07/22 04:57*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/07/22 04:57*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 15:13	1
2-Hexanone	ND		3.0		ug/L			11/04/22 15:13	1
Acrylonitrile	ND		10		ug/L			11/04/22 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/04/22 15:13*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/04/22 15:13*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*11/04/22 15:13*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/04/22 15:13*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**48**		0.50		mg/L		11/07/22 17:28	11/08/22 18:42	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:42	1
Magnesium	**31**		0.50		mg/L		11/07/22 17:28	11/08/22 18:42	1
Manganese	**0.096**		0.020		mg/L		11/07/22 17:28	11/08/22 18:42	1
Potassium	**11**		3.3		mg/L		11/07/22 17:28	11/08/22 18:42	1
Sodium	**25**		0.50		mg/L		11/07/22 17:28	11/08/22 18:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:23	1
Arsenic	**0.015**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:23	1
Barium	**0.040**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:23	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:23	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:23	1
Chromium	**0.0011**		0.00080		mg/L		11/04/22 19:01	11/07/22 18:23	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:23	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:23	1
Iron	**0.49**		0.10		mg/L		11/04/22 19:01	11/07/22 18:23	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:23	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:23	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:23	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:23	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:23	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:23	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/29/22 01:49	1
Chloride (MCAWW 300.0)	**29**		1.5		mg/L			10/29/22 01:49	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-08
Lab Sample ID: 580-119368-8
Date Collected: 10/25/22 12:10
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**15**		1.5		mg/L			10/29/22 01:49	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:41	1
Carbon, Total Organic (SM 5310D)	**2.3**		0.50		mg/L			11/01/22 16:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**250**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**300**		10		mg/L			11/01/22 21:51	1

Client Sample ID: 1022-09
Lab Sample ID: 580-119368-9
Date Collected: 10/25/22 14:40
Matrix: Water
Date Received: 10/28/22 07:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 05:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 05:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 05:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 05:21	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 05:21	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 18:33	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 05:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 05:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 05:21	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 05:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 05:21	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 05:21	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 05:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 05:21	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 05:21	1
Acetone	ND		10		ug/L			11/07/22 05:21	1
Benzene	ND		0.20		ug/L			11/07/22 05:21	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 05:21	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 05:21	1
Bromoform	ND		0.50		ug/L			11/07/22 05:21	1
Bromomethane	ND		0.50		ug/L			11/07/22 05:21	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 05:21	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 05:21	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 05:21	1
Chloroethane	ND		0.50		ug/L			11/07/22 05:21	1
Chloroform	ND		0.20		ug/L			11/07/22 05:21	1
Chloromethane	ND		0.50		ug/L			11/07/22 05:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 05:21	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 05:21	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 05:21	1
Dibromomethane	ND		0.20		ug/L			11/07/22 05:21	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 05:21	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 05:21	1
Methyl iodide	ND		0.50		ug/L			11/07/22 05:21	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 05:21	1
o-Xylene	ND		0.50		ug/L			11/07/22 05:21	1
Styrene	ND		1.0		ug/L			11/07/22 05:21	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 05:21	1
Toluene	ND		0.20		ug/L			11/07/22 05:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 05:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 05:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 05:21	1
Trichloroethene	ND		0.20		ug/L			11/07/22 05:21	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 05:21	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*11/07/22 18:33*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/07/22 18:33*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*11/07/22 18:33*	*1*

Client Sample ID: 1022-09
Lab Sample ID: 580-119368-9
Date Collected: 10/25/22 14:40
Matrix: Water
Date Received: 10/28/22 07:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*11/07/22 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 120*		*11/07/22 05:21*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/07/22 05:21*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/07/22 05:21*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/07/22 05:21*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 15:35	1
2-Hexanone	ND		3.0		ug/L			11/04/22 15:35	1
Acrylonitrile	ND		10		ug/L			11/04/22 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/04/22 15:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/04/22 15:35*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/04/22 15:35*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/04/22 15:35*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		11/07/22 17:28	11/08/22 18:45	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:45	1
Magnesium	**38**		0.50		mg/L		11/07/22 17:28	11/08/22 18:45	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 18:45	1
Potassium	**5.7**		3.3		mg/L		11/07/22 17:28	11/08/22 18:45	1
Sodium	**19**		0.50		mg/L		11/07/22 17:28	11/08/22 18:45	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:25	1
Arsenic	**0.0023**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:25	1
Barium	**0.032**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:25	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:25	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:25	1
Chromium	**0.0046**		0.00080		mg/L		11/04/22 19:01	11/07/22 18:25	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:25	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:25	1
Iron	**0.12**		0.10		mg/L		11/04/22 19:01	11/07/22 18:25	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:25	1
Nickel	**0.0042**		0.0030		mg/L		11/04/22 19:01	11/07/22 18:25	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:25	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:25	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:25	1
Vanadium	**0.0049**		0.0040		mg/L		11/04/22 19:01	11/07/22 18:25	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/29/22 02:01	1
Chloride (MCAWW 300.0)	**25**		1.5		mg/L			10/29/22 02:01	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-09
Lab Sample ID: 580-119368-9
Date Collected: 10/25/22 14:40
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**86**		1.5		mg/L			10/29/22 02:01	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2	**7.8**		0.50		mg/L			11/02/22 08:49	5
Carbon, Total Organic (SM 5310D)	**1.3**		0.50		mg/L			11/01/22 17:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**320**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**320**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**570**		10		mg/L			11/01/22 21:51	1

Client Sample ID: 1022-10

Date Collected: 10/25/22 13:25
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-10

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 05:46	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 05:46	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 05:46	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 05:46	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 05:46	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 18:56	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 05:46	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 05:46	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 05:46	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 05:46	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 05:46	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 05:46	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 05:46	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 05:46	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 05:46	1
Acetone	ND		10		ug/L			11/07/22 05:46	1
Benzene	ND		0.20		ug/L			11/07/22 05:46	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 05:46	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 05:46	1
Bromoform	ND		0.50		ug/L			11/07/22 05:46	1
Bromomethane	ND		0.50		ug/L			11/07/22 05:46	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 05:46	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 05:46	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 05:46	1
Chloroethane	ND		0.50		ug/L			11/07/22 05:46	1
Chloroform	ND		0.20		ug/L			11/07/22 05:46	1
Chloromethane	ND		0.50		ug/L			11/07/22 05:46	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 05:46	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 05:46	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 05:46	1
Dibromomethane	ND		0.20		ug/L			11/07/22 05:46	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 05:46	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 05:46	1
Methyl iodide	ND		0.50		ug/L			11/07/22 05:46	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 05:46	1
o-Xylene	ND		0.50		ug/L			11/07/22 05:46	1
Styrene	ND		1.0		ug/L			11/07/22 05:46	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 05:46	1
Toluene	ND		0.20		ug/L			11/07/22 05:46	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 05:46	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 05:46	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 05:46	1
Trichloroethene	ND		0.20		ug/L			11/07/22 05:46	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 05:46	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/07/22 18:56*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/07/22 18:56*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*11/07/22 18:56*	*1*

Client Sample ID: 1022-10
Date Collected: 10/25/22 13:25
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*11/07/22 18:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/07/22 05:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/07/22 05:46*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/07/22 05:46*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/07/22 05:46*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		50		ug/L			11/04/22 19:33	5
2-Hexanone	ND		15		ug/L			11/04/22 19:33	5
Acrylonitrile	ND		50		ug/L			11/04/22 19:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*11/04/22 19:33*	*5*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/04/22 19:33*	*5*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/04/22 19:33*	*5*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/04/22 19:33*	*5*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**55**		0.50		mg/L		11/07/22 17:28	11/08/22 18:48	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:48	1
Magnesium	**33**		0.50		mg/L		11/07/22 17:28	11/08/22 18:48	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 18:48	1
Potassium	**5.9**		3.3		mg/L		11/07/22 17:28	11/08/22 18:48	1
Sodium	**24**		0.50		mg/L		11/07/22 17:28	11/08/22 18:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:40	1
Arsenic	**0.0073**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:40	1
Barium	**0.015**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:40	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:40	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:40	1
Chromium	**0.0013**		0.00080		mg/L		11/04/22 19:01	11/07/22 18:40	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:40	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:40	1
Iron	ND		0.10		mg/L		11/04/22 19:01	11/07/22 18:40	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:40	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:40	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:40	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:40	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:40	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:40	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	**0.20**		0.20		mg/L			10/29/22 02:12	1
Chloride (MCAWW 300.0)	**35**		1.5		mg/L			10/29/22 02:12	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-10
Lab Sample ID: 580-119368-10
Date Collected: 10/25/22 13:25
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**37**		1.5		mg/L			10/29/22 02:12	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 07:17	1
Carbon, Total Organic (SM 5310D)	**1.1**		0.50		mg/L			11/01/22 17:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**250**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**360**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-11
Date Collected: 10/27/22 09:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 17:31	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 17:31	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 17:31	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 17:31	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 17:31	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 17:31	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 17:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 17:31	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 17:31	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 17:31	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 17:31	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 17:31	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 17:31	1
2-Butanone	ND		10		ug/L			11/09/22 17:31	1
2-Hexanone	ND		3.0		ug/L			11/09/22 17:31	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 17:31	1
Acetone	ND		10		ug/L			11/09/22 17:31	1
Acrylonitrile	ND		10		ug/L			11/09/22 17:31	1
Benzene	ND		0.20		ug/L			11/09/22 17:31	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 17:31	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 17:31	1
Bromoform	ND		0.50		ug/L			11/09/22 17:31	1
Bromomethane	ND		0.50		ug/L			11/09/22 17:31	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 17:31	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 17:31	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 17:31	1
Chloroethane	ND		0.50		ug/L			11/09/22 17:31	1
Chloroform	ND		0.20		ug/L			11/09/22 17:31	1
Chloromethane	ND		0.50		ug/L			11/09/22 17:31	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 17:31	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 17:31	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 17:31	1
Dibromomethane	ND		0.20		ug/L			11/09/22 17:31	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 17:31	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 17:31	1
Methyl iodide	ND		0.50		ug/L			11/09/22 17:31	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 17:31	1
o-Xylene	ND		0.50		ug/L			11/09/22 17:31	1
Styrene	ND		1.0		ug/L			11/09/22 17:31	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 17:31	1
Toluene	ND		0.20		ug/L			11/09/22 17:31	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 17:31	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 17:31	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 17:31	1
Trichloroethene	ND		0.20		ug/L			11/09/22 17:31	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 17:31	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 17:31	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 17:31	1

Client Sample ID: 1022-11

Date Collected: 10/27/22 09:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*11/09/22 17:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/09/22 17:31*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/09/22 17:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 17:31*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		0.50		mg/L		11/07/22 17:28	11/08/22 18:51	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:51	1
Magnesium	**89**		0.50		mg/L		11/07/22 17:28	11/08/22 18:51	1
Manganese	**0.15**		0.020		mg/L		11/07/22 17:28	11/08/22 18:51	1
Potassium	**10**		3.3		mg/L		11/07/22 17:28	11/08/22 18:51	1
Sodium	**46**		0.50		mg/L		11/07/22 17:28	11/08/22 18:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:42	1
Arsenic	**0.0032**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:42	1
Barium	**0.080**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:42	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:42	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:42	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:42	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:42	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:42	1
Iron	**0.12**		0.10		mg/L		11/04/22 19:01	11/07/22 18:42	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:42	1
Nickel	**0.0070**		0.0030		mg/L		11/04/22 19:01	11/07/22 18:42	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:42	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:42	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:42	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:42	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 22:07	1
Nitrate Nitrite as N (MCAWW 300.0)	ND		0.40		mg/L			10/28/22 22:07	1
Chloride (MCAWW 300.0)	**90**		1.5		mg/L			10/28/22 22:07	1
Sulfate (MCAWW 300.0)	**77**		1.5		mg/L			10/28/22 22:07	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Carbon, Total Organic (SM 5310D)	**2.5**		0.50		mg/L			11/01/22 18:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**540**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**540**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**590**		10		mg/L			11/03/22 14:13	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-12
Date Collected: 10/26/22 13:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 14:13	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 14:13	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 14:13	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 14:13	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 14:13	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 14:13	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 14:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 14:13	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 14:13	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 14:13	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 14:13	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 14:13	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 14:13	1
2-Butanone	ND		10		ug/L			11/09/22 14:13	1
2-Hexanone	ND		3.0		ug/L			11/09/22 14:13	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 14:13	1
Acetone	ND		10		ug/L			11/09/22 14:13	1
Acrylonitrile	ND		10		ug/L			11/09/22 14:13	1
Benzene	ND		0.20		ug/L			11/09/22 14:13	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 14:13	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 14:13	1
Bromoform	ND		0.50		ug/L			11/09/22 14:13	1
Bromomethane	ND		0.50		ug/L			11/09/22 14:13	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 14:13	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 14:13	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 14:13	1
Chloroethane	ND		0.50		ug/L			11/09/22 14:13	1
Chloroform	ND		0.20		ug/L			11/09/22 14:13	1
Chloromethane	ND		0.50		ug/L			11/09/22 14:13	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 14:13	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 14:13	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 14:13	1
Dibromomethane	ND		0.20		ug/L			11/09/22 14:13	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 14:13	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 14:13	1
Methyl iodide	ND		0.50		ug/L			11/09/22 14:13	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 14:13	1
o-Xylene	ND		0.50		ug/L			11/09/22 14:13	1
Styrene	ND		1.0		ug/L			11/09/22 14:13	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 14:13	1
Toluene	ND		0.20		ug/L			11/09/22 14:13	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 14:13	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 14:13	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 14:13	1
Trichloroethene	ND		0.20		ug/L			11/09/22 14:13	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 14:13	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 14:13	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 14:13	1

Client Sample ID: 1022-12

Date Collected: 10/26/22 13:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-12

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/09/22 14:13*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/09/22 14:13*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/09/22 14:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/09/22 14:13*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**73**		0.50		mg/L		11/07/22 17:28	11/08/22 18:55	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:55	1
Magnesium	**52**		0.50		mg/L		11/07/22 17:28	11/08/22 18:55	1
Manganese	**0.16**		0.020		mg/L		11/07/22 17:28	11/08/22 18:55	1
Potassium	**7.5**		3.3		mg/L		11/07/22 17:28	11/08/22 18:55	1
Sodium	**35**		0.50		mg/L		11/07/22 17:28	11/08/22 18:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:44	1
Arsenic	**0.0073**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:44	1
Barium	**0.041**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:44	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:44	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:44	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:44	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:44	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:44	1
Iron	**0.41**		0.10		mg/L		11/04/22 19:01	11/07/22 18:44	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:44	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:44	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:44	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:44	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:44	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:44	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 20:15	1
Chloride (MCAWW 300.0)	**71**		1.5		mg/L			11/03/22 20:15	1
Sulfate (MCAWW 300.0)	**31**		1.5		mg/L			11/03/22 20:15	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:01	1
Carbon, Total Organic (SM 5310D)	**2.4**		0.50		mg/L			11/01/22 19:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**340**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**340**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**510**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-13
Date Collected: 10/26/22 12:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 14:38	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 14:38	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 14:38	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 14:38	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 14:38	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 14:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 14:38	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 14:38	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 14:38	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 14:38	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 14:38	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 14:38	1
2-Butanone	ND		10		ug/L			11/09/22 14:38	1
2-Hexanone	ND		3.0		ug/L			11/09/22 14:38	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 14:38	1
Acetone	ND		10		ug/L			11/09/22 14:38	1
Acrylonitrile	ND		10		ug/L			11/09/22 14:38	1
Benzene	ND		0.20		ug/L			11/09/22 14:38	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 14:38	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 14:38	1
Bromoform	ND		0.50		ug/L			11/09/22 14:38	1
Bromomethane	ND		0.50		ug/L			11/09/22 14:38	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 14:38	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 14:38	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 14:38	1
Chloroethane	ND		0.50		ug/L			11/09/22 14:38	1
Chloroform	ND		0.20		ug/L			11/09/22 14:38	1
Chloromethane	ND		0.50		ug/L			11/09/22 14:38	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 14:38	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 14:38	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 14:38	1
Dibromomethane	ND		0.20		ug/L			11/09/22 14:38	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 14:38	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 14:38	1
Methyl iodide	ND		0.50		ug/L			11/09/22 14:38	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 14:38	1
o-Xylene	ND		0.50		ug/L			11/09/22 14:38	1
Styrene	ND		1.0		ug/L			11/09/22 14:38	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 14:38	1
Toluene	ND		0.20		ug/L			11/09/22 14:38	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 14:38	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 14:38	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 14:38	1
Trichloroethene	ND		0.20		ug/L			11/09/22 14:38	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 14:38	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 14:38	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 14:38	1

Client Sample ID: 1022-13

Date Collected: 10/26/22 12:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-13

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*11/09/22 14:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/09/22 14:38*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/09/22 14:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 14:38*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**75**		0.50		mg/L		11/07/22 17:28	11/08/22 18:58	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:58	1
Magnesium	**51**		0.50		mg/L		11/07/22 17:28	11/08/22 18:58	1
Manganese	**0.19**		0.020		mg/L		11/07/22 17:28	11/08/22 18:58	1
Potassium	**6.6**		3.3		mg/L		11/07/22 17:28	11/08/22 18:58	1
Sodium	**33**		0.50		mg/L		11/07/22 17:28	11/08/22 18:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:47	1
Arsenic	**0.0057**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:47	1
Barium	**0.031**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:47	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:47	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:47	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:47	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:47	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:47	1
Iron	**0.16**		0.10		mg/L		11/04/22 19:01	11/07/22 18:47	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:47	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 18:47	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:47	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:47	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:47	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 18:47	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 20:27	1
Chloride (MCAWW 300.0)	**60**		1.5		mg/L			11/03/22 20:27	1
Sulfate (MCAWW 300.0)	**29**		1.5		mg/L			11/03/22 20:27	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:19	1
Carbon, Total Organic (SM 5310D)	**2.5**		0.50		mg/L			11/01/22 19:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**370**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**370**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**720**		10		mg/L			11/02/22 14:15	1

Client Sample ID: 1022-14

Date Collected: 10/25/22 09:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 06:59	1
1,1,1-Trichloroethane	**0.45**		0.20		ug/L			11/07/22 06:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 06:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 06:59	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 06:59	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 19:22	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 06:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 06:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 06:59	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 06:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 06:59	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 06:59	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 06:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 06:59	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 06:59	1
Acetone	ND		10		ug/L			11/07/22 06:59	1
Benzene	ND		0.20		ug/L			11/07/22 06:59	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 06:59	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 06:59	1
Bromoform	ND		0.50		ug/L			11/07/22 06:59	1
Bromomethane	ND		0.50		ug/L			11/07/22 06:59	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 06:59	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 06:59	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 06:59	1
Chloroethane	ND		0.50		ug/L			11/07/22 06:59	1
Chloroform	ND		0.20		ug/L			11/07/22 06:59	1
Chloromethane	ND		0.50		ug/L			11/07/22 06:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 06:59	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 06:59	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 06:59	1
Dibromomethane	ND		0.20		ug/L			11/07/22 06:59	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 06:59	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 06:59	1
Methyl iodide	ND		0.50		ug/L			11/07/22 06:59	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 06:59	1
o-Xylene	ND		0.50		ug/L			11/07/22 06:59	1
Styrene	ND		1.0		ug/L			11/07/22 06:59	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 06:59	1
Toluene	ND		0.20		ug/L			11/07/22 06:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 06:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 06:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 06:59	1
Trichloroethene	ND		0.20		ug/L			11/07/22 06:59	1
Trichlorofluoromethane	**5.6**		0.50		ug/L			11/07/22 06:59	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 06:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*11/07/22 19:22*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/07/22 19:22*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*11/07/22 19:22*	*1*

Client Sample ID: 1022-14
Date Collected: 10/25/22 09:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*11/07/22 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*11/07/22 06:59*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/07/22 06:59*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/07/22 06:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/07/22 06:59*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 16:40	1
2-Hexanone	ND		3.0		ug/L			11/04/22 16:40	1
Acrylonitrile	ND		10		ug/L			11/04/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/04/22 16:40*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/04/22 16:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/04/22 16:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/04/22 16:40*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		11/07/22 17:28	11/08/22 19:01	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:01	1
Magnesium	**65**		0.50		mg/L		11/07/22 17:28	11/08/22 19:01	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:01	1
Potassium	**6.0**		3.3		mg/L		11/07/22 17:28	11/08/22 19:01	1
Sodium	**25**		0.50		mg/L		11/07/22 17:28	11/08/22 19:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 18:49	1
Arsenic	**0.0021**		0.0010		mg/L		11/04/22 19:01	11/07/22 18:49	1
Barium	**0.028**		0.0012		mg/L		11/04/22 19:01	11/07/22 18:49	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:49	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:49	1
Chromium	**0.010**		0.00080		mg/L		11/04/22 19:01	11/07/22 18:49	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:49	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 18:49	1
Iron	**0.12**		0.10		mg/L		11/04/22 19:01	11/07/22 18:49	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:49	1
Nickel	**0.0033**		0.0030		mg/L		11/04/22 19:01	11/07/22 18:49	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 18:49	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 18:49	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 18:49	1
Vanadium	**0.0042**		0.0040		mg/L		11/04/22 19:01	11/07/22 18:49	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 17:19	1
Chloride (MCAWW 300.0)	**57**		1.5		mg/L			11/03/22 17:19	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-14
Lab Sample ID: 580-119368-14
Date Collected: 10/25/22 09:50
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**73**		1.5		mg/L			11/03/22 17:19	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2	**22**		2.0		mg/L			11/02/22 08:21	20
Carbon, Total Organic (SM 5310D)	**1.8**		0.50		mg/L			11/01/22 19:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**370**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**370**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**670**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-15
Date Collected: 10/27/22 11:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 17:56	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 17:56	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 17:56	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 17:56	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 17:56	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 17:56	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 17:56	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 17:56	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 17:56	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 17:56	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 17:56	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 17:56	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 17:56	1
2-Butanone	ND		10		ug/L			11/09/22 17:56	1
2-Hexanone	ND		3.0		ug/L			11/09/22 17:56	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 17:56	1
Acetone	ND		10		ug/L			11/09/22 17:56	1
Acrylonitrile	ND		10		ug/L			11/09/22 17:56	1
Benzene	ND		0.20		ug/L			11/09/22 17:56	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 17:56	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 17:56	1
Bromoform	ND		0.50		ug/L			11/09/22 17:56	1
Bromomethane	ND		0.50		ug/L			11/09/22 17:56	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 17:56	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 17:56	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 17:56	1
Chloroethane	ND		0.50		ug/L			11/09/22 17:56	1
Chloroform	ND		0.20		ug/L			11/09/22 17:56	1
Chloromethane	ND		0.50		ug/L			11/09/22 17:56	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 17:56	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 17:56	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 17:56	1
Dibromomethane	ND		0.20		ug/L			11/09/22 17:56	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 17:56	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 17:56	1
Methyl iodide	ND		0.50		ug/L			11/09/22 17:56	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 17:56	1
o-Xylene	ND		0.50		ug/L			11/09/22 17:56	1
Styrene	ND		1.0		ug/L			11/09/22 17:56	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 17:56	1
Toluene	ND		0.20		ug/L			11/09/22 17:56	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 17:56	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 17:56	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 17:56	1
Trichloroethene	ND		0.20		ug/L			11/09/22 17:56	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 17:56	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 17:56	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 17:56	1

Client Sample ID: 1022-15

Date Collected: 10/27/22 11:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*11/09/22 17:56*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/09/22 17:56*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/09/22 17:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/09/22 17:56*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**82**		0.50		mg/L		11/07/22 17:28	11/08/22 19:05	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:05	1
Magnesium	**46**		0.50		mg/L		11/07/22 17:28	11/08/22 19:05	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:05	1
Potassium	**5.7**		3.3		mg/L		11/07/22 17:28	11/08/22 19:05	1
Sodium	**30**		0.50		mg/L		11/07/22 17:28	11/08/22 19:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:04	1
Arsenic	**0.0040**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:04	1
Barium	**0.020**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:04	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:04	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:04	1
Chromium	**0.0029**		0.00080		mg/L		11/07/22 17:25	11/08/22 13:04	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:04	1
Copper	**0.0047**		0.0020		mg/L		11/07/22 17:25	11/08/22 13:04	1
Iron	**0.20**		0.10		mg/L		11/07/22 17:25	11/08/22 13:04	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:04	1
Nickel	ND		0.0030		mg/L		11/07/22 17:25	11/08/22 13:04	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:04	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:04	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:04	1
Vanadium	**0.0069**		0.0040		mg/L		11/07/22 17:25	11/08/22 13:04	1
Zinc	**0.0087**		0.0070		mg/L		11/07/22 17:25	11/08/22 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 22:30	1
Nitrate Nitrite as N (MCAWW 300.0	**0.44**		0.40		mg/L			10/28/22 22:30	1
Chloride (MCAWW 300.0)	**63**		1.5		mg/L			10/28/22 22:30	1
Sulfate (MCAWW 300.0)	**55**		1.5		mg/L			10/28/22 22:30	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Carbon, Total Organic (SM 5310D)	**2.1**		0.50		mg/L			11/01/22 20:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**300**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**300**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**450**		10		mg/L			11/03/22 14:13	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-16
Date Collected: 10/26/22 14:35
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 15:03	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 15:03	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 15:03	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 15:03	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 15:03	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 15:03	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 15:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 15:03	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 15:03	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 15:03	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 15:03	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 15:03	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 15:03	1
2-Butanone	ND		10		ug/L			11/09/22 15:03	1
2-Hexanone	ND		3.0		ug/L			11/09/22 15:03	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 15:03	1
Acetone	ND		10		ug/L			11/09/22 15:03	1
Acrylonitrile	ND		10		ug/L			11/09/22 15:03	1
Benzene	ND		0.20		ug/L			11/09/22 15:03	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 15:03	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 15:03	1
Bromoform	ND		0.50		ug/L			11/09/22 15:03	1
Bromomethane	ND		0.50		ug/L			11/09/22 15:03	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 15:03	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 15:03	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 15:03	1
Chloroethane	ND		0.50		ug/L			11/09/22 15:03	1
Chloroform	ND		0.20		ug/L			11/09/22 15:03	1
Chloromethane	ND		0.50		ug/L			11/09/22 15:03	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 15:03	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 15:03	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 15:03	1
Dibromomethane	ND		0.20		ug/L			11/09/22 15:03	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 15:03	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 15:03	1
Methyl iodide	ND		0.50		ug/L			11/09/22 15:03	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 15:03	1
o-Xylene	ND		0.50		ug/L			11/09/22 15:03	1
Styrene	ND		1.0		ug/L			11/09/22 15:03	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 15:03	1
Toluene	ND		0.20		ug/L			11/09/22 15:03	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 15:03	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 15:03	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 15:03	1
Trichloroethene	ND		0.20		ug/L			11/09/22 15:03	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 15:03	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 15:03	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 15:03	1

Client Sample ID: 1022-16

Date Collected: 10/26/22 14:35
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-16

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*11/09/22 15:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/09/22 15:03*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/09/22 15:03*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/09/22 15:03*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**110**		0.50		mg/L		11/07/22 17:28	11/08/22 19:08	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:08	1
Magnesium	**89**		0.50		mg/L		11/07/22 17:28	11/08/22 19:08	1
Manganese	**0.32**		0.020		mg/L		11/07/22 17:28	11/08/22 19:08	1
Potassium	**9.0**		3.3		mg/L		11/07/22 17:28	11/08/22 19:08	1
Sodium	**45**		0.50		mg/L		11/07/22 17:28	11/08/22 19:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:06	1
Arsenic	**0.0050**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:06	1
Barium	**0.095**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:06	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:06	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:06	1
Chromium	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:06	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:06	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:06	1
Iron	**0.39**		0.10		mg/L		11/07/22 17:25	11/08/22 13:06	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:06	1
Nickel	**0.0072**		0.0030		mg/L		11/07/22 17:25	11/08/22 13:06	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:06	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:06	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:06	1
Vanadium	ND		0.0040		mg/L		11/07/22 17:25	11/08/22 13:06	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 17:31	1
Chloride (MCAWW 300.0)	**110**		7.5		mg/L			11/03/22 17:42	5
Sulfate (MCAWW 300.0)	**140**		7.5		mg/L			11/03/22 17:42	5
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:31	1
Carbon, Total Organic (SM 5310D)	**3.3**		0.50		mg/L			11/01/22 20:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**470**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**470**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**1100**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-17
Date Collected: 10/26/22 12:45
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 15:27	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 15:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 15:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 15:27	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 15:27	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 15:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 15:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 15:27	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 15:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 15:27	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 15:27	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 15:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 15:27	1
2-Butanone	ND		10		ug/L			11/09/22 15:27	1
2-Hexanone	ND		3.0		ug/L			11/09/22 15:27	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 15:27	1
Acetone	ND		10		ug/L			11/09/22 15:27	1
Acrylonitrile	ND		10		ug/L			11/09/22 15:27	1
Benzene	ND		0.20		ug/L			11/09/22 15:27	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 15:27	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 15:27	1
Bromoform	ND		0.50		ug/L			11/09/22 15:27	1
Bromomethane	ND		0.50		ug/L			11/09/22 15:27	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 15:27	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 15:27	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 15:27	1
Chloroethane	ND		0.50		ug/L			11/09/22 15:27	1
Chloroform	ND		0.20		ug/L			11/09/22 15:27	1
Chloromethane	ND		0.50		ug/L			11/09/22 15:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 15:27	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 15:27	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 15:27	1
Dibromomethane	ND		0.20		ug/L			11/09/22 15:27	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 15:27	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 15:27	1
Methyl iodide	ND		0.50		ug/L			11/09/22 15:27	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 15:27	1
o-Xylene	ND		0.50		ug/L			11/09/22 15:27	1
Styrene	ND		1.0		ug/L			11/09/22 15:27	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 15:27	1
Toluene	ND		0.20		ug/L			11/09/22 15:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 15:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 15:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 15:27	1
Trichloroethene	ND		0.20		ug/L			11/09/22 15:27	1
Trichlorofluoromethane	**0.75**		0.50		ug/L			11/09/22 15:27	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 15:27	1
Vinyl chloride	**0.025**		0.020		ug/L			11/09/22 15:27	1

Client Sample ID: 1022-17

Date Collected: 10/26/22 12:45
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-17

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*11/09/22 15:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/09/22 15:27*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/09/22 15:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/09/22 15:27*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		0.50		mg/L		11/07/22 17:28	11/08/22 19:11	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:11	1
Magnesium	**70**		0.50		mg/L		11/07/22 17:28	11/08/22 19:11	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:11	1
Potassium	**8.3**		3.3		mg/L		11/07/22 17:28	11/08/22 19:11	1
Sodium	**40**		0.50		mg/L		11/07/22 17:28	11/08/22 19:11	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:09	1
Arsenic	**0.0032**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:09	1
Barium	**0.027**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:09	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:09	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:09	1
Chromium	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:09	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:09	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:09	1
Iron	**0.18**		0.10		mg/L		11/07/22 17:25	11/08/22 13:09	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:09	1
Nickel	**0.0044**		0.0030		mg/L		11/07/22 17:25	11/08/22 13:09	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:09	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:09	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:09	1
Vanadium	ND		0.0040		mg/L		11/07/22 17:25	11/08/22 13:09	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 18:06	1
Chloride (MCAWW 300.0)	**73**		1.5		mg/L			11/03/22 18:06	1
Sulfate (MCAWW 300.0)	**71**		1.5		mg/L			11/03/22 18:06	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2	**3.4**		0.10		mg/L			11/02/22 08:35	1
Carbon, Total Organic (SM 5310D)	**2.1**		0.50		mg/L			11/01/22 20:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**430**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**430**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**720**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-18
Date Collected: 10/26/22 11:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 15:52	1
1,1,1-Trichloroethane	**0.32**		0.20		ug/L			11/09/22 15:52	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 15:52	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 15:52	1
1,1-Dichloroethane	**0.28**		0.20		ug/L			11/09/22 15:52	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 15:52	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 15:52	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 15:52	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 15:52	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 15:52	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 15:52	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 15:52	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 15:52	1
2-Butanone	ND		10		ug/L			11/09/22 15:52	1
2-Hexanone	ND		3.0		ug/L			11/09/22 15:52	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 15:52	1
Acetone	ND		10		ug/L			11/09/22 15:52	1
Acrylonitrile	ND		10		ug/L			11/09/22 15:52	1
Benzene	ND		0.20		ug/L			11/09/22 15:52	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 15:52	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 15:52	1
Bromoform	ND		0.50		ug/L			11/09/22 15:52	1
Bromomethane	ND		0.50		ug/L			11/09/22 15:52	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 15:52	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 15:52	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 15:52	1
Chloroethane	ND		0.50		ug/L			11/09/22 15:52	1
Chloroform	ND		0.20		ug/L			11/09/22 15:52	1
Chloromethane	ND		0.50		ug/L			11/09/22 15:52	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 15:52	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 15:52	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 15:52	1
Dibromomethane	ND		0.20		ug/L			11/09/22 15:52	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 15:52	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 15:52	1
Methyl iodide	ND		0.50		ug/L			11/09/22 15:52	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 15:52	1
o-Xylene	ND		0.50		ug/L			11/09/22 15:52	1
Styrene	ND		1.0		ug/L			11/09/22 15:52	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 15:52	1
Toluene	ND		0.20		ug/L			11/09/22 15:52	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 15:52	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 15:52	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 15:52	1
Trichloroethene	ND		0.20		ug/L			11/09/22 15:52	1
Trichlorofluoromethane	**4.1**		0.50		ug/L			11/09/22 15:52	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 15:52	1
Vinyl chloride	**0.037**		0.020		ug/L			11/09/22 15:52	1

Client Sample ID: 1022-18

Date Collected: 10/26/22 11:40
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-18

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*11/09/22 15:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/09/22 15:52*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*11/09/22 15:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 15:52*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160**		0.50		mg/L		11/07/22 17:28	11/08/22 19:21	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:21	1
Magnesium	**85**		0.50		mg/L		11/07/22 17:28	11/08/22 19:21	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:21	1
Potassium	**10**		3.3		mg/L		11/07/22 17:28	11/08/22 19:21	1
Sodium	**33**		0.50		mg/L		11/07/22 17:28	11/08/22 19:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:11	1
Arsenic	**0.0015**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:11	1
Barium	**0.051**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:11	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:11	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:11	1
Chromium	**0.0090**		0.00080		mg/L		11/07/22 17:25	11/08/22 13:11	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:11	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:11	1
Iron	**0.27**		0.10		mg/L		11/07/22 17:25	11/08/22 13:11	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:11	1
Nickel	ND		0.0030		mg/L		11/07/22 17:25	11/08/22 13:11	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:11	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:11	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:11	1
Vanadium	**0.0049**		0.0040		mg/L		11/07/22 17:25	11/08/22 13:11	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/04/22 11:17	1
Chloride (MCAWW 300.0)	**22**		1.5		mg/L			11/04/22 11:17	1
Sulfate (MCAWW 300.0)	**56**		1.5		mg/L			11/04/22 11:17	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2	**7.7**		0.20		mg/L			11/02/22 08:39	2
Carbon, Total Organic (SM 5310D)	**1.7**		0.50		mg/L			11/01/22 21:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**670**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**670**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**810**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-19
Date Collected: 10/26/22 10:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 16:17	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 16:17	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 16:17	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 16:17	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 16:17	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 16:17	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 16:17	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 16:17	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 16:17	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 16:17	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 16:17	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 16:17	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 16:17	1
2-Butanone	ND		10		ug/L			11/09/22 16:17	1
2-Hexanone	ND		3.0		ug/L			11/09/22 16:17	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 16:17	1
Acetone	ND		10		ug/L			11/09/22 16:17	1
Acrylonitrile	ND		10		ug/L			11/09/22 16:17	1
Benzene	ND		0.20		ug/L			11/09/22 16:17	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 16:17	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 16:17	1
Bromoform	ND		0.50		ug/L			11/09/22 16:17	1
Bromomethane	ND		0.50		ug/L			11/09/22 16:17	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 16:17	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 16:17	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 16:17	1
Chloroethane	ND		0.50		ug/L			11/09/22 16:17	1
Chloroform	ND		0.20		ug/L			11/09/22 16:17	1
Chloromethane	ND		0.50		ug/L			11/09/22 16:17	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 16:17	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 16:17	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 16:17	1
Dibromomethane	ND		0.20		ug/L			11/09/22 16:17	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 16:17	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 16:17	1
Methyl iodide	ND		0.50		ug/L			11/09/22 16:17	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 16:17	1
o-Xylene	ND		0.50		ug/L			11/09/22 16:17	1
Styrene	ND		1.0		ug/L			11/09/22 16:17	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 16:17	1
Toluene	ND		0.20		ug/L			11/09/22 16:17	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 16:17	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 16:17	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 16:17	1
Trichloroethene	ND		0.20		ug/L			11/09/22 16:17	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 16:17	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 16:17	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 16:17	1

Client Sample ID: 1022-19

Date Collected: 10/26/22 10:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-19

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*11/09/22 16:17*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/09/22 16:17*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*11/09/22 16:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 16:17*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**74**		0.50		mg/L		11/07/22 17:28	11/08/22 19:25	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:25	1
Magnesium	**28**		0.50		mg/L		11/07/22 17:28	11/08/22 19:25	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:25	1
Potassium	**6.2**		3.3		mg/L		11/07/22 17:28	11/08/22 19:25	1
Sodium	**21**		0.50		mg/L		11/07/22 17:28	11/08/22 19:25	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:13	1
Arsenic	**0.0074**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:13	1
Barium	**0.029**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:13	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:13	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:13	1
Chromium	**0.00096**		0.00080		mg/L		11/07/22 17:25	11/08/22 13:13	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:13	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:13	1
Iron	**0.19**		0.10		mg/L		11/07/22 17:25	11/08/22 13:13	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:13	1
Nickel	ND		0.0030		mg/L		11/07/22 17:25	11/08/22 13:13	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:13	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:13	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:13	1
Vanadium	ND		0.0040		mg/L		11/07/22 17:25	11/08/22 13:13	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/04/22 11:29	1
Chloride (MCAWW 300.0)	**38**		1.5		mg/L			11/04/22 11:29	1
Sulfate (MCAWW 300.0)	**26**		1.5		mg/L			11/04/22 11:29	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 08:47	1
Carbon, Total Organic (SM 5310D)	**0.98**		0.50		mg/L			11/01/22 21:38	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**260**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**600**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-20
Date Collected: 10/27/22 11:35
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 18:21	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 18:21	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 18:21	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 18:21	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 18:21	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 18:21	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 18:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 18:21	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 18:21	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 18:21	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 18:21	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 18:21	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 18:21	1
2-Butanone	ND		10		ug/L			11/09/22 18:21	1
2-Hexanone	ND		3.0		ug/L			11/09/22 18:21	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 18:21	1
Acetone	ND		10		ug/L			11/09/22 18:21	1
Acrylonitrile	ND		10		ug/L			11/09/22 18:21	1
Benzene	ND		0.20		ug/L			11/09/22 18:21	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 18:21	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 18:21	1
Bromoform	ND		0.50		ug/L			11/09/22 18:21	1
Bromomethane	ND		0.50		ug/L			11/09/22 18:21	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 18:21	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 18:21	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 18:21	1
Chloroethane	ND		0.50		ug/L			11/09/22 18:21	1
Chloroform	ND		0.20		ug/L			11/09/22 18:21	1
Chloromethane	ND		0.50		ug/L			11/09/22 18:21	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 18:21	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 18:21	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 18:21	1
Dibromomethane	ND		0.20		ug/L			11/09/22 18:21	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 18:21	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 18:21	1
Methyl iodide	ND		0.50		ug/L			11/09/22 18:21	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 18:21	1
o-Xylene	ND		0.50		ug/L			11/09/22 18:21	1
Styrene	ND		1.0		ug/L			11/09/22 18:21	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 18:21	1
Toluene	ND		0.20		ug/L			11/09/22 18:21	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 18:21	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 18:21	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 18:21	1
Trichloroethene	ND		0.20		ug/L			11/09/22 18:21	1
Trichlorofluoromethane	**1.3**		0.50		ug/L			11/09/22 18:21	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 18:21	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 18:21	1

Client Sample ID: 1022-20

Date Collected: 10/27/22 11:35
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-20

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*11/09/22 18:21*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/09/22 18:21*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/09/22 18:21*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/09/22 18:21*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		0.50		mg/L		11/07/22 17:28	11/08/22 19:28	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:28	1
Magnesium	**44**		0.50		mg/L		11/07/22 17:28	11/08/22 19:28	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:28	1
Potassium	**5.9**		3.3		mg/L		11/07/22 17:28	11/08/22 19:28	1
Sodium	**27**		0.50		mg/L		11/07/22 17:28	11/08/22 19:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:15	1
Arsenic	**0.0025**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:15	1
Barium	**0.032**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:15	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:15	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:15	1
Chromium	**0.0099**		0.00080		mg/L		11/07/22 17:25	11/08/22 13:15	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:15	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:15	1
Iron	**0.20**		0.10		mg/L		11/07/22 17:25	11/08/22 13:15	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:15	1
Nickel	ND		0.0030		mg/L		11/07/22 17:25	11/08/22 13:15	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:15	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:15	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:15	1
Vanadium	**0.0055**		0.0040		mg/L		11/07/22 17:25	11/08/22 13:15	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 23:17	1
Nitrate Nitrite as N (MCAWW 300.0	**7.2**		0.40		mg/L			10/28/22 23:17	1
Chloride (MCAWW 300.0)	**32**		1.5		mg/L			10/28/22 23:17	1
Sulfate (MCAWW 300.0)	**41**		1.5		mg/L			10/28/22 23:17	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1
Carbon, Total Organic (SM 5310D)	**1.2**		0.50		mg/L			11/01/22 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**420**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**420**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**720**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-21

Date Collected: 10/27/22 10:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-21

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/08/22 06:27	1
1,1,1-Trichloroethane	**0.43**		0.20		ug/L			11/08/22 06:27	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/08/22 06:27	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/08/22 06:27	1
1,1-Dichloroethane	ND		0.20		ug/L			11/08/22 06:27	1
1,1-Dichloroethene	ND		0.20		ug/L			11/08/22 06:27	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/08/22 06:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/08/22 06:27	1
1,2-Dibromoethane	ND		0.10		ug/L			11/08/22 06:27	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/08/22 06:27	1
1,2-Dichloroethane	ND		0.20		ug/L			11/08/22 06:27	1
1,2-Dichloropropane	ND		0.20		ug/L			11/08/22 06:27	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/08/22 06:27	1
4-Methyl-2-pentanone	ND		10		ug/L			11/08/22 06:27	1
Acetone	ND		10		ug/L			11/08/22 06:27	1
Benzene	ND		0.20		ug/L			11/08/22 06:27	1
Bromochloromethane	ND		0.20		ug/L			11/08/22 06:27	1
Bromodichloromethane	ND		0.20		ug/L			11/08/22 06:27	1
Bromoform	ND		0.50		ug/L			11/08/22 06:27	1
Bromomethane	ND		0.50		ug/L			11/08/22 06:27	1
Carbon disulfide	ND		0.30		ug/L			11/08/22 06:27	1
Carbon tetrachloride	ND		0.20		ug/L			11/08/22 06:27	1
Chlorobenzene	ND		0.20		ug/L			11/08/22 06:27	1
Chloroethane	ND		0.50		ug/L			11/08/22 06:27	1
Chloroform	ND		0.20		ug/L			11/08/22 06:27	1
Chloromethane	ND		0.50		ug/L			11/08/22 06:27	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/08/22 06:27	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/08/22 06:27	1
Dibromochloromethane	ND		0.20		ug/L			11/08/22 06:27	1
Dibromomethane	ND		0.20		ug/L			11/08/22 06:27	1
Ethylbenzene	ND		0.20		ug/L			11/08/22 06:27	1
m,p-Xylene	ND		0.50		ug/L			11/08/22 06:27	1
Methyl iodide	ND		0.50		ug/L			11/08/22 06:27	1
Methylene Chloride	ND		5.0		ug/L			11/08/22 06:27	1
o-Xylene	ND		0.50		ug/L			11/08/22 06:27	1
Styrene	ND		1.0		ug/L			11/08/22 06:27	1
Tetrachloroethene	ND		0.50		ug/L			11/08/22 06:27	1
Toluene	ND		0.20		ug/L			11/08/22 06:27	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/08/22 06:27	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/08/22 06:27	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/08/22 06:27	1
Trichloroethene	ND		0.20		ug/L			11/08/22 06:27	1
Trichlorofluoromethane	**3.6**		0.50		ug/L			11/08/22 06:27	1
Vinyl chloride	**16**		0.020		ug/L			11/08/22 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 120*		*11/08/22 06:27*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/08/22 06:27*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*11/08/22 06:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/08/22 06:27*	*1*

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-21

Date Collected: 10/27/22 10:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-21

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/09/22 18:46	1
2-Hexanone	ND		3.0		ug/L			11/09/22 18:46	1
Acrylonitrile	ND		10		ug/L			11/09/22 18:46	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*11/09/22 18:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/09/22 18:46*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*11/09/22 18:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/09/22 18:46*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		0.50		mg/L		11/07/22 17:28	11/08/22 19:31	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:31	1
Magnesium	**77**		0.50		mg/L		11/07/22 17:28	11/08/22 19:31	1
Manganese	**0.056**		0.020		mg/L		11/07/22 17:28	11/08/22 19:31	1
Potassium	**8.0**		3.3		mg/L		11/07/22 17:28	11/08/22 19:31	1
Sodium	**31**		0.50		mg/L		11/07/22 17:28	11/08/22 19:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:18	1
Arsenic	**0.0020**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:18	1
Barium	**0.036**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:18	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:18	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:18	1
Chromium	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:18	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:18	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:18	1
Iron	**0.25**		0.10		mg/L		11/07/22 17:25	11/08/22 13:18	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:18	1
Nickel	**0.0069**		0.0030		mg/L		11/07/22 17:25	11/08/22 13:18	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:18	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:18	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:18	1
Vanadium	**0.0058**		0.0040		mg/L		11/07/22 17:25	11/08/22 13:18	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 23:28	1
Chloride (MCAWW 300.0)	**39**		1.5		mg/L			10/28/22 23:28	1
Sulfate (MCAWW 300.0)	**76**		1.5		mg/L			10/28/22 23:28	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Nitrate Nitrite as N (MCAWW 353.2	**11**		1.0		mg/L			11/09/22 08:56	10
Carbon, Total Organic (SM 5310D)	**2.2**		0.50		mg/L			11/01/22 22:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**590**		7.0		mg/L			11/04/22 21:00	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-21
Date Collected: 10/27/22 10:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-21
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**590**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**880**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-22
Date Collected: 10/26/22 09:27
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 16:42	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 16:42	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 16:42	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 16:42	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 16:42	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 16:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 16:42	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 16:42	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 16:42	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 16:42	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 16:42	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 16:42	1
2-Butanone	ND		10		ug/L			11/09/22 16:42	1
2-Hexanone	ND		3.0		ug/L			11/09/22 16:42	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 16:42	1
Acetone	ND		10		ug/L			11/09/22 16:42	1
Acrylonitrile	ND		10		ug/L			11/09/22 16:42	1
Benzene	ND		0.20		ug/L			11/09/22 16:42	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 16:42	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 16:42	1
Bromoform	ND		0.50		ug/L			11/09/22 16:42	1
Bromomethane	ND		0.50		ug/L			11/09/22 16:42	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 16:42	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 16:42	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 16:42	1
Chloroethane	ND		0.50		ug/L			11/09/22 16:42	1
Chloroform	ND		0.20		ug/L			11/09/22 16:42	1
Chloromethane	ND		0.50		ug/L			11/09/22 16:42	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 16:42	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 16:42	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 16:42	1
Dibromomethane	ND		0.20		ug/L			11/09/22 16:42	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 16:42	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 16:42	1
Methyl iodide	ND		0.50		ug/L			11/09/22 16:42	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 16:42	1
o-Xylene	ND		0.50		ug/L			11/09/22 16:42	1
Styrene	ND		1.0		ug/L			11/09/22 16:42	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 16:42	1
Toluene	ND		0.20		ug/L			11/09/22 16:42	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 16:42	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 16:42	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 16:42	1
Trichloroethene	ND		0.20		ug/L			11/09/22 16:42	1
Trichlorofluoromethane	**3.2**		0.50		ug/L			11/09/22 16:42	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 16:42	1
Vinyl chloride	**0.034**		0.020		ug/L			11/09/22 16:42	1

Client Sample ID: 1022-22

Date Collected: 10/26/22 09:27
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-22

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*11/09/22 16:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*11/09/22 16:42*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*11/09/22 16:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/09/22 16:42*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**150**		0.50		mg/L		11/07/22 17:28	11/08/22 19:34	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:34	1
Magnesium	**65**		0.50		mg/L		11/07/22 17:28	11/08/22 19:34	1
Manganese	**0.51**		0.020		mg/L		11/07/22 17:28	11/08/22 19:34	1
Potassium	**7.6**		3.3		mg/L		11/07/22 17:28	11/08/22 19:34	1
Sodium	**32**		0.50		mg/L		11/07/22 17:28	11/08/22 19:34	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:20	1
Arsenic	**0.0017**		0.0010		mg/L		11/07/22 17:25	11/08/22 13:20	1
Barium	**0.056**		0.0012		mg/L		11/07/22 17:25	11/08/22 13:20	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:20	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:20	1
Chromium	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 13:20	1
Cobalt	**0.00095**		0.00040		mg/L		11/07/22 17:25	11/08/22 13:20	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 13:20	1
Iron	**0.27**		0.10		mg/L		11/07/22 17:25	11/08/22 13:20	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:20	1
Nickel	**0.0049**		0.0030		mg/L		11/07/22 17:25	11/08/22 13:20	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 13:20	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 13:20	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 13:20	1
Vanadium	ND		0.0040		mg/L		11/07/22 17:25	11/08/22 13:20	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 23:40	1
Chloride (MCAWW 300.0)	**23**		1.5		mg/L			10/28/22 23:40	1
Sulfate (MCAWW 300.0)	**54**		1.5		mg/L			10/28/22 23:40	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Nitrate Nitrite as N (MCAWW 353.2	**6.8**		0.20		mg/L			11/02/22 07:53	2
Carbon, Total Organic (SM 5310D)	**1.5**		0.50		mg/L			11/01/22 22:57	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**600**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**600**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**1000**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-24
Lab Sample ID: 580-119368-23
Date Collected: 10/26/22 16:15
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N (MCAWW 353.2	14		1.0		mg/L			11/02/22 07:59	10

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-25
Date Collected: 10/27/22 09:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 19:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 19:10	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 19:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 19:10	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 19:10	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 19:10	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 19:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 19:10	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 19:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 19:10	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 19:10	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 19:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 19:10	1
2-Butanone	ND		10		ug/L			11/09/22 19:10	1
2-Hexanone	ND		3.0		ug/L			11/09/22 19:10	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 19:10	1
Acetone	ND		10		ug/L			11/09/22 19:10	1
Acrylonitrile	ND		10		ug/L			11/09/22 19:10	1
Benzene	ND		0.20		ug/L			11/09/22 19:10	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 19:10	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 19:10	1
Bromoform	ND		0.50		ug/L			11/09/22 19:10	1
Bromomethane	ND		0.50		ug/L			11/09/22 19:10	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 19:10	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 19:10	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 19:10	1
Chloroethane	ND		0.50		ug/L			11/09/22 19:10	1
Chloroform	ND		0.20		ug/L			11/09/22 19:10	1
Chloromethane	ND		0.50		ug/L			11/09/22 19:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 19:10	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 19:10	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 19:10	1
Dibromomethane	ND		0.20		ug/L			11/09/22 19:10	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 19:10	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 19:10	1
Methyl iodide	ND		0.50		ug/L			11/09/22 19:10	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 19:10	1
o-Xylene	ND		0.50		ug/L			11/09/22 19:10	1
Styrene	ND		1.0		ug/L			11/09/22 19:10	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 19:10	1
Toluene	ND		0.20		ug/L			11/09/22 19:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 19:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 19:10	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 19:10	1
Trichloroethene	ND		0.20		ug/L			11/09/22 19:10	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 19:10	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 19:10	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 19:10	1

Client Sample ID: 1022-25

Date Collected: 10/27/22 09:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-24

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*11/09/22 19:10*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/09/22 19:10*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*11/09/22 19:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/09/22 19:10*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**80**		0.50		mg/L		11/07/22 17:28	11/08/22 19:38	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:38	1
Magnesium	**47**		0.50		mg/L		11/07/22 17:28	11/08/22 19:38	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:38	1
Potassium	**5.5**		3.3		mg/L		11/07/22 17:28	11/08/22 19:38	1
Sodium	**32**		0.50		mg/L		11/07/22 17:28	11/08/22 19:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:19	1
Arsenic	**0.0034**		0.0010		mg/L		11/08/22 18:15	11/09/22 12:19	1
Barium	**0.023**		0.0012		mg/L		11/08/22 18:15	11/09/22 12:19	1
Beryllium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:19	1
Cadmium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:19	1
Chromium	**0.0018**		0.00080		mg/L		11/08/22 18:15	11/09/22 12:19	1
Cobalt	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:19	1
Copper	**0.021**		0.0020		mg/L		11/08/22 18:15	11/09/22 12:19	1
Iron	ND		0.10		mg/L		11/08/22 18:15	11/09/22 12:19	1
Lead	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:19	1
Nickel	ND		0.0030		mg/L		11/08/22 18:15	11/09/22 12:19	1
Selenium	ND		0.0080		mg/L		11/08/22 18:15	11/09/22 12:19	1
Silver	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:19	1
Thallium	ND		0.0010		mg/L		11/08/22 18:15	11/09/22 12:19	1
Vanadium	ND		0.0040		mg/L		11/08/22 18:15	11/09/22 12:19	1
Zinc	**0.0075**		0.0070		mg/L		11/08/22 18:15	11/09/22 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			10/28/22 23:52	1
Nitrate Nitrite as N (MCAWW 300.0	**1.7**		0.40		mg/L			10/28/22 23:52	1
Chloride (MCAWW 300.0)	**53**		1.5		mg/L			10/28/22 23:52	1
Sulfate (MCAWW 300.0)	**45**	**F1**	1.5		mg/L			10/28/22 23:52	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Carbon, Total Organic (SM 5310D)	**1.7**		0.50		mg/L			11/01/22 23:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**330**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**330**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**680**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-27
Date Collected: 10/25/22 10:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-25
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 09:24	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 09:24	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 09:24	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 09:24	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 09:24	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 19:47	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 09:24	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 09:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 09:24	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 09:24	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 09:24	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 09:24	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 09:24	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 09:24	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 09:24	1
Acetone	ND		10		ug/L			11/07/22 09:24	1
Benzene	ND		0.20		ug/L			11/07/22 09:24	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 09:24	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 09:24	1
Bromoform	ND		0.50		ug/L			11/07/22 09:24	1
Bromomethane	ND		0.50		ug/L			11/07/22 09:24	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 09:24	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 09:24	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 09:24	1
Chloroethane	ND		0.50		ug/L			11/07/22 09:24	1
Chloroform	ND		0.20		ug/L			11/07/22 09:24	1
Chloromethane	ND		0.50		ug/L			11/07/22 09:24	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 09:24	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 09:24	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 09:24	1
Dibromomethane	ND		0.20		ug/L			11/07/22 09:24	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 09:24	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 09:24	1
Methyl iodide	ND		0.50		ug/L			11/07/22 09:24	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 09:24	1
o-Xylene	ND		0.50		ug/L			11/07/22 09:24	1
Styrene	ND		1.0		ug/L			11/07/22 09:24	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 09:24	1
Toluene	ND		0.20		ug/L			11/07/22 09:24	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 09:24	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 09:24	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 09:24	1
Trichloroethene	ND		0.20		ug/L			11/07/22 09:24	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 09:24	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/07/22 19:47*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/07/22 19:47*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*11/07/22 19:47*	*1*

Client Sample ID: 1022-27
Date Collected: 10/25/22 10:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-25
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/07/22 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*11/07/22 09:24*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/07/22 09:24*	*1*
Dibromofluoromethane (Surr)	*117*		*80 - 120*		*11/07/22 09:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/07/22 09:24*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 18:50	1
2-Hexanone	ND		3.0		ug/L			11/04/22 18:50	1
Acrylonitrile	ND		10		ug/L			11/04/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/04/22 18:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/04/22 18:50*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/04/22 18:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/04/22 18:50*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**98**		0.50		mg/L		11/07/22 17:28	11/08/22 19:41	1
Iron	**0.85**		0.30		mg/L		11/07/22 17:28	11/08/22 19:41	1
Magnesium	**56**		0.50		mg/L		11/07/22 17:28	11/08/22 19:41	1
Manganese	**0.089**		0.020		mg/L		11/07/22 17:28	11/08/22 19:41	1
Potassium	**7.6**		3.3		mg/L		11/07/22 17:28	11/08/22 19:41	1
Sodium	**29**		0.50		mg/L		11/07/22 17:28	11/08/22 19:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:45	1
Arsenic	**0.0066**		0.0010		mg/L		11/08/22 18:15	11/09/22 12:45	1
Barium	**0.044**		0.0012		mg/L		11/08/22 18:15	11/09/22 12:45	1
Beryllium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:45	1
Cadmium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:45	1
Chromium	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:45	1
Cobalt	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:45	1
Copper	ND		0.0020		mg/L		11/08/22 18:15	11/09/22 12:45	1
Iron	**0.84**		0.10		mg/L		11/08/22 18:15	11/09/22 12:45	1
Lead	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:45	1
Nickel	ND		0.0030		mg/L		11/08/22 18:15	11/09/22 12:45	1
Selenium	ND		0.0080		mg/L		11/08/22 18:15	11/09/22 12:45	1
Silver	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:45	1
Thallium	ND		0.0010		mg/L		11/08/22 18:15	11/09/22 12:45	1
Vanadium	ND		0.0040		mg/L		11/08/22 18:15	11/09/22 12:45	1
Zinc	ND		0.0070		mg/L		11/08/22 18:15	11/09/22 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 18:18	1
Chloride (MCAWW 300.0)	**55**		1.5		mg/L			11/03/22 18:18	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-27
Date Collected: 10/25/22 10:50
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-25
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**45**		1.5		mg/L			11/03/22 18:18	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 07:07	1
Carbon, Total Organic (SM 5310D)	**1.3**		0.50		mg/L			11/02/22 00:04	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**410**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**410**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**610**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-26
Date Collected: 10/25/22 10:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/07/22 09:48	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 09:48	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 09:48	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 09:48	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 09:48	1
Vinyl acetate	ND		3.0		ug/L			11/07/22 20:12	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 09:48	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 09:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 09:48	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 09:48	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 09:48	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 09:48	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 09:48	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 09:48	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 09:48	1
Acetone	ND		10		ug/L			11/07/22 09:48	1
Benzene	ND		0.20		ug/L			11/07/22 09:48	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 09:48	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 09:48	1
Bromoform	ND		0.50		ug/L			11/07/22 09:48	1
Bromomethane	ND		0.50		ug/L			11/07/22 09:48	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 09:48	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 09:48	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 09:48	1
Chloroethane	ND		0.50		ug/L			11/07/22 09:48	1
Chloroform	ND		0.20		ug/L			11/07/22 09:48	1
Chloromethane	ND		0.50		ug/L			11/07/22 09:48	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 09:48	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 09:48	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 09:48	1
Dibromomethane	ND		0.20		ug/L			11/07/22 09:48	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 09:48	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 09:48	1
Methyl iodide	ND		0.50		ug/L			11/07/22 09:48	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 09:48	1
o-Xylene	ND		0.50		ug/L			11/07/22 09:48	1
Styrene	ND		1.0		ug/L			11/07/22 09:48	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 09:48	1
Toluene	ND		0.20		ug/L			11/07/22 09:48	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 09:48	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 09:48	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 09:48	1
Trichloroethene	ND		0.20		ug/L			11/07/22 09:48	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 09:48	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/07/22 20:12*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*11/07/22 20:12*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*11/07/22 20:12*	*1*

Client Sample ID: 1022-26
Date Collected: 10/25/22 10:20
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/07/22 20:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*11/07/22 09:48*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*11/07/22 09:48*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*11/07/22 09:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/07/22 09:48*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 19:12	1
2-Hexanone	ND		3.0		ug/L			11/04/22 19:12	1
Acrylonitrile	ND		10		ug/L			11/04/22 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/04/22 19:12*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/04/22 19:12*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/04/22 19:12*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/04/22 19:12*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**32**		0.50		mg/L		11/07/22 17:28	11/08/22 19:44	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:44	1
Magnesium	**34**		0.50		mg/L		11/07/22 17:28	11/08/22 19:44	1
Manganese	**0.035**		0.020		mg/L		11/07/22 17:28	11/08/22 19:44	1
Potassium	**15**		3.3		mg/L		11/07/22 17:28	11/08/22 19:44	1
Sodium	**15**		0.50		mg/L		11/07/22 17:28	11/08/22 19:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:48	1
Arsenic	**0.020**		0.0010		mg/L		11/08/22 18:15	11/09/22 12:48	1
Barium	**0.025**		0.0012		mg/L		11/08/22 18:15	11/09/22 12:48	1
Beryllium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:48	1
Cadmium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:48	1
Chromium	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:48	1
Cobalt	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:48	1
Copper	ND		0.0020		mg/L		11/08/22 18:15	11/09/22 12:48	1
Iron	**0.19**		0.10		mg/L		11/08/22 18:15	11/09/22 12:48	1
Lead	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:48	1
Nickel	ND		0.0030		mg/L		11/08/22 18:15	11/09/22 12:48	1
Selenium	ND		0.0080		mg/L		11/08/22 18:15	11/09/22 12:48	1
Silver	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:48	1
Thallium	ND		0.0010		mg/L		11/08/22 18:15	11/09/22 12:48	1
Vanadium	ND		0.0040		mg/L		11/08/22 18:15	11/09/22 12:48	1
Zinc	ND		0.0070		mg/L		11/08/22 18:15	11/09/22 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 19:05	1
Chloride (MCAWW 300.0)	**40**		1.5		mg/L			11/03/22 19:05	1

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-26
Lab Sample ID: 580-119368-26
Date Collected: 10/25/22 10:20
Matrix: Water
Date Received: 10/28/22 07:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (MCAWW 300.0)	**18**		1.5		mg/L			11/03/22 19:05	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 07:57	1
Carbon, Total Organic (SM 5310D)	**1.2**		0.50		mg/L			11/02/22 00:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**190**		7.0		mg/L			11/02/22 18:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**190**		7.0		mg/L			11/02/22 18:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:32	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:32	1
Total Dissolved Solids (SM 2540C)	**300**		10		mg/L			11/01/22 21:51	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-28
Date Collected: 10/26/22 13:05
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 19:35	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 19:35	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 19:35	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 19:35	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 19:35	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 19:35	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 19:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 19:35	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 19:35	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 19:35	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 19:35	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 19:35	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 19:35	1
2-Butanone	ND		10		ug/L			11/09/22 19:35	1
2-Hexanone	ND		3.0		ug/L			11/09/22 19:35	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 19:35	1
Acetone	ND		10		ug/L			11/09/22 19:35	1
Acrylonitrile	ND		10		ug/L			11/09/22 19:35	1
Benzene	ND		0.20		ug/L			11/09/22 19:35	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 19:35	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 19:35	1
Bromoform	ND		0.50		ug/L			11/09/22 19:35	1
Bromomethane	ND		0.50		ug/L			11/09/22 19:35	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 19:35	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 19:35	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 19:35	1
Chloroethane	ND		0.50		ug/L			11/09/22 19:35	1
Chloroform	ND		0.20		ug/L			11/09/22 19:35	1
Chloromethane	ND		0.50		ug/L			11/09/22 19:35	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 19:35	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 19:35	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 19:35	1
Dibromomethane	ND		0.20		ug/L			11/09/22 19:35	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 19:35	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 19:35	1
Methyl iodide	ND		0.50		ug/L			11/09/22 19:35	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 19:35	1
o-Xylene	ND		0.50		ug/L			11/09/22 19:35	1
Styrene	ND		1.0		ug/L			11/09/22 19:35	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 19:35	1
Toluene	ND		0.20		ug/L			11/09/22 19:35	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 19:35	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 19:35	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 19:35	1
Trichloroethene	ND		0.20		ug/L			11/09/22 19:35	1
Trichlorofluoromethane	**0.79**		0.50		ug/L			11/09/22 19:35	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 19:35	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 19:35	1

Client Sample ID: 1022-28

Date Collected: 10/26/22 13:05
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-27

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*11/09/22 19:35*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*11/09/22 19:35*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*11/09/22 19:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/09/22 19:35*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**100**		0.50		mg/L		11/07/22 17:28	11/08/22 19:48	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 19:48	1
Magnesium	**68**		0.50		mg/L		11/07/22 17:28	11/08/22 19:48	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 19:48	1
Potassium	**8.3**		3.3		mg/L		11/07/22 17:28	11/08/22 19:48	1
Sodium	**38**		0.50		mg/L		11/07/22 17:28	11/08/22 19:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/09/22 17:52	11/10/22 12:47	1
Arsenic	**0.0028**		0.0010		mg/L		11/09/22 17:52	11/10/22 12:47	1
Barium	**0.026**		0.0012		mg/L		11/09/22 17:52	11/10/22 12:47	1
Beryllium	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:47	1
Cadmium	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:47	1
Chromium	ND		0.00080		mg/L		11/09/22 17:52	11/10/22 12:47	1
Cobalt	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:47	1
Copper	ND		0.0020		mg/L		11/09/22 17:52	11/10/22 12:47	1
Iron	ND		0.10		mg/L		11/09/22 17:52	11/10/22 12:47	1
Lead	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:47	1
Nickel	**0.0044**		0.0030		mg/L		11/09/22 17:52	11/10/22 12:47	1
Selenium	ND		0.0080		mg/L		11/09/22 17:52	11/10/22 12:47	1
Silver	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:47	1
Thallium	ND		0.0010		mg/L		11/09/22 17:52	11/10/22 12:47	1
Vanadium	ND		0.0040		mg/L		11/09/22 17:52	11/10/22 12:47	1
Zinc	ND		0.0070		mg/L		11/09/22 17:52	11/10/22 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 19:16	1
Chloride (MCAWW 300.0)	**73**		1.5		mg/L			11/03/22 19:16	1
Sulfate (MCAWW 300.0)	**70**		1.5		mg/L			11/03/22 19:16	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Nitrate Nitrite as N (MCAWW 353.2	**3.8**		0.10		mg/L			11/02/22 07:55	1
Carbon, Total Organic (SM 5310D)	**2.1**		0.50		mg/L			11/02/22 01:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**440**		7.0		mg/L			11/02/22 18:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**440**		7.0		mg/L			11/02/22 18:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/02/22 18:35	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/02/22 18:35	1
Total Dissolved Solids (SM 2540C)	**800**		10		mg/L			11/02/22 14:15	1

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Client Sample ID: 1022-29
Date Collected: 10/26/22 10:35
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-28
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.30		ug/L			11/09/22 19:59	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 19:59	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 19:59	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 19:59	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 19:59	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 19:59	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 19:59	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 19:59	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 19:59	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 19:59	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 19:59	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 19:59	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 19:59	1
2-Butanone	ND		10		ug/L			11/09/22 19:59	1
2-Hexanone	ND		3.0		ug/L			11/09/22 19:59	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 19:59	1
Acetone	ND		10		ug/L			11/09/22 19:59	1
Acrylonitrile	ND		10		ug/L			11/09/22 19:59	1
Benzene	ND		0.20		ug/L			11/09/22 19:59	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 19:59	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 19:59	1
Bromoform	ND		0.50		ug/L			11/09/22 19:59	1
Bromomethane	ND		0.50		ug/L			11/09/22 19:59	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 19:59	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 19:59	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 19:59	1
Chloroethane	ND		0.50		ug/L			11/09/22 19:59	1
Chloroform	ND		0.20		ug/L			11/09/22 19:59	1
Chloromethane	ND		0.50		ug/L			11/09/22 19:59	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 19:59	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 19:59	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 19:59	1
Dibromomethane	ND		0.20		ug/L			11/09/22 19:59	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 19:59	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 19:59	1
Methyl iodide	ND		0.50		ug/L			11/09/22 19:59	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 19:59	1
o-Xylene	ND		0.50		ug/L			11/09/22 19:59	1
Styrene	ND		1.0		ug/L			11/09/22 19:59	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 19:59	1
Toluene	ND		0.20		ug/L			11/09/22 19:59	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 19:59	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 19:59	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 19:59	1
Trichloroethene	ND		0.20		ug/L			11/09/22 19:59	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 19:59	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 19:59	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 19:59	1

Client Sample ID: 1022-29

Date Collected: 10/26/22 10:35
Date Received: 10/28/22 07:50

Lab Sample ID: 580-119368-28

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*80 - 120*		*11/09/22 19:59*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*11/09/22 19:59*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*11/09/22 19:59*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/09/22 19:59*	*1*

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**71**		0.50		mg/L		11/08/22 18:11	11/09/22 17:09	1
Iron	ND		0.30		mg/L		11/08/22 18:11	11/09/22 17:09	1
Magnesium	**27**		0.50		mg/L		11/08/22 18:11	11/09/22 17:09	1
Manganese	**0.028**		0.020		mg/L		11/08/22 18:11	11/09/22 17:09	1
Potassium	**6.4**		3.3		mg/L		11/08/22 18:11	11/09/22 17:09	1
Sodium	**20**		0.50		mg/L		11/08/22 18:11	11/09/22 17:09	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:50	1
Arsenic	**0.0086**		0.0010		mg/L		11/08/22 18:15	11/09/22 12:50	1
Barium	**0.031**		0.0012		mg/L		11/08/22 18:15	11/09/22 12:50	1
Beryllium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:50	1
Cadmium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:50	1
Chromium	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:50	1
Cobalt	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:50	1
Copper	ND		0.0020		mg/L		11/08/22 18:15	11/09/22 12:50	1
Iron	**0.30**		0.10		mg/L		11/08/22 18:15	11/09/22 12:50	1
Lead	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:50	1
Nickel	ND		0.0030		mg/L		11/08/22 18:15	11/09/22 12:50	1
Selenium	ND		0.0080		mg/L		11/08/22 18:15	11/09/22 12:50	1
Silver	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:50	1
Thallium	ND		0.0010		mg/L		11/08/22 18:15	11/09/22 12:50	1
Vanadium	ND		0.0040		mg/L		11/08/22 18:15	11/09/22 12:50	1
Zinc	ND		0.0070		mg/L		11/08/22 18:15	11/09/22 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	ND		0.20		mg/L			11/03/22 19:40	1
Chloride (MCAWW 300.0)	**37**		1.5		mg/L			11/03/22 19:40	1
Sulfate (MCAWW 300.0)	**25**		1.5		mg/L			11/03/22 19:40	1
Ammonia (MCAWW 350.1)	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1
Nitrate Nitrite as N (MCAWW 353.2)	ND		0.10		mg/L			11/02/22 07:35	1
Carbon, Total Organic (SM 5310D)	**0.92**		0.50		mg/L			11/02/22 01:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**260**		7.0		mg/L			11/04/22 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		7.0		mg/L			11/04/22 21:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		7.0		mg/L			11/04/22 21:00	1
Hydroxide Alkalinity as CaCO3 (SM 2320B)	ND		5.0		mg/L			11/04/22 21:00	1
Total Dissolved Solids (SM 2540C)	**640**		10		mg/L			11/02/22 14:15	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-408917/7
Matrix: Water
Analysis Batch: 408917

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10		ug/L			11/04/22 12:20	1
2-Hexanone	ND		3.0		ug/L			11/04/22 12:20	1
Acrylonitrile	ND		10		ug/L			11/04/22 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/04/22 12:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*11/04/22 12:20*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*11/04/22 12:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/04/22 12:20*	*1*

Lab Sample ID: LCS 580-408917/4
Matrix: Water
Analysis Batch: 408917

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-Butanone			25.0	24.1		ug/L		96	37 - 150		
2-Hexanone			25.0	26.2		ug/L		105	56 - 150		
Acrylonitrile			50.0	53.3		ug/L		107	50 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 580-408917/5
Matrix: Water
Analysis Batch: 408917

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone			25.0	22.7		ug/L		91	37 - 150	6	35
2-Hexanone			25.0	25.6		ug/L		102	56 - 150	2	29
Acrylonitrile			50.0	50.0		ug/L		100	50 - 145	6	33

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-409021/6
Matrix: Water
Analysis Batch: 409021

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		0.30		ug/L			11/07/22 02:30	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/07/22 02:30	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/07/22 02:30	1

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

Lab Sample ID: MB 580-409021/6
Matrix: Water
Analysis Batch: 409021

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.20		ug/L			11/07/22 02:30	1
1,1-Dichloroethane	ND		0.20		ug/L			11/07/22 02:30	1
1,1-Dichloroethene	ND		0.20		ug/L			11/07/22 02:30	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/07/22 02:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/07/22 02:30	1
1,2-Dibromoethane	ND		0.10		ug/L			11/07/22 02:30	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/07/22 02:30	1
1,2-Dichloroethane	ND		0.20		ug/L			11/07/22 02:30	1
1,2-Dichloropropane	ND		0.20		ug/L			11/07/22 02:30	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/07/22 02:30	1
4-Methyl-2-pentanone	ND		10		ug/L			11/07/22 02:30	1
Acetone	ND		10		ug/L			11/07/22 02:30	1
Benzene	ND		0.20		ug/L			11/07/22 02:30	1
Bromochloromethane	ND		0.20		ug/L			11/07/22 02:30	1
Bromodichloromethane	ND		0.20		ug/L			11/07/22 02:30	1
Bromoform	ND		0.50		ug/L			11/07/22 02:30	1
Bromomethane	ND		0.50		ug/L			11/07/22 02:30	1
Carbon disulfide	ND		0.30		ug/L			11/07/22 02:30	1
Carbon tetrachloride	ND		0.20		ug/L			11/07/22 02:30	1
Chlorobenzene	ND		0.20		ug/L			11/07/22 02:30	1
Chloroethane	ND		0.50		ug/L			11/07/22 02:30	1
Chloroform	ND		0.20		ug/L			11/07/22 02:30	1
Chloromethane	ND		0.50		ug/L			11/07/22 02:30	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 02:30	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 02:30	1
Dibromochloromethane	ND		0.20		ug/L			11/07/22 02:30	1
Dibromomethane	ND		0.20		ug/L			11/07/22 02:30	1
Ethylbenzene	ND		0.20		ug/L			11/07/22 02:30	1
m,p-Xylene	ND		0.50		ug/L			11/07/22 02:30	1
Methyl iodide	ND		0.50		ug/L			11/07/22 02:30	1
Methylene Chloride	ND		5.0		ug/L			11/07/22 02:30	1
o-Xylene	ND		0.50		ug/L			11/07/22 02:30	1
Styrene	ND		1.0		ug/L			11/07/22 02:30	1
Tetrachloroethene	ND		0.50		ug/L			11/07/22 02:30	1
Toluene	ND		0.20		ug/L			11/07/22 02:30	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/07/22 02:30	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/07/22 02:30	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/07/22 02:30	1
Trichloroethene	ND		0.20		ug/L			11/07/22 02:30	1
Trichlorofluoromethane	ND		0.50		ug/L			11/07/22 02:30	1
Vinyl chloride	ND		0.020		ug/L			11/07/22 02:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*11/07/22 02:30*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/07/22 02:30*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*11/07/22 02:30*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/07/22 02:30*	*1*

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

Lab Sample ID: LCS 580-409021/3
Matrix: Water
Analysis Batch: 409021

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	5.03		ug/L		101	69 - 127
1,1,1-Trichloroethane	5.00	4.69		ug/L		94	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.07		ug/L		101	67 - 136
1,1,2-Trichloroethane	5.00	5.09		ug/L		102	73 - 127
1,1-Dichloroethane	5.00	4.91		ug/L		98	74 - 120
1,1-Dichloroethene	5.00	4.86		ug/L		97	60 - 129
1,2,3-Trichloropropane	5.00	5.09		ug/L		102	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.60		ug/L		112	55 - 135
1,2-Dibromoethane	5.00	4.71		ug/L		94	61 - 143
1,2-Dichlorobenzene	5.00	5.33		ug/L		107	72 - 129
1,2-Dichloroethane	5.00	4.36		ug/L		87	74 - 127
1,2-Dichloropropane	5.00	5.05		ug/L		101	69 - 130
1,4-Dichlorobenzene	5.00	4.58		ug/L		92	71 - 129
4-Methyl-2-pentanone	25.0	22.8		ug/L		91	63 - 137
Acetone	25.0	29.8		ug/L		119	49 - 150
Benzene	5.00	5.00		ug/L		100	80 - 120
Bromochloromethane	5.00	4.85		ug/L		97	79 - 121
Bromodichloromethane	5.00	5.02		ug/L		100	74 - 131
Bromoform	5.00	5.25		ug/L		105	48 - 127
Bromomethane	5.00	5.23		ug/L		105	51 - 148
Carbon disulfide	5.00	4.84		ug/L		97	54 - 142
Carbon tetrachloride	5.00	4.78		ug/L		96	66 - 130
Chlorobenzene	5.00	4.79		ug/L		96	74 - 123
Chloroethane	5.00	5.17		ug/L		103	54 - 140
Chloroform	5.00	4.93		ug/L		99	75 - 120
Chloromethane	5.00	5.27		ug/L		105	32 - 150
cis-1,2-Dichloroethene	5.00	4.63		ug/L		93	72 - 120
cis-1,3-Dichloropropene	5.00	4.51		ug/L		90	77 - 131
Dibromochloromethane	5.00	5.28		ug/L		106	62 - 141
Dibromomethane	5.00	5.07		ug/L		101	65 - 141
Ethylbenzene	5.00	5.07		ug/L		101	80 - 124
m,p-Xylene	5.00	4.67		ug/L		93	75 - 124
Methyl iodide	5.00	4.90		ug/L		98	60 - 128
Methylene Chloride	5.00	4.78	J	ug/L		96	40 - 142
o-Xylene	5.00	4.83		ug/L		97	71 - 124
Styrene	5.00	4.77		ug/L		95	74 - 127
Tetrachloroethene	5.00	5.10		ug/L		102	75 - 124
Toluene	5.00	5.14		ug/L		103	80 - 126
trans-1,2-Dichloroethene	5.00	5.32		ug/L		106	69 - 121
trans-1,3-Dichloropropene	5.00	4.36		ug/L		87	71 - 138
trans-1,4-Dichloro-2-butene	5.00	2.67		ug/L		53	20 - 150
Trichloroethene	5.00	5.05		ug/L		101	72 - 120
Trichlorofluoromethane	5.00	5.42		ug/L		108	60 - 132
Vinyl chloride	5.00	5.18		ug/L		104	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*

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

Lab Sample ID: LCS 580-409021/3
Matrix: Water
Analysis Batch: 409021

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 580-409021/4
Matrix: Water
Analysis Batch: 409021

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	4.80		ug/L		96	69 - 127	5	22
1,1,1-Trichloroethane			5.00	4.53		ug/L		91	70 - 121	3	24
1,1,2,2-Tetrachloroethane			5.00	4.68		ug/L		94	67 - 136	8	24
1,1,2-Trichloroethane			5.00	4.76		ug/L		95	73 - 127	7	22
1,1-Dichloroethane			5.00	4.86		ug/L		97	74 - 120	1	26
1,1-Dichloroethene			5.00	4.63		ug/L		93	60 - 129	5	29
1,2,3-Trichloropropane			5.00	4.96		ug/L		99	67 - 135	3	25
1,2-Dibromo-3-Chloropropane			5.00	5.08		ug/L		102	55 - 135	10	29
1,2-Dibromoethane			5.00	4.72		ug/L		94	61 - 143	0	22
1,2-Dichlorobenzene			5.00	4.99		ug/L		100	72 - 129	7	22
1,2-Dichloroethane			5.00	4.52		ug/L		90	74 - 127	4	21
1,2-Dichloropropane			5.00	4.67		ug/L		93	69 - 130	8	22
1,4-Dichlorobenzene			5.00	4.42		ug/L		88	71 - 129	4	22
4-Methyl-2-pentanone			25.0	22.6		ug/L		90	63 - 137	1	26
Acetone			25.0	26.8		ug/L		107	49 - 150	10	24
Benzene			5.00	4.76		ug/L		95	80 - 120	5	22
Bromochloromethane			5.00	4.99		ug/L		100	79 - 121	3	20
Bromodichloromethane			5.00	5.06		ug/L		101	74 - 131	1	21
Bromoform			5.00	5.20		ug/L		104	48 - 127	1	23
Bromomethane			5.00	4.92		ug/L		98	51 - 148	6	35
Carbon disulfide			5.00	4.74		ug/L		95	54 - 142	2	34
Carbon tetrachloride			5.00	4.62		ug/L		92	66 - 130	3	24
Chlorobenzene			5.00	4.83		ug/L		97	74 - 123	1	21
Chloroethane			5.00	5.17		ug/L		103	54 - 140	0	33
Chloroform			5.00	4.86		ug/L		97	75 - 120	1	21
Chloromethane			5.00	4.83		ug/L		97	32 - 150	9	33
cis-1,2-Dichloroethene			5.00	4.10		ug/L		82	72 - 120	12	22
cis-1,3-Dichloropropene			5.00	4.41		ug/L		88	77 - 131	2	24
Dibromochloromethane			5.00	4.94		ug/L		99	62 - 141	7	22
Dibromomethane			5.00	5.04		ug/L		101	65 - 141	1	22
Ethylbenzene			5.00	4.82		ug/L		96	80 - 124	5	22
m,p-Xylene			5.00	4.32		ug/L		86	75 - 124	8	22
Methyl iodide			5.00	4.71		ug/L		94	60 - 128	4	39
Methylene Chloride			5.00	4.71	J	ug/L		94	40 - 142	1	25
o-Xylene			5.00	4.62		ug/L		92	71 - 124	4	23
Styrene			5.00	4.55		ug/L		91	74 - 127	5	22
Tetrachloroethene			5.00	4.89		ug/L		98	75 - 124	4	20
Toluene			5.00	4.66		ug/L		93	80 - 126	10	20
trans-1,2-Dichloroethene			5.00	4.88		ug/L		98	69 - 121	9	27
trans-1,3-Dichloropropene			5.00	4.42		ug/L		88	71 - 138	1	26

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

Lab Sample ID: LCSD 580-409021/4
Matrix: Water
Analysis Batch: 409021

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			5.00	2.84		ug/L		57	20 - 150	6	35
Trichloroethene			5.00	4.90		ug/L		98	72 - 120	3	22
Trichlorofluoromethane			5.00	5.13		ug/L		103	60 - 132	6	32
Vinyl chloride			5.00	4.98		ug/L		100	41 - 150	4	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 580-409056/4
Matrix: Water
Analysis Batch: 409056

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		3.0		ug/L			11/07/22 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/07/22 11:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/07/22 11:22*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*		*11/07/22 11:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*11/07/22 11:22*	*1*

Lab Sample ID: LCS 580-409056/5
Matrix: Water
Analysis Batch: 409056

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate			25.0	22.1		ug/L		88	38 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*80 - 120*

Lab Sample ID: LCSD 580-409056/6
Matrix: Water
Analysis Batch: 409056

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
Vinyl acetate			25.0	23.6		ug/L		94	38 - 144	7	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*

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

Lab Sample ID: LCSD 580-409056/6
Matrix: Water
Analysis Batch: 409056

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*

Lab Sample ID: MB 580-409113/6
Matrix: Water
Analysis Batch: 409113

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		0.30		ug/L			11/08/22 02:22	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/08/22 02:22	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/08/22 02:22	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/08/22 02:22	1
1,1-Dichloroethane	ND		0.20		ug/L			11/08/22 02:22	1
1,1-Dichloroethene	ND		0.20		ug/L			11/08/22 02:22	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/08/22 02:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/08/22 02:22	1
1,2-Dibromoethane	ND		0.10		ug/L			11/08/22 02:22	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/08/22 02:22	1
1,2-Dichloroethane	ND		0.20		ug/L			11/08/22 02:22	1
1,2-Dichloropropane	ND		0.20		ug/L			11/08/22 02:22	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/08/22 02:22	1
4-Methyl-2-pentanone	ND		10		ug/L			11/08/22 02:22	1
Acetone	ND		10		ug/L			11/08/22 02:22	1
Benzene	ND		0.20		ug/L			11/08/22 02:22	1
Bromochloromethane	ND		0.20		ug/L			11/08/22 02:22	1
Bromodichloromethane	ND		0.20		ug/L			11/08/22 02:22	1
Bromoform	ND		0.50		ug/L			11/08/22 02:22	1
Bromomethane	ND		0.50		ug/L			11/08/22 02:22	1
Carbon disulfide	ND		0.30		ug/L			11/08/22 02:22	1
Carbon tetrachloride	ND		0.20		ug/L			11/08/22 02:22	1
Chlorobenzene	ND		0.20		ug/L			11/08/22 02:22	1
Chloroethane	ND		0.50		ug/L			11/08/22 02:22	1
Chloroform	ND		0.20		ug/L			11/08/22 02:22	1
Chloromethane	ND		0.50		ug/L			11/08/22 02:22	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/08/22 02:22	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/08/22 02:22	1
Dibromochloromethane	ND		0.20		ug/L			11/08/22 02:22	1
Dibromomethane	ND		0.20		ug/L			11/08/22 02:22	1
Ethylbenzene	ND		0.20		ug/L			11/08/22 02:22	1
m,p-Xylene	ND		0.50		ug/L			11/08/22 02:22	1
Methyl iodide	ND		0.50		ug/L			11/08/22 02:22	1
Methylene Chloride	ND		5.0		ug/L			11/08/22 02:22	1
o-Xylene	ND		0.50		ug/L			11/08/22 02:22	1
Styrene	ND		1.0		ug/L			11/08/22 02:22	1
Tetrachloroethene	ND		0.50		ug/L			11/08/22 02:22	1
Toluene	ND		0.20		ug/L			11/08/22 02:22	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/08/22 02:22	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/08/22 02:22	1

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

Lab Sample ID: MB 580-409113/6
Matrix: Water
Analysis Batch: 409113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/08/22 02:22	1
Trichloroethene	ND		0.20		ug/L			11/08/22 02:22	1
Trichlorofluoromethane	ND		0.50		ug/L			11/08/22 02:22	1
Vinyl chloride	ND		0.020		ug/L			11/08/22 02:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*11/08/22 02:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/08/22 02:22*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*11/08/22 02:22*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/08/22 02:22*	*1*

Lab Sample ID: LCS 580-409113/3
Matrix: Water
Analysis Batch: 409113

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	4.87		ug/L		97	69 - 127
1,1,1-Trichloroethane	5.00	4.66		ug/L		93	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.45		ug/L		109	67 - 136
1,1,2-Trichloroethane	5.00	5.01		ug/L		100	73 - 127
1,1-Dichloroethane	5.00	5.25		ug/L		105	74 - 120
1,1-Dichloroethene	5.00	4.37		ug/L		87	60 - 129
1,2,3-Trichloropropane	5.00	5.40		ug/L		108	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	5.47		ug/L		109	55 - 135
1,2-Dibromoethane	5.00	4.83		ug/L		97	61 - 143
1,2-Dichlorobenzene	5.00	5.41		ug/L		108	72 - 129
1,2-Dichloroethane	5.00	4.52		ug/L		90	74 - 127
1,2-Dichloropropane	5.00	5.45		ug/L		109	69 - 130
1,4-Dichlorobenzene	5.00	5.14		ug/L		103	71 - 129
4-Methyl-2-pentanone	25.0	25.8		ug/L		103	63 - 137
Acetone	25.0	28.5		ug/L		114	49 - 150
Benzene	5.00	5.22		ug/L		104	80 - 120
Bromochloromethane	5.00	4.51		ug/L		90	79 - 121
Bromodichloromethane	5.00	5.04		ug/L		101	74 - 131
Bromoform	5.00	4.84		ug/L		97	48 - 127
Bromomethane	5.00	4.35		ug/L		87	51 - 148
Carbon disulfide	5.00	4.59		ug/L		92	54 - 142
Carbon tetrachloride	5.00	4.52		ug/L		90	66 - 130
Chlorobenzene	5.00	5.05		ug/L		101	74 - 123
Chloroethane	5.00	4.73		ug/L		95	54 - 140
Chloroform	5.00	4.89		ug/L		98	75 - 120
Chloromethane	5.00	4.80		ug/L		96	32 - 150
cis-1,2-Dichloroethene	5.00	4.68		ug/L		94	72 - 120
cis-1,3-Dichloropropene	5.00	4.90		ug/L		98	77 - 131
Dibromochloromethane	5.00	4.86		ug/L		97	62 - 141
Dibromomethane	5.00	4.72		ug/L		94	65 - 141
Ethylbenzene	5.00	5.26		ug/L		105	80 - 124
m,p-Xylene	5.00	4.95		ug/L		99	75 - 124

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

Lab Sample ID: LCS 580-409113/3
Matrix: Water
Analysis Batch: 409113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl iodide	5.00	4.11		ug/L		82	60 - 128
Methylene Chloride	5.00	4.36	J	ug/L		87	40 - 142
o-Xylene	5.00	5.05		ug/L		101	71 - 124
Styrene	5.00	4.80		ug/L		96	74 - 127
Tetrachloroethene	5.00	4.92		ug/L		98	75 - 124
Toluene	5.00	5.15		ug/L		103	80 - 126
trans-1,2-Dichloroethene	5.00	4.22		ug/L		84	69 - 121
trans-1,3-Dichloropropene	5.00	5.02		ug/L		100	71 - 138
trans-1,4-Dichloro-2-butene	5.00	3.80		ug/L		76	20 - 150
Trichloroethene	5.00	4.88		ug/L		98	72 - 120
Trichlorofluoromethane	5.00	4.97		ug/L		99	60 - 132
Vinyl chloride	5.00	4.76		ug/L		95	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-409113/4
Matrix: Water
Analysis Batch: 409113

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	4.85		ug/L		97	69 - 127	0	22
1,1,1-Trichloroethane	5.00	4.58		ug/L		92	70 - 121	2	24
1,1,2,2-Tetrachloroethane	5.00	4.85		ug/L		97	67 - 136	12	24
1,1,2-Trichloroethane	5.00	4.92		ug/L		98	73 - 127	2	22
1,1-Dichloroethane	5.00	5.07		ug/L		101	74 - 120	3	26
1,1-Dichloroethene	5.00	4.21		ug/L		84	60 - 129	4	29
1,2,3-Trichloropropane	5.00	5.25		ug/L		105	67 - 135	3	25
1,2-Dibromo-3-Chloropropane	5.00	5.42		ug/L		108	55 - 135	1	29
1,2-Dibromoethane	5.00	4.68		ug/L		94	61 - 143	3	22
1,2-Dichlorobenzene	5.00	5.28		ug/L		106	72 - 129	2	22
1,2-Dichloroethane	5.00	4.36		ug/L		87	74 - 127	4	21
1,2-Dichloropropane	5.00	5.07		ug/L		101	69 - 130	7	22
1,4-Dichlorobenzene	5.00	4.71		ug/L		94	71 - 129	9	22
4-Methyl-2-pentanone	25.0	25.3		ug/L		101	63 - 137	2	26
Acetone	25.0	25.6		ug/L		102	49 - 150	11	24
Benzene	5.00	5.07		ug/L		101	80 - 120	3	22
Bromochloromethane	5.00	4.49		ug/L		90	79 - 121	0	20
Bromodichloromethane	5.00	4.68		ug/L		94	74 - 131	7	21
Bromoform	5.00	4.62		ug/L		92	48 - 127	5	23
Bromomethane	5.00	4.27		ug/L		85	51 - 148	2	35
Carbon disulfide	5.00	4.48		ug/L		90	54 - 142	2	34
Carbon tetrachloride	5.00	4.38		ug/L		88	66 - 130	3	24
Chlorobenzene	5.00	4.97		ug/L		99	74 - 123	1	21
Chloroethane	5.00	4.80		ug/L		96	54 - 140	1	33

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

Lab Sample ID: LCSD 580-409113/4
Matrix: Water
Analysis Batch: 409113

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
Chloroform			5.00	4.84		ug/L		97	75 - 120	1	21
Chloromethane			5.00	4.58		ug/L		92	32 - 150	5	33
cis-1,2-Dichloroethene			5.00	5.06		ug/L		101	72 - 120	8	22
cis-1,3-Dichloropropene			5.00	5.02		ug/L		100	77 - 131	2	24
Dibromochloromethane			5.00	4.73		ug/L		95	62 - 141	3	22
Dibromomethane			5.00	4.65		ug/L		93	65 - 141	1	22
Ethylbenzene			5.00	5.29		ug/L		106	80 - 124	1	22
m,p-Xylene			5.00	4.84		ug/L		97	75 - 124	2	22
Methyl iodide			5.00	4.00		ug/L		80	60 - 128	3	39
Methylene Chloride			5.00	4.33	J	ug/L		87	40 - 142	1	25
o-Xylene			5.00	5.10		ug/L		102	71 - 124	1	23
Styrene			5.00	4.87		ug/L		97	74 - 127	1	22
Tetrachloroethene			5.00	4.83		ug/L		97	75 - 124	2	20
Toluene			5.00	5.24		ug/L		105	80 - 126	2	20
trans-1,2-Dichloroethene			5.00	4.24		ug/L		85	69 - 121	1	27
trans-1,3-Dichloropropene			5.00	5.04		ug/L		101	71 - 138	0	26
trans-1,4-Dichloro-2-butene			5.00	3.81		ug/L		76	20 - 150	0	35
Trichloroethene			5.00	4.74		ug/L		95	72 - 120	3	22
Trichlorofluoromethane			5.00	4.90		ug/L		98	60 - 132	1	32
Vinyl chloride			5.00	4.61		ug/L		92	41 - 150	3	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: MB 580-409393/7
Matrix: Water
Analysis Batch: 409393

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		0.30		ug/L			11/09/22 12:10	1
1,1,1-Trichloroethane	ND		0.20		ug/L			11/09/22 12:10	1
1,1,2,2-Tetrachloroethane	ND		0.20		ug/L			11/09/22 12:10	1
1,1,2-Trichloroethane	ND		0.20		ug/L			11/09/22 12:10	1
1,1-Dichloroethane	ND		0.20		ug/L			11/09/22 12:10	1
1,1-Dichloroethene	ND		0.20		ug/L			11/09/22 12:10	1
1,2,3-Trichloropropane	ND		0.20		ug/L			11/09/22 12:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			11/09/22 12:10	1
1,2-Dibromoethane	ND		0.10		ug/L			11/09/22 12:10	1
1,2-Dichlorobenzene	ND		0.30		ug/L			11/09/22 12:10	1
1,2-Dichloroethane	ND		0.20		ug/L			11/09/22 12:10	1
1,2-Dichloropropane	ND		0.20		ug/L			11/09/22 12:10	1
1,4-Dichlorobenzene	ND		0.30		ug/L			11/09/22 12:10	1
2-Butanone	ND		10		ug/L			11/09/22 12:10	1
2-Hexanone	ND		3.0		ug/L			11/09/22 12:10	1
4-Methyl-2-pentanone	ND		10		ug/L			11/09/22 12:10	1

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

Lab Sample ID: MB 580-409393/7
Matrix: Water
Analysis Batch: 409393

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10		ug/L			11/09/22 12:10	1
Acrylonitrile	ND		10		ug/L			11/09/22 12:10	1
Benzene	ND		0.20		ug/L			11/09/22 12:10	1
Bromochloromethane	ND		0.20		ug/L			11/09/22 12:10	1
Bromodichloromethane	ND		0.20		ug/L			11/09/22 12:10	1
Bromoform	ND		0.50		ug/L			11/09/22 12:10	1
Bromomethane	ND		0.50		ug/L			11/09/22 12:10	1
Carbon disulfide	ND		0.30		ug/L			11/09/22 12:10	1
Carbon tetrachloride	ND		0.20		ug/L			11/09/22 12:10	1
Chlorobenzene	ND		0.20		ug/L			11/09/22 12:10	1
Chloroethane	ND		0.50		ug/L			11/09/22 12:10	1
Chloroform	ND		0.20		ug/L			11/09/22 12:10	1
Chloromethane	ND		0.50		ug/L			11/09/22 12:10	1
cis-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 12:10	1
cis-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 12:10	1
Dibromochloromethane	ND		0.20		ug/L			11/09/22 12:10	1
Dibromomethane	ND		0.20		ug/L			11/09/22 12:10	1
Ethylbenzene	ND		0.20		ug/L			11/09/22 12:10	1
m,p-Xylene	ND		0.50		ug/L			11/09/22 12:10	1
Methyl iodide	ND		0.50		ug/L			11/09/22 12:10	1
Methylene Chloride	ND		5.0		ug/L			11/09/22 12:10	1
o-Xylene	ND		0.50		ug/L			11/09/22 12:10	1
Styrene	ND		1.0		ug/L			11/09/22 12:10	1
Tetrachloroethene	ND		0.50		ug/L			11/09/22 12:10	1
Toluene	ND		0.20		ug/L			11/09/22 12:10	1
trans-1,2-Dichloroethene	ND		0.20		ug/L			11/09/22 12:10	1
trans-1,3-Dichloropropene	ND		0.20		ug/L			11/09/22 12:10	1
trans-1,4-Dichloro-2-butene	ND		2.0		ug/L			11/09/22 12:10	1
Trichloroethene	ND		0.20		ug/L			11/09/22 12:10	1
Trichlorofluoromethane	ND		0.50		ug/L			11/09/22 12:10	1
Vinyl acetate	ND		2.0		ug/L			11/09/22 12:10	1
Vinyl chloride	ND		0.020		ug/L			11/09/22 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*11/09/22 12:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*11/09/22 12:10*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*11/09/22 12:10*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/22 12:10*	*1*

Lab Sample ID: LCS 580-409393/4
Matrix: Water
Analysis Batch: 409393

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	69 - 127
1,1,1-Trichloroethane	5.00	5.17		ug/L		103	70 - 121
1,1,2,2-Tetrachloroethane	5.00	5.19		ug/L		104	67 - 136
1,1,2-Trichloroethane	5.00	4.82		ug/L		96	73 - 127

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

Lab Sample ID: LCS 580-409393/4
Matrix: Water
Analysis Batch: 409393

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	5.00	5.06		ug/L		101	74 - 120
1,1-Dichloroethene	5.00	5.42		ug/L		108	60 - 129
1,2,3-Trichloropropane	5.00	5.10		ug/L		102	67 - 135
1,2-Dibromo-3-Chloropropane	5.00	4.35		ug/L		87	55 - 135
1,2-Dibromoethane	5.00	5.18		ug/L		104	61 - 143
1,2-Dichlorobenzene	5.00	5.32		ug/L		106	72 - 129
1,2-Dichloroethane	5.00	4.90		ug/L		98	74 - 127
1,2-Dichloropropane	5.00	4.94		ug/L		99	69 - 130
1,4-Dichlorobenzene	5.00	5.24		ug/L		105	71 - 129
2-Butanone	25.0	24.0		ug/L		96	37 - 150
2-Hexanone	25.0	26.4		ug/L		106	56 - 150
4-Methyl-2-pentanone	25.0	24.3		ug/L		97	63 - 137
Acetone	25.0	28.8		ug/L		115	49 - 150
Acrylonitrile	50.0	54.3		ug/L		109	50 - 145
Benzene	5.00	5.16		ug/L		103	80 - 120
Bromochloromethane	5.00	5.21		ug/L		104	79 - 121
Bromodichloromethane	5.00	5.07		ug/L		101	74 - 131
Bromoform	5.00	4.46		ug/L		89	48 - 127
Bromomethane	5.00	6.13		ug/L		123	51 - 148
Carbon disulfide	5.00	5.83		ug/L		117	54 - 142
Carbon tetrachloride	5.00	5.04		ug/L		101	66 - 130
Chlorobenzene	5.00	5.08		ug/L		102	74 - 123
Chloroethane	5.00	6.23		ug/L		125	54 - 140
Chloroform	5.00	5.12		ug/L		102	75 - 120
Chloromethane	5.00	6.59		ug/L		132	32 - 150
cis-1,2-Dichloroethene	5.00	5.22		ug/L		104	72 - 120
cis-1,3-Dichloropropene	5.00	4.83		ug/L		97	77 - 131
Dibromochloromethane	5.00	4.65		ug/L		93	62 - 141
Dibromomethane	5.00	5.21		ug/L		104	65 - 141
Ethylbenzene	5.00	5.33		ug/L		107	80 - 124
m,p-Xylene	5.00	5.27		ug/L		105	75 - 124
Methyl iodide	5.00	5.46		ug/L		109	60 - 128
Methylene Chloride	5.00	5.39		ug/L		108	40 - 142
o-Xylene	5.00	5.57		ug/L		111	71 - 124
Styrene	5.00	5.51		ug/L		110	74 - 127
Tetrachloroethene	5.00	4.68		ug/L		94	75 - 124
Toluene	5.00	4.88		ug/L		98	80 - 126
trans-1,2-Dichloroethene	5.00	5.26		ug/L		105	69 - 121
trans-1,3-Dichloropropene	5.00	4.98		ug/L		100	71 - 138
trans-1,4-Dichloro-2-butene	5.00	5.06		ug/L		101	20 - 150
Trichloroethene	5.00	4.78		ug/L		96	72 - 120
Trichlorofluoromethane	5.00	5.18		ug/L		104	60 - 132
Vinyl acetate	12.5	11.1		ug/L		89	38 - 150
Vinyl chloride	5.00	5.78		ug/L		116	41 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*

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

Lab Sample ID: LCS 580-409393/4
Matrix: Water
Analysis Batch: 409393

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 580-409393/5
Matrix: Water
Analysis Batch: 409393

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	5.08		ug/L		102	69 - 127	0	22
1,1,1-Trichloroethane			5.00	4.96		ug/L		99	70 - 121	4	24
1,1,2,2-Tetrachloroethane			5.00	5.35		ug/L		107	67 - 136	3	24
1,1,2-Trichloroethane			5.00	4.90		ug/L		98	73 - 127	2	22
1,1-Dichloroethane			5.00	4.99		ug/L		100	74 - 120	2	26
1,1-Dichloroethene			5.00	5.21		ug/L		104	60 - 129	4	29
1,2,3-Trichloropropane			5.00	5.23		ug/L		105	67 - 135	2	25
1,2-Dibromo-3-Chloropropane			5.00	4.48		ug/L		90	55 - 135	3	29
1,2-Dibromoethane			5.00	5.26		ug/L		105	61 - 143	2	22
1,2-Dichlorobenzene			5.00	5.23		ug/L		105	72 - 129	2	22
1,2-Dichloroethane			5.00	4.97		ug/L		99	74 - 127	1	21
1,2-Dichloropropane			5.00	4.87		ug/L		97	69 - 130	2	22
1,4-Dichlorobenzene			5.00	5.11		ug/L		102	71 - 129	2	22
2-Butanone			25.0	25.3		ug/L		101	37 - 150	5	35
2-Hexanone			25.0	27.3		ug/L		109	56 - 150	3	29
4-Methyl-2-pentanone			25.0	25.1		ug/L		100	63 - 137	3	26
Acetone			25.0	29.3		ug/L		117	49 - 150	2	24
Acrylonitrile			50.0	54.9		ug/L		110	50 - 145	1	33
Benzene			5.00	5.08		ug/L		102	80 - 120	2	22
Bromochloromethane			5.00	5.19		ug/L		104	79 - 121	0	20
Bromodichloromethane			5.00	5.06		ug/L		101	74 - 131	0	21
Bromoform			5.00	4.47		ug/L		89	48 - 127	0	23
Bromomethane			5.00	5.73		ug/L		115	51 - 148	7	35
Carbon disulfide			5.00	5.46		ug/L		109	54 - 142	7	34
Carbon tetrachloride			5.00	4.84		ug/L		97	66 - 130	4	24
Chlorobenzene			5.00	5.01		ug/L		100	74 - 123	1	21
Chloroethane			5.00	5.92		ug/L		118	54 - 140	5	33
Chloroform			5.00	5.06		ug/L		101	75 - 120	1	21
Chloromethane			5.00	6.12		ug/L		122	32 - 150	7	33
cis-1,2-Dichloroethene			5.00	5.10		ug/L		102	72 - 120	2	22
cis-1,3-Dichloropropene			5.00	4.87		ug/L		97	77 - 131	1	24
Dibromochloromethane			5.00	4.73		ug/L		95	62 - 141	2	22
Dibromomethane			5.00	5.28		ug/L		106	65 - 141	1	22
Ethylbenzene			5.00	5.24		ug/L		105	80 - 124	2	22
m,p-Xylene			5.00	5.18		ug/L		104	75 - 124	2	22
Methyl iodide			5.00	5.29		ug/L		106	60 - 128	3	39
Methylene Chloride			5.00	5.28		ug/L		106	40 - 142	2	25
o-Xylene			5.00	5.47		ug/L		109	71 - 124	2	23
Styrene			5.00	5.42		ug/L		108	74 - 127	2	22
Tetrachloroethene			5.00	4.61		ug/L		92	75 - 124	2	20

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

Lab Sample ID: LCSD 580-409393/5
Matrix: Water
Analysis Batch: 409393

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
Toluene	5.00	4.85		ug/L		97	80 - 126	1	20
trans-1,2-Dichloroethene	5.00	5.05		ug/L		101	69 - 121	4	27
trans-1,3-Dichloropropene	5.00	5.05		ug/L		101	71 - 138	1	26
trans-1,4-Dichloro-2-butene	5.00	5.08		ug/L		102	20 - 150	0	35
Trichloroethene	5.00	4.78		ug/L		96	72 - 120	0	22
Trichlorofluoromethane	5.00	4.98		ug/L		100	60 - 132	4	32
Vinyl acetate	12.5	11.5		ug/L		92	38 - 150	4	35
Vinyl chloride	5.00	5.35		ug/L		107	41 - 150	8	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-408988/22-A
Matrix: Water
Analysis Batch: 409252

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 408988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		11/04/22 19:04	11/07/22 21:04	1
Iron	ND		0.30		mg/L		11/04/22 19:04	11/07/22 21:04	1
Magnesium	ND		0.50		mg/L		11/04/22 19:04	11/07/22 21:04	1
Manganese	ND		0.020		mg/L		11/04/22 19:04	11/07/22 21:04	1
Potassium	ND		3.3		mg/L		11/04/22 19:04	11/07/22 21:04	1
Sodium	ND		0.50		mg/L		11/04/22 19:04	11/07/22 21:04	1

Lab Sample ID: LCS 580-408988/23-A
Matrix: Water
Analysis Batch: 409252

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 408988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	19.5		mg/L		97	80 - 120
Iron	20.0	21.2		mg/L		106	80 - 120
Magnesium	20.0	19.7		mg/L		98	80 - 120
Manganese	1.00	1.01		mg/L		101	80 - 120
Potassium	20.0	20.6		mg/L		103	80 - 120
Sodium	20.0	19.6		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-408988/24-A
Matrix: Water
Analysis Batch: 409252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 408988

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	20.0	21.6		mg/L		108	80 - 120	2	20
Magnesium	20.0	20.0		mg/L		100	80 - 120	2	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-408988/24-A
Matrix: Water
Analysis Batch: 409252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 408988

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	1.00	1.03		mg/L		103	80 - 120	2	20
Potassium	20.0	20.9		mg/L		105	80 - 120	2	20
Sodium	20.0	19.8		mg/L		99	80 - 120	1	20

Lab Sample ID: MB 580-409151/24-A
Matrix: Water
Analysis Batch: 409409

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		11/07/22 17:28	11/08/22 18:07	1
Iron	ND		0.30		mg/L		11/07/22 17:28	11/08/22 18:07	1
Magnesium	ND		0.50		mg/L		11/07/22 17:28	11/08/22 18:07	1
Manganese	ND		0.020		mg/L		11/07/22 17:28	11/08/22 18:07	1
Potassium	ND		3.3		mg/L		11/07/22 17:28	11/08/22 18:07	1
Sodium	ND		0.50		mg/L		11/07/22 17:28	11/08/22 18:07	1

Lab Sample ID: LCS 580-409151/25-A
Matrix: Water
Analysis Batch: 409409

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	21.4		mg/L		107	80 - 120
Iron	20.0	20.4		mg/L		102	80 - 120
Magnesium	20.0	20.6		mg/L		103	80 - 120
Manganese	1.00	1.07		mg/L		107	80 - 120
Potassium	20.0	21.2		mg/L		106	80 - 120
Sodium	20.0	20.6		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-409151/26-A
Matrix: Water
Analysis Batch: 409409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 409151

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	4	20
Iron	20.0	19.3		mg/L		96	80 - 120	6	20
Magnesium	20.0	19.4		mg/L		97	80 - 120	6	20
Manganese	1.00	1.03		mg/L		103	80 - 120	4	20
Potassium	20.0	20.7		mg/L		103	80 - 120	3	20
Sodium	20.0	19.5		mg/L		97	80 - 120	5	20

Lab Sample ID: MB 580-409302/24-A
Matrix: Water
Analysis Batch: 409550

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50		mg/L		11/08/22 18:11	11/09/22 17:00	1
Iron	ND		0.30		mg/L		11/08/22 18:11	11/09/22 17:00	1
Magnesium	ND		0.50		mg/L		11/08/22 18:11	11/09/22 17:00	1
Manganese	ND		0.020		mg/L		11/08/22 18:11	11/09/22 17:00	1
Potassium	ND		3.3		mg/L		11/08/22 18:11	11/09/22 17:00	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 580-409302/24-A
Matrix: Water
Analysis Batch: 409550

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	ND		0.50		mg/L		11/08/22 18:11	11/09/22 17:00	1

Lab Sample ID: LCS 580-409302/25-A
Matrix: Water
Analysis Batch: 409550

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	20.5		mg/L		102	80 - 120
Iron	20.0	21.5		mg/L		108	80 - 120
Magnesium	20.0	19.8		mg/L		99	80 - 120
Manganese	1.00	1.04		mg/L		104	80 - 120
Potassium	20.0	21.6		mg/L		108	80 - 120
Sodium	20.0	19.6		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-409302/26-A
Matrix: Water
Analysis Batch: 409550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 409302

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	20.0	20.3		mg/L		102	80 - 120	1	20
Iron	20.0	21.6		mg/L		108	80 - 120	0	20
Magnesium	20.0	19.7		mg/L		99	80 - 120	0	20
Manganese	1.00	1.03		mg/L		103	80 - 120	0	20
Potassium	20.0	21.5		mg/L		107	80 - 120	0	20
Sodium	20.0	19.5		mg/L		97	80 - 120	1	20

Lab Sample ID: 580-119368-7 MS
Matrix: Water
Analysis Batch: 409409

Client Sample ID: 1022-07
Prep Type: Dissolved
Prep Batch: 409151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	150		20.0	170	4	mg/L		91	80 - 120
Iron	ND		20.0	19.5		mg/L		98	80 - 120
Magnesium	57		20.0	76.7		mg/L		100	80 - 120
Manganese	ND		1.00	1.03		mg/L		103	80 - 120
Potassium	6.6		20.0	27.4		mg/L		104	80 - 120
Sodium	29		20.0	50.0		mg/L		103	80 - 120

Lab Sample ID: 580-119368-7 MSD
Matrix: Water
Analysis Batch: 409409

Client Sample ID: 1022-07
Prep Type: Dissolved
Prep Batch: 409151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	150		20.0	172	4	mg/L		102	80 - 120	1	20
Iron	ND		20.0	20.0		mg/L		100	80 - 120	2	20
Magnesium	57		20.0	78.4		mg/L		108	80 - 120	2	20
Manganese	ND		1.00	1.05		mg/L		105	80 - 120	1	20
Potassium	6.6		20.0	27.9		mg/L		106	80 - 120	2	20
Sodium	29		20.0	51.1		mg/L		108	80 - 120	2	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 580-119368-7 DU
Matrix: Water
Analysis Batch: 409409

Client Sample ID: 1022-07
Prep Type: Dissolved
Prep Batch: 409151

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	150			150		mg/L				1	20
Iron	ND			ND		mg/L				NC	20
Magnesium	57			57.1		mg/L				0.5	20
Manganese	ND			ND		mg/L				NC	20
Potassium	6.6			6.36		mg/L				4	20
Sodium	29			29.7		mg/L				0.7	20

Lab Sample ID: 580-119368-28 MS
Matrix: Water
Analysis Batch: 409550

Client Sample ID: 1022-29
Prep Type: Dissolved
Prep Batch: 409302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Calcium	71		20.0	92.8		mg/L		108	80 - 120		
Iron	ND		20.0	21.2		mg/L		106	80 - 120		
Magnesium	27		20.0	46.5		mg/L		100	80 - 120		
Manganese	0.028		1.00	1.06		mg/L		103	80 - 120		
Potassium	6.4		20.0	27.7		mg/L		106	80 - 120		
Sodium	20		20.0	40.4		mg/L		101	80 - 120		

Lab Sample ID: 580-119368-28 MSD
Matrix: Water
Analysis Batch: 409550

Client Sample ID: 1022-29
Prep Type: Dissolved
Prep Batch: 409302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	71		20.0	94.3		mg/L		116	80 - 120	2	20
Iron	ND		20.0	21.2		mg/L		106	80 - 120	0	20
Magnesium	27		20.0	46.5		mg/L		100	80 - 120	0	20
Manganese	0.028		1.00	1.09		mg/L		106	80 - 120	3	20
Potassium	6.4		20.0	27.6		mg/L		106	80 - 120	0	20
Sodium	20		20.0	40.2		mg/L		101	80 - 120	0	20

Lab Sample ID: 580-119368-28 DU
Matrix: Water
Analysis Batch: 409550

Client Sample ID: 1022-29
Prep Type: Dissolved
Prep Batch: 409302

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Calcium	71			72.7		mg/L				2	20
Iron	ND			ND		mg/L				NC	20
Magnesium	27			26.9		mg/L				1	20
Manganese	0.028			0.0293		mg/L				5	20
Potassium	6.4			6.29		mg/L				2	20
Sodium	20			20.5		mg/L				2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-408987/22-A
Matrix: Water
Analysis Batch: 409171

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 408987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 17:37	1
Arsenic	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 17:37	1
Barium	ND		0.0012		mg/L		11/04/22 19:01	11/07/22 17:37	1
Beryllium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 17:37	1
Cadmium	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 17:37	1
Chromium	ND		0.00080		mg/L		11/04/22 19:01	11/07/22 17:37	1
Cobalt	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 17:37	1
Copper	ND		0.0020		mg/L		11/04/22 19:01	11/07/22 17:37	1
Iron	ND		0.10		mg/L		11/04/22 19:01	11/07/22 17:37	1
Lead	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 17:37	1
Nickel	ND		0.0030		mg/L		11/04/22 19:01	11/07/22 17:37	1
Selenium	ND		0.0080		mg/L		11/04/22 19:01	11/07/22 17:37	1
Silver	ND		0.00040		mg/L		11/04/22 19:01	11/07/22 17:37	1
Thallium	ND		0.0010		mg/L		11/04/22 19:01	11/07/22 17:37	1
Vanadium	ND		0.0040		mg/L		11/04/22 19:01	11/07/22 17:37	1
Zinc	ND		0.0070		mg/L		11/04/22 19:01	11/07/22 17:37	1

Lab Sample ID: LCS 580-408987/23-A
Matrix: Water
Analysis Batch: 409171

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 408987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.967		mg/L		97	80 - 120
Arsenic	1.00	0.978		mg/L		98	80 - 120
Barium	1.00	0.967		mg/L		97	80 - 120
Beryllium	1.00	0.962		mg/L		96	80 - 120
Cadmium	1.00	0.959		mg/L		96	80 - 120
Chromium	1.00	0.949		mg/L		95	80 - 120
Cobalt	1.00	0.972		mg/L		97	80 - 120
Copper	1.00	0.963		mg/L		96	80 - 120
Iron	20.0	18.9		mg/L		95	80 - 120
Lead	1.00	0.971		mg/L		97	80 - 120
Nickel	1.00	0.973		mg/L		97	80 - 120
Selenium	1.00	0.980		mg/L		98	80 - 120
Silver	1.00	0.959		mg/L		96	80 - 120
Thallium	1.00	0.967		mg/L		97	80 - 120
Vanadium	1.00	0.968		mg/L		97	80 - 120
Zinc	1.00	0.960		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-408987/24-A
Matrix: Water
Analysis Batch: 409171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 408987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	0.974		mg/L		97	80 - 120	1	20
Arsenic	1.00	0.961		mg/L		96	80 - 120	2	20
Barium	1.00	0.969		mg/L		97	80 - 120	0	20
Beryllium	1.00	0.959		mg/L		96	80 - 120	0	20
Cadmium	1.00	0.963		mg/L		96	80 - 120	0	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-408987/24-A
Matrix: Water
Analysis Batch: 409171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 408987

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	1.00	0.953		mg/L		95	80 - 120	0	20
Cobalt	1.00	0.953		mg/L		95	80 - 120	2	20
Copper	1.00	0.940		mg/L		94	80 - 120	2	20
Iron	20.0	19.0		mg/L		95	80 - 120	0	20
Lead	1.00	0.963		mg/L		96	80 - 120	1	20
Nickel	1.00	0.954		mg/L		95	80 - 120	2	20
Selenium	1.00	0.948		mg/L		95	80 - 120	3	20
Silver	1.00	0.961		mg/L		96	80 - 120	0	20
Thallium	1.00	0.955		mg/L		96	80 - 120	1	20
Vanadium	1.00	0.963		mg/L		96	80 - 120	0	20
Zinc	1.00	0.938		mg/L		94	80 - 120	2	20

Lab Sample ID: MB 580-409150/24-A
Matrix: Water
Analysis Batch: 409327

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 12:02	1
Arsenic	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 12:02	1
Barium	ND		0.0012		mg/L		11/07/22 17:25	11/08/22 12:02	1
Beryllium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 12:02	1
Cadmium	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 12:02	1
Chromium	ND		0.00080		mg/L		11/07/22 17:25	11/08/22 12:02	1
Cobalt	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 12:02	1
Copper	ND		0.0020		mg/L		11/07/22 17:25	11/08/22 12:02	1
Iron	ND		0.10		mg/L		11/07/22 17:25	11/08/22 12:02	1
Lead	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 12:02	1
Nickel	ND		0.0030		mg/L		11/07/22 17:25	11/08/22 12:02	1
Selenium	ND		0.0080		mg/L		11/07/22 17:25	11/08/22 12:02	1
Silver	ND		0.00040		mg/L		11/07/22 17:25	11/08/22 12:02	1
Thallium	ND		0.0010		mg/L		11/07/22 17:25	11/08/22 12:02	1
Vanadium	ND		0.0040		mg/L		11/07/22 17:25	11/08/22 12:02	1
Zinc	ND		0.0070		mg/L		11/07/22 17:25	11/08/22 12:02	1

Lab Sample ID: LCS 580-409150/25-A
Matrix: Water
Analysis Batch: 409327

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.01		mg/L		101	80 - 120
Arsenic	1.00	0.982		mg/L		98	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	1.01		mg/L		101	80 - 120
Chromium	1.00	0.982		mg/L		98	80 - 120
Cobalt	1.00	1.00		mg/L		100	80 - 120
Copper	1.00	0.998		mg/L		100	80 - 120
Iron	20.0	19.9		mg/L		99	80 - 120
Lead	1.00	1.00		mg/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-409150/25-A
Matrix: Water
Analysis Batch: 409327

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	1.00	0.980		mg/L		98	80 - 120
Silver	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	1.00	0.985		mg/L		99	80 - 120
Zinc	1.00	0.999		mg/L		100	80 - 120

Lab Sample ID: LCSD 580-409150/26-A
Matrix: Water
Analysis Batch: 409327

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 409150

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	0.984		mg/L		98	80 - 120	2	20
Arsenic	1.00	0.984		mg/L		98	80 - 120	0	20
Barium	1.00	0.983		mg/L		98	80 - 120	2	20
Beryllium	1.00	1.02		mg/L		102	80 - 120	1	20
Cadmium	1.00	0.992		mg/L		99	80 - 120	2	20
Chromium	1.00	0.991		mg/L		99	80 - 120	1	20
Cobalt	1.00	0.994		mg/L		99	80 - 120	1	20
Copper	1.00	0.991		mg/L		99	80 - 120	1	20
Iron	20.0	19.8		mg/L		99	80 - 120	0	20
Lead	1.00	0.972		mg/L		97	80 - 120	3	20
Nickel	1.00	0.995		mg/L		100	80 - 120	2	20
Selenium	1.00	0.979		mg/L		98	80 - 120	0	20
Silver	1.00	0.997		mg/L		100	80 - 120	2	20
Thallium	1.00	0.980		mg/L		98	80 - 120	3	20
Vanadium	1.00	0.995		mg/L		99	80 - 120	1	20
Zinc	1.00	0.996		mg/L		100	80 - 120	0	20

Lab Sample ID: MB 580-409303/23-A
Matrix: Water
Analysis Batch: 409497

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:16	1
Arsenic	ND		0.0010		mg/L		11/08/22 18:15	11/09/22 12:16	1
Barium	ND		0.0012		mg/L		11/08/22 18:15	11/09/22 12:16	1
Beryllium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:16	1
Cadmium	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:16	1
Chromium	ND		0.00080		mg/L		11/08/22 18:15	11/09/22 12:16	1
Cobalt	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:16	1
Copper	ND		0.0020		mg/L		11/08/22 18:15	11/09/22 12:16	1
Iron	ND		0.10		mg/L		11/08/22 18:15	11/09/22 12:16	1
Lead	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:16	1
Nickel	ND		0.0030		mg/L		11/08/22 18:15	11/09/22 12:16	1
Selenium	ND		0.0080		mg/L		11/08/22 18:15	11/09/22 12:16	1
Silver	ND		0.00040		mg/L		11/08/22 18:15	11/09/22 12:16	1
Thallium	ND		0.0010		mg/L		11/08/22 18:15	11/09/22 12:16	1
Vanadium	ND		0.0040		mg/L		11/08/22 18:15	11/09/22 12:16	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-409303/23-A
Matrix: Water
Analysis Batch: 409497

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.0070		mg/L		11/08/22 18:15	11/09/22 12:16	1

Lab Sample ID: LCS 580-409303/24-A
Matrix: Water
Analysis Batch: 409497

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.989		mg/L		99	80 - 120
Arsenic	1.00	0.968		mg/L		97	80 - 120
Barium	1.00	0.973		mg/L		97	80 - 120
Beryllium	1.00	0.965		mg/L		96	80 - 120
Cadmium	1.00	0.968		mg/L		97	80 - 120
Chromium	1.00	0.962		mg/L		96	80 - 120
Cobalt	1.00	0.957		mg/L		96	80 - 120
Copper	1.00	0.950		mg/L		95	80 - 120
Iron	20.0	19.2		mg/L		96	80 - 120
Lead	1.00	0.956		mg/L		96	80 - 120
Nickel	1.00	0.953		mg/L		95	80 - 120
Selenium	1.00	0.980		mg/L		98	80 - 120
Silver	1.00	0.959		mg/L		96	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Vanadium	1.00	0.973		mg/L		97	80 - 120
Zinc	1.00	0.964		mg/L		96	80 - 120

Lab Sample ID: LCSD 580-409303/25-A
Matrix: Water
Analysis Batch: 409497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	0.982		mg/L		98	80 - 120	1	20
Arsenic	1.00	0.960		mg/L		96	80 - 120	1	20
Barium	1.00	0.981		mg/L		98	80 - 120	1	20
Beryllium	1.00	0.968		mg/L		97	80 - 120	0	20
Cadmium	1.00	0.960		mg/L		96	80 - 120	1	20
Chromium	1.00	0.965		mg/L		97	80 - 120	0	20
Cobalt	1.00	0.953		mg/L		95	80 - 120	0	20
Copper	1.00	0.942		mg/L		94	80 - 120	1	20
Iron	20.0	19.2		mg/L		96	80 - 120	0	20
Lead	1.00	0.957		mg/L		96	80 - 120	0	20
Nickel	1.00	0.944		mg/L		94	80 - 120	1	20
Selenium	1.00	0.956		mg/L		96	80 - 120	2	20
Silver	1.00	0.943		mg/L		94	80 - 120	2	20
Thallium	1.00	1.02		mg/L		102	80 - 120	1	20
Vanadium	1.00	0.976		mg/L		98	80 - 120	0	20
Zinc	1.00	0.952		mg/L		95	80 - 120	1	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-119368-24 MS
Matrix: Water
Analysis Batch: 409497

Client Sample ID: 1022-25
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		1.00	0.984		mg/L		98	80 - 120
Arsenic	0.0034		1.00	1.01		mg/L		100	80 - 120
Barium	0.023		1.00	1.03		mg/L		101	80 - 120
Beryllium	ND		1.00	1.02		mg/L		102	80 - 120
Cadmium	ND		1.00	0.988		mg/L		99	80 - 120
Chromium	0.0018		1.00	0.993		mg/L		99	80 - 120
Cobalt	ND		1.00	0.982		mg/L		98	80 - 120
Copper	0.021		1.00	1.01		mg/L		99	80 - 120
Iron	ND		20.0	19.7		mg/L		98	80 - 120
Lead	ND		1.00	0.974		mg/L		97	80 - 120
Nickel	ND		1.00	0.960		mg/L		96	80 - 120
Selenium	ND		1.00	0.992		mg/L		99	80 - 120
Silver	ND		1.00	0.996		mg/L		100	80 - 120
Thallium	ND		1.00	1.03		mg/L		103	80 - 120
Vanadium	ND		1.00	0.999		mg/L		100	80 - 120
Zinc	0.0075		1.00	1.00		mg/L		99	80 - 120

Lab Sample ID: 580-119368-24 MSD
Matrix: Water
Analysis Batch: 409497

Client Sample ID: 1022-25
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1.00	1.01		mg/L		101	80 - 120	2	20
Arsenic	0.0034		1.00	1.05		mg/L		105	80 - 120	5	20
Barium	0.023		1.00	1.06		mg/L		103	80 - 120	3	20
Beryllium	ND		1.00	1.04		mg/L		104	80 - 120	2	20
Cadmium	ND		1.00	1.02		mg/L		102	80 - 120	3	20
Chromium	0.0018		1.00	1.02		mg/L		102	80 - 120	3	20
Cobalt	ND		1.00	1.03		mg/L		103	80 - 120	5	20
Copper	0.021		1.00	1.07		mg/L		105	80 - 120	5	20
Iron	ND		20.0	20.3		mg/L		101	80 - 120	3	20
Lead	ND		1.00	1.00		mg/L		100	80 - 120	3	20
Nickel	ND		1.00	1.01		mg/L		101	80 - 120	5	20
Selenium	ND		1.00	1.05		mg/L		105	80 - 120	6	20
Silver	ND		1.00	1.02		mg/L		102	80 - 120	3	20
Thallium	ND		1.00	1.07		mg/L		107	80 - 120	4	20
Vanadium	ND		1.00	1.03		mg/L		103	80 - 120	3	20
Zinc	0.0075		1.00	1.03		mg/L		102	80 - 120	3	20

Lab Sample ID: 580-119368-24 DU
Matrix: Water
Analysis Batch: 409497

Client Sample ID: 1022-25
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Arsenic	0.0034		0.00333		mg/L		2	20
Barium	0.023		0.0223		mg/L		3	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 580-119368-24 DU
Matrix: Water
Analysis Batch: 409497

Client Sample ID: 1022-25
Prep Type: Total Recoverable
Prep Batch: 409303

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium	0.0018		0.00175		mg/L		3	20
Cobalt	ND		ND		mg/L		NC	20
Copper	0.021		0.0208		mg/L		0.3	20
Iron	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	0.0075		0.00706		mg/L		6	20

Lab Sample ID: MB 580-409480/14-A
Matrix: Water
Analysis Batch: 409641

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 409480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00080		mg/L		11/09/22 17:52	11/10/22 12:44	1
Arsenic	ND		0.0010		mg/L		11/09/22 17:52	11/10/22 12:44	1
Barium	ND		0.0012		mg/L		11/09/22 17:52	11/10/22 12:44	1
Beryllium	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:44	1
Cadmium	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:44	1
Chromium	ND		0.00080		mg/L		11/09/22 17:52	11/10/22 12:44	1
Cobalt	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:44	1
Copper	ND		0.0020		mg/L		11/09/22 17:52	11/10/22 12:44	1
Iron	ND		0.10		mg/L		11/09/22 17:52	11/10/22 12:44	1
Lead	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:44	1
Nickel	ND		0.0030		mg/L		11/09/22 17:52	11/10/22 12:44	1
Selenium	ND		0.0080		mg/L		11/09/22 17:52	11/10/22 12:44	1
Silver	ND		0.00040		mg/L		11/09/22 17:52	11/10/22 12:44	1
Thallium	ND		0.0010		mg/L		11/09/22 17:52	11/10/22 12:44	1
Vanadium	ND		0.0040		mg/L		11/09/22 17:52	11/10/22 12:44	1
Zinc	ND		0.0070		mg/L		11/09/22 17:52	11/10/22 12:44	1

Lab Sample ID: LCS 580-409480/15-A
Matrix: Water
Analysis Batch: 409641

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.990		mg/L		99	80 - 120
Arsenic	1.00	0.986		mg/L		99	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	1.00	0.936		mg/L		94	80 - 120
Cadmium	1.00	0.994		mg/L		99	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Cobalt	1.00	0.999		mg/L		100	80 - 120
Copper	1.00	1.01		mg/L		101	80 - 120
Iron	20.0	20.3		mg/L		101	80 - 120
Lead	1.00	0.998		mg/L		100	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 580-409480/15-A
Matrix: Water
Analysis Batch: 409641

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 409480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	1.00	1.01		mg/L		101	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Silver	1.00	0.998		mg/L		100	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Vanadium	1.00	0.998		mg/L		100	80 - 120
Zinc	1.00	0.995		mg/L		99	80 - 120

Lab Sample ID: LCSD 580-409480/16-A
Matrix: Water
Analysis Batch: 409641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 409480

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.00	0.981		mg/L		98	80 - 120	1	20
Arsenic	1.00	0.981		mg/L		98	80 - 120	1	20
Barium	1.00	0.979		mg/L		98	80 - 120	2	20
Beryllium	1.00	0.933		mg/L		93	80 - 120	0	20
Cadmium	1.00	0.972		mg/L		97	80 - 120	2	20
Chromium	1.00	1.02		mg/L		102	80 - 120	1	20
Cobalt	1.00	0.987		mg/L		99	80 - 120	1	20
Copper	1.00	1.00		mg/L		100	80 - 120	1	20
Iron	20.0	20.3		mg/L		102	80 - 120	0	20
Lead	1.00	1.00		mg/L		100	80 - 120	1	20
Nickel	1.00	0.997		mg/L		100	80 - 120	2	20
Selenium	1.00	0.956		mg/L		96	80 - 120	5	20
Silver	1.00	0.987		mg/L		99	80 - 120	1	20
Thallium	1.00	1.06		mg/L		106	80 - 120	0	20
Vanadium	1.00	1.01		mg/L		101	80 - 120	2	20
Zinc	1.00	0.985		mg/L		98	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 580-408613/3
Matrix: Water
Analysis Batch: 408613

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			10/28/22 18:24	1
Chloride	ND		1.5		mg/L			10/28/22 18:24	1
Sulfate	ND		1.5		mg/L			10/28/22 18:24	1

Lab Sample ID: LCS 580-408613/4
Matrix: Water
Analysis Batch: 408613

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	4.70		mg/L		94	90 - 110
Chloride	50.0	52.4		mg/L		105	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-408613/5
Matrix: Water
Analysis Batch: 408613

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	4.76		mg/L		95	90 - 110	1	15
Chloride			50.0	52.4		mg/L		105	90 - 110	0	15
Sulfate			50.0	49.8		mg/L		100	90 - 110	0	15

Lab Sample ID: 580-119368-24 MS
Matrix: Water
Analysis Batch: 408613

Client Sample ID: 1022-25
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		98	90 - 110		
Chloride	53		50.0	99.2		mg/L		91	90 - 110		
Sulfate	45	F1	50.0	87.0	F1	mg/L		84	90 - 110		

Lab Sample ID: 580-119368-24 MSD
Matrix: Water
Analysis Batch: 408613

Client Sample ID: 1022-25
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	5.00		mg/L		99	90 - 110	1	15
Chloride	53		50.0	99.2		mg/L		91	90 - 110	0	15
Sulfate	45	F1	50.0	87.0	F1	mg/L		84	90 - 110	0	15

Lab Sample ID: MB 580-408753/3
Matrix: Water
Analysis Batch: 408753

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			10/28/22 18:24	1

Lab Sample ID: LCS 580-408753/4
Matrix: Water
Analysis Batch: 408753

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	10.2		mg/L		102	90 - 110		

Lab Sample ID: LCSD 580-408753/5
Matrix: Water
Analysis Batch: 408753

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			10.0	10.2		mg/L		102	90 - 110	0	15

Lab Sample ID: 580-119368-24 MS
Matrix: Water
Analysis Batch: 408753

Client Sample ID: 1022-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate Nitrite as N	1.7		10.0	11.4		mg/L		97	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 580-119368-24 MSD
Matrix: Water
Analysis Batch: 408753

Client Sample ID: 1022-25
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	1.7		10.0	11.4		mg/L		97	90 - 110	0	15

Lab Sample ID: MB 580-409155/3
Matrix: Water
Analysis Batch: 409155

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			11/03/22 14:00	1
Chloride	ND		1.5		mg/L			11/03/22 14:00	1
Sulfate	ND		1.5		mg/L			11/03/22 14:00	1

Lab Sample ID: LCS 580-409155/4
Matrix: Water
Analysis Batch: 409155

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	5.15		mg/L		103	90 - 110
Chloride	50.0	52.2		mg/L		104	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 580-409155/5
Matrix: Water
Analysis Batch: 409155

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	5.17		mg/L		103	90 - 110	1	15
Chloride	50.0	52.2		mg/L		104	90 - 110	0	15
Sulfate	50.0	51.3		mg/L		103	90 - 110	0	15

Lab Sample ID: MB 580-409163/12
Matrix: Water
Analysis Batch: 409163

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			11/04/22 06:01	1
Chloride	ND		1.5		mg/L			11/04/22 06:01	1
Sulfate	ND		1.5		mg/L			11/04/22 06:01	1

Lab Sample ID: LCS 580-409163/13
Matrix: Water
Analysis Batch: 409163

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	5.43		mg/L		109	90 - 110
Chloride	50.0	52.2		mg/L		104	90 - 110
Sulfate	50.0	51.8		mg/L		104	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 580-409163/14
Matrix: Water
Analysis Batch: 409163

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	5.45		mg/L		109	90 - 110	0	15
Chloride			50.0	52.1		mg/L		104	90 - 110	0	15
Sulfate			50.0	51.8		mg/L		104	90 - 110	0	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 580-409485/1-A
Matrix: Water
Analysis Batch: 409496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 409485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/09/22 18:57	11/09/22 23:04	1

Lab Sample ID: LCS 580-409485/2-A
Matrix: Water
Analysis Batch: 409496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 409485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			2.00	2.18		mg/L		109	90 - 110		

Lab Sample ID: 580-119368-1 MS
Matrix: Water
Analysis Batch: 409496

Client Sample ID: 1022-01
Prep Type: Total/NA
Prep Batch: 409485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia	ND	F1	2.00	2.10	F1	mg/L		86	90 - 110		

Lab Sample ID: 580-119368-1 MSD
Matrix: Water
Analysis Batch: 409496

Client Sample ID: 1022-01
Prep Type: Total/NA
Prep Batch: 409485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	ND	F1	2.00	2.00	F1	mg/L		81	90 - 110	5	20

Lab Sample ID: 580-119368-1 DU
Matrix: Water
Analysis Batch: 409496

Client Sample ID: 1022-01
Prep Type: Total/NA
Prep Batch: 409485

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	ND	F1	ND		mg/L				NC	20

Lab Sample ID: MB 580-409604/1-A
Matrix: Water
Analysis Batch: 409629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 409604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.50		mg/L		11/10/22 17:06	11/10/22 20:55	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 580-409604/2-A
Matrix: Water
Analysis Batch: 409629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 409604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			2.00	1.90		mg/L		95	90 - 110		

Lab Sample ID: 580-119368-28 MS
Matrix: Water
Analysis Batch: 409629

Client Sample ID: 1022-29
Prep Type: Total/NA
Prep Batch: 409604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia	ND		2.00	1.93		mg/L		97	90 - 110		

Lab Sample ID: 580-119368-28 MSD
Matrix: Water
Analysis Batch: 409629

Client Sample ID: 1022-29
Prep Type: Total/NA
Prep Batch: 409604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	ND		2.00	1.97		mg/L		99	90 - 110	2	20

Lab Sample ID: 580-119368-28 DU
Matrix: Water
Analysis Batch: 409629

Client Sample ID: 1022-29
Prep Type: Total/NA
Prep Batch: 409604

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 410-313085/22
Matrix: Water
Analysis Batch: 313085

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		0.10		mg/L			11/02/22 07:05	1

Lab Sample ID: MB 410-313085/55
Matrix: Water
Analysis Batch: 313085

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		0.10		mg/L			11/02/22 08:11	1

Lab Sample ID: LCS 410-313085/20
Matrix: Water
Analysis Batch: 313085

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			2.50	2.42		mg/L		97	90 - 110		

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 410-313085/53
Matrix: Water
Analysis Batch: 313085

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	2.50	2.40		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-313085/21
Matrix: Water
Analysis Batch: 313085

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	2.50	2.43		mg/L		97	90 - 110	0	20

Lab Sample ID: LCSD 410-313085/54
Matrix: Water
Analysis Batch: 313085

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	2.50	2.41		mg/L		96	90 - 110	1	20

Lab Sample ID: 580-119368-1 MS
Matrix: Water
Analysis Batch: 313085

Client Sample ID: 1022-01
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		1.00	0.906		mg/L		91	90 - 110

Lab Sample ID: 580-119368-8 MS
Matrix: Water
Analysis Batch: 313085

Client Sample ID: 1022-08
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		1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 580-119368-25 MS
Matrix: Water
Analysis Batch: 313085

Client Sample ID: 1022-27
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		1.00	0.972		mg/L		97	90 - 110

Lab Sample ID: 580-119368-28 MS
Matrix: Water
Analysis Batch: 313085

Client Sample ID: 1022-29
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		1.00	0.976		mg/L		98	90 - 110

Lab Sample ID: 580-119368-1 DU
Matrix: Water
Analysis Batch: 313085

Client Sample ID: 1022-01
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	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: 580-119368-8 DU
Client Sample ID: 1022-08
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 313085

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	10

Lab Sample ID: 580-119368-25 DU
Client Sample ID: 1022-27
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 313085

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	10

Lab Sample ID: 580-119368-28 DU
Client Sample ID: 1022-29
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 313085

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND		ND		mg/L		NC	10

Lab Sample ID: MB 410-315670/25
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 315670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10		mg/L			11/09/22 07:30	1

Lab Sample ID: MB 410-315670/58
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 315670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.10		mg/L			11/09/22 08:36	1

Lab Sample ID: LCS 410-315670/56
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 315670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.50	2.37		mg/L		95	90 - 110

Lab Sample ID: LCSD 410-315670/57
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 315670

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	2.50	2.38		mg/L		95	90 - 110	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 580-408737/2
Matrix: Water
Analysis Batch: 408737

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	100		mg/L		100	85 - 115

Lab Sample ID: LCSD 580-408737/3
Matrix: Water
Analysis Batch: 408737

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
Alkalinity	100	102		mg/L		102	85 - 115	2	20

Lab Sample ID: 580-119368-14 DU
Matrix: Water
Analysis Batch: 408737

Client Sample ID: 1022-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	370		386		mg/L		3	17
Bicarbonate Alkalinity as CaCO3	370		386		mg/L		3	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20
Hydroxide Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Lab Sample ID: LCS 580-408995/2
Matrix: Water
Analysis Batch: 408995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	85 - 115

Lab Sample ID: 580-119368-4 DU
Matrix: Water
Analysis Batch: 408995

Client Sample ID: 1022-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	330		343		mg/L		4	17
Bicarbonate Alkalinity as CaCO3	330		343		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 580-408629/1
Matrix: Water
Analysis Batch: 408629

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			11/01/22 21:51	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 580-408629/2
Matrix: Water
Analysis Batch: 408629

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	1120		mg/L		112	80 - 120		

Lab Sample ID: 580-119368-10 DU
Matrix: Water
Analysis Batch: 408629

Client Sample ID: 1022-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	360			369		mg/L				4	20

Lab Sample ID: MB 580-408688/1
Matrix: Water
Analysis Batch: 408688

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			11/02/22 14:15	1

Lab Sample ID: LCS 580-408688/2
Matrix: Water
Analysis Batch: 408688

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	1140		mg/L		114	80 - 120		

Lab Sample ID: MB 580-408846/1
Matrix: Water
Analysis Batch: 408846

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			11/03/22 14:13	1

Lab Sample ID: LCS 580-408846/2
Matrix: Water
Analysis Batch: 408846

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	1190		mg/L		119	80 - 120		

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: MB 570-277846/4
Matrix: Water
Analysis Batch: 277846

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			11/01/22 12:27	1

Method: SM 5310D - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 570-277846/5
Matrix: Water
Analysis Batch: 277846

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon, Total Organic	5.03	5.12		mg/L		102	85 - 115

Lab Sample ID: LCSD 570-277846/6
Matrix: Water
Analysis Batch: 277846

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	5.03	5.08		mg/L		101	85 - 115	1	20

Lab Sample ID: 580-119368-1 MS
Matrix: Water
Analysis Batch: 277846

Client Sample ID: 1022-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon, Total Organic	1.2		5.03	5.98		mg/L		95	31 - 145

Lab Sample ID: 580-119368-1 MSD
Matrix: Water
Analysis Batch: 277846

Client Sample ID: 1022-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	1.2		5.03	6.05		mg/L		96	31 - 145	1	20

Lab Sample ID: MB 570-278481/4
Matrix: Water
Analysis Batch: 278481

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon, Total Organic	ND		0.50		mg/L			11/01/22 13:30	1

Lab Sample ID: LCS 570-278481/5
Matrix: Water
Analysis Batch: 278481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon, Total Organic	5.03	5.08		mg/L		101	85 - 115

Lab Sample ID: LCSD 570-278481/6
Matrix: Water
Analysis Batch: 278481

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	5.03	4.96		mg/L		99	85 - 115	2	20

Lab Sample ID: 580-119368-21 MS
Matrix: Water
Analysis Batch: 278481

Client Sample ID: 1022-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon, Total Organic	2.2		5.03	7.00		mg/L		96	31 - 145

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Method: SM 5310D - Organic Carbon, Total (TOC)

Lab Sample ID: 580-119368-21 MSD
Matrix: Water
Analysis Batch: 278481

Client Sample ID: 1022-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon, Total Organic	2.2		5.03	7.02		mg/L		96	31 - 145	0	20

Client Sample ID: 1022-01
Lab Sample ID: 580-119368-1

Date Collected: 10/25/22 15:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 16:27
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 02:55
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 13:25
Dissolved	Prep	3005A			408988	TMH	EET SEA	11/04/22 19:04
Dissolved	Analysis	6010D		1	409252	JLS	EET SEA	11/07/22 21:38
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:06
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 19:51
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:13
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 14:15

Client Sample ID: 1022-02
Lab Sample ID: 580-119368-2

Date Collected: 10/25/22 13:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 16:51
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 03:19
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 13:47
Dissolved	Prep	3005A			408988	TMH	EET SEA	11/04/22 19:04
Dissolved	Analysis	6010D		1	409252	JLS	EET SEA	11/07/22 21:41
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:09
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 20:03
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:23
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 14:37

Client Sample ID: 1022-03
Lab Sample ID: 580-119368-3

Date Collected: 10/25/22 14:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 17:17
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 03:44
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 14:08

Client Sample ID: 1022-03
Lab Sample ID: 580-119368-3

Date Collected: 10/25/22 14:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			408988	TMH	EET SEA	11/04/22 19:04
Dissolved	Analysis	6010D		1	409252	JLS	EET SEA	11/07/22 21:45
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:11
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/29/22 00:50
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:25
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 14:59

Client Sample ID: 1022-04
Lab Sample ID: 580-119368-4

Date Collected: 10/27/22 10:30
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 17:07
Dissolved	Prep	3005A			408988	TMH	EET SEA	11/04/22 19:04
Dissolved	Analysis	6010D		1	409252	JLS	EET SEA	11/07/22 21:48
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:13
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 21:31
Total/NA	Analysis	300.0		1	408753	JHR	EET SEA	10/28/22 21:31
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 15:21

Client Sample ID: 1022-05
Lab Sample ID: 580-119368-5

Date Collected: 10/27/22 12:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	409393	K1K	EET SEA	11/09/22 20:24
Dissolved	Prep	3005A			408988	TMH	EET SEA	11/04/22 19:04
Dissolved	Analysis	6010D		1	409252	JLS	EET SEA	11/07/22 21:51
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:16
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 21:43
Total/NA	Analysis	300.0		1	408753	JHR	EET SEA	10/28/22 21:43
Total/NA	Analysis	300.0		5	408613	JHR	EET SEA	10/28/22 21:55

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-05
Lab Sample ID: 580-119368-5
Date Collected: 10/27/22 12:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 15:43

Client Sample ID: 1022-06
Lab Sample ID: 580-119368-6
Date Collected: 10/26/22 11:00
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 13:49
Dissolved	Prep	3005A			408988	TMH	EET SEA	11/04/22 19:04
Dissolved	Analysis	6010D		1	409252	JLS	EET SEA	11/07/22 21:54
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:18
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/29/22 01:25
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:33
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 16:05

Client Sample ID: 1022-07
Lab Sample ID: 580-119368-7
Date Collected: 10/25/22 12:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 17:43
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 04:32
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 14:52
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:16
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:20
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/29/22 01:37
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:37
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 16:28

Client Sample ID: 1022-08
Lab Sample ID: 580-119368-8

Date Collected: 10/25/22 12:10
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 18:08
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 04:57
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 15:13
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:42
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:23
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/29/22 01:49
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:41
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 16:50

Client Sample ID: 1022-09
Lab Sample ID: 580-119368-9

Date Collected: 10/25/22 14:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 18:33
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 05:21
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 15:35
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:45
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:25
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/29/22 02:01
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		5	313085	CBM8	ELLE	11/02/22 08:49
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 17:12

Client Sample ID: 1022-10
Lab Sample ID: 580-119368-10

Date Collected: 10/25/22 13:25
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 18:56
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 05:46
Total/NA	Analysis	8260D	RA	5	408917	JBT	EET SEA	11/04/22 19:33

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-10
Lab Sample ID: 580-119368-10
Date Collected: 10/25/22 13:25
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:48
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:40
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/29/22 02:12
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 07:17
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 17:34

Client Sample ID: 1022-11
Lab Sample ID: 580-119368-11
Date Collected: 10/27/22 09:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 17:31
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:51
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:42
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 22:07
Total/NA	Analysis	300.0		1	408753	JHR	EET SEA	10/28/22 22:07
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408846	AUA	EET SEA	11/03/22 14:13
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 18:40

Client Sample ID: 1022-12
Lab Sample ID: 580-119368-12
Date Collected: 10/26/22 13:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 14:13
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:55
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:44
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 20:15
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-12
Lab Sample ID: 580-119368-12
Date Collected: 10/26/22 13:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:01
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 19:03

Client Sample ID: 1022-13
Lab Sample ID: 580-119368-13
Date Collected: 10/26/22 12:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 14:38
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 18:58
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:47
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 20:27
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:19
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 19:25

Client Sample ID: 1022-14
Lab Sample ID: 580-119368-14
Date Collected: 10/25/22 09:50
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 19:22
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 06:59
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 16:40
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:01
Total Recoverable	Prep	3005A			408987	TMH	EET SEA	11/04/22 19:01
Total Recoverable	Analysis	6020B		1	409171	FCW	EET SEA	11/07/22 18:49
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 17:19
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		20	313085	CBM8	ELLE	11/02/22 08:21
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 19:47

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-15
Lab Sample ID: 580-119368-15
Date Collected: 10/27/22 11:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 17:56
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:05
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:04
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 22:30
Total/NA	Analysis	300.0		1	408753	JHR	EET SEA	10/28/22 22:30
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408846	AUA	EET SEA	11/03/22 14:13
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 20:09

Client Sample ID: 1022-16
Lab Sample ID: 580-119368-16
Date Collected: 10/26/22 14:35
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 15:03
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:08
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:06
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 17:31
Total/NA	Analysis	300.0		5	409155	JHR	EET SEA	11/03/22 17:42
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:31
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 20:31

Client Sample ID: 1022-17
Lab Sample ID: 580-119368-17
Date Collected: 10/26/22 12:45
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 15:27
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:11
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:09
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 18:06

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-17
Lab Sample ID: 580-119368-17
Date Collected: 10/26/22 12:45
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:35
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 20:54

Client Sample ID: 1022-18
Lab Sample ID: 580-119368-18
Date Collected: 10/26/22 11:40
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 15:52
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:21
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:11
Total/NA	Analysis	300.0		1	409163	JHR	EET SEA	11/04/22 11:17
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		2	313085	CBM8	ELLE	11/02/22 08:39
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 21:16

Client Sample ID: 1022-19
Lab Sample ID: 580-119368-19
Date Collected: 10/26/22 10:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 16:17
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:25
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:13
Total/NA	Analysis	300.0		1	409163	JHR	EET SEA	11/04/22 11:29
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 08:47
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 21:38

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-20
Lab Sample ID: 580-119368-20
Date Collected: 10/27/22 11:35
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 18:21
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:28
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:15
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 23:17
Total/NA	Analysis	300.0		1	408753	JHR	EET SEA	10/28/22 23:17
Total/NA	Prep	Distill/Ammonia			409485	MLT	EET SEA	11/09/22 18:57
Total/NA	Analysis	350.1		1	409496	MLT	EET SEA	11/09/22 23:04
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	277846	UAPD	EET CAL 4	11/01/22 22:00

Client Sample ID: 1022-21
Lab Sample ID: 580-119368-21
Date Collected: 10/27/22 10:50
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409113	JBT	EET SEA	11/08/22 06:27
Total/NA	Analysis	8260D	RA	1	409393	K1K	EET SEA	11/09/22 18:46
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:31
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:18
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 23:28
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	353.2		10	315670	CBM8	ELLE	11/09/22 08:56
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/01/22 22:24

Client Sample ID: 1022-22
Lab Sample ID: 580-119368-22
Date Collected: 10/26/22 09:27
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 16:42
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:34
Total Recoverable	Prep	3005A			409150	JL	EET SEA	11/07/22 17:25
Total Recoverable	Analysis	6020B		1	409327	FCW	EET SEA	11/08/22 13:20
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 23:40

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-22
Lab Sample ID: 580-119368-22
Date Collected: 10/26/22 09:27
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	353.2		2	313085	CBM8	ELLE	11/02/22 07:53
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/01/22 22:57

Client Sample ID: 1022-24
Lab Sample ID: 580-119368-23
Date Collected: 10/26/22 16:15
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	353.2		10	313085	CBM8	ELLE	11/02/22 07:59

Client Sample ID: 1022-25
Lab Sample ID: 580-119368-24
Date Collected: 10/27/22 09:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 19:10
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:38
Total Recoverable	Prep	3005A			409303	JL	EET SEA	11/08/22 18:15
Total Recoverable	Analysis	6020B		1	409497	FCW	EET SEA	11/09/22 12:19
Total/NA	Analysis	300.0		1	408613	JHR	EET SEA	10/28/22 23:52
Total/NA	Analysis	300.0		1	408753	JHR	EET SEA	10/28/22 23:52
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/01/22 23:41

Client Sample ID: 1022-27
Lab Sample ID: 580-119368-25
Date Collected: 10/25/22 10:50
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 19:47
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 09:24
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 18:50
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:41
Total Recoverable	Prep	3005A			409303	JL	EET SEA	11/08/22 18:15
Total Recoverable	Analysis	6020B		1	409497	FCW	EET SEA	11/09/22 12:45

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-27
Lab Sample ID: 580-119368-25
Date Collected: 10/25/22 10:50
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 18:18
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 07:07
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/02/22 00:04

Client Sample ID: 1022-26
Lab Sample ID: 580-119368-26
Date Collected: 10/25/22 10:20
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409056	BNM	EET SEA	11/07/22 20:12
Total/NA	Analysis	8260D		1	409021	JBT	EET SEA	11/07/22 09:48
Total/NA	Analysis	8260D	RA	1	408917	JBT	EET SEA	11/04/22 19:12
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:44
Total Recoverable	Prep	3005A			409303	JL	EET SEA	11/08/22 18:15
Total Recoverable	Analysis	6020B		1	409497	FCW	EET SEA	11/09/22 12:48
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 19:05
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 07:57
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:32
Total/NA	Analysis	SM 2540C		1	408629	FCG	EET SEA	11/01/22 21:51
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/02/22 00:28

Client Sample ID: 1022-28
Lab Sample ID: 580-119368-27
Date Collected: 10/26/22 13:05
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 19:35
Dissolved	Prep	3005A			409151	JL	EET SEA	11/07/22 17:28
Dissolved	Analysis	6010D		1	409409	JLS	EET SEA	11/08/22 19:48
Total Recoverable	Prep	3005A			409480	TMH	EET SEA	11/09/22 17:52
Total Recoverable	Analysis	6020B		1	409641	FCW	EET SEA	11/10/22 12:47
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 19:16
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 07:55
Total/NA	Analysis	SM 2320B		1	408737	MLT	EET SEA	11/02/22 18:35

Lab Chronicle

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Client Sample ID: 1022-28
Lab Sample ID: 580-119368-27
Date Collected: 10/26/22 13:05
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/02/22 01:01

Client Sample ID: 1022-29
Lab Sample ID: 580-119368-28
Date Collected: 10/26/22 10:35
Matrix: Water
Date Received: 10/28/22 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	409393	K1K	EET SEA	11/09/22 19:59
Dissolved	Prep	3005A			409302	JL	EET SEA	11/08/22 18:11
Dissolved	Analysis	6010D		1	409550	JLS	EET SEA	11/09/22 17:09
Total Recoverable	Prep	3005A			409303	JL	EET SEA	11/08/22 18:15
Total Recoverable	Analysis	6020B		1	409497	FCW	EET SEA	11/09/22 12:50
Total/NA	Analysis	300.0		1	409155	JHR	EET SEA	11/03/22 19:40
Total/NA	Prep	Distill/Ammonia			409604	MLT	EET SEA	11/10/22 17:06
Total/NA	Analysis	350.1		1	409629	MLT	EET SEA	11/10/22 20:55
Total/NA	Analysis	353.2		1	313085	CBM8	ELLE	11/02/22 07:35
Total/NA	Analysis	SM 2320B		1	408995	MLT	EET SEA	11/04/22 21:00
Total/NA	Analysis	SM 2540C		1	408688	AUA	EET SEA	11/02/22 14:15
Total/NA	Analysis	SM 5310D		1	278481	GG0B	EET CAL 4	11/02/22 01:21

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Laboratory: Eurofins Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Sulfate
SM 2320B		Water	Alkalinity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity as CaCO3
SM 2540C		Water	Total Dissolved Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	07-31-23
California	SCAQMD LAP	17LA0919	12-01-22
California	State	3082	07-31-23
Nevada	State	CA00111	08-01-23
Oregon	NELAP	4175	02-02-23
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-12-22 *

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22
Alaska	State	PA00009	07-01-23
Alaska (UST)	State	17-027	02-28-23
Arizona	State	AZ0780	03-12-23
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-22
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-23
Delaware (DW)	State	N/A	01-31-23
Florida	NELAP	E87997	06-30-23
Georgia (DW)	State	C048	01-31-23
Hawaii	State	N/A	01-31-23
Illinois	NELAP	200027	01-31-23
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-22 *
Kentucky (DW)	State	KY90088	12-31-22
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	01-01-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 580-119368-1
Project/Site: Coupeville SW Facility GW Q4 2022

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	11-10-22
Michigan	State	9930	01-31-23
Minnesota	NELAP	042-999-487	12-31-22
Mississippi	State	022	01-31-23
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-23
New Hampshire	NELAP	2730	01-10-23
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-23
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	11-09-22
Rhode Island	State	LAO00338	12-30-22
South Carolina	State	89002	01-31-23
Tennessee	State	02838	01-31-23
Texas	NELAP	T104704194-22-43	08-31-23
USDA	US Federal Programs	P330-19-00197	08-09-23
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-15-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-22
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-23
Wyoming (UST)	A2LA	1.01	11-30-22

Sample Summary

Client: SCS Engineers
Project/Site: Coupeville SW Facility GW Q4 2022

Job ID: 580-119368-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-119368-1	1022-01	Water	10/25/22 15:40	10/28/22 07:50
580-119368-2	1022-02	Water	10/25/22 13:40	10/28/22 07:50
580-119368-3	1022-03	Water	10/25/22 14:40	10/28/22 07:50
580-119368-4	1022-04	Water	10/27/22 10:30	10/28/22 07:50
580-119368-5	1022-05	Water	10/27/22 12:20	10/28/22 07:50
580-119368-6	1022-06	Water	10/26/22 11:00	10/28/22 07:50
580-119368-7	1022-07	Water	10/25/22 12:20	10/28/22 07:50
580-119368-8	1022-08	Water	10/25/22 12:10	10/28/22 07:50
580-119368-9	1022-09	Water	10/25/22 14:40	10/28/22 07:50
580-119368-10	1022-10	Water	10/25/22 13:25	10/28/22 07:50
580-119368-11	1022-11	Water	10/27/22 09:20	10/28/22 07:50
580-119368-12	1022-12	Water	10/26/22 13:20	10/28/22 07:50
580-119368-13	1022-13	Water	10/26/22 12:40	10/28/22 07:50
580-119368-14	1022-14	Water	10/25/22 09:50	10/28/22 07:50
580-119368-15	1022-15	Water	10/27/22 11:40	10/28/22 07:50
580-119368-16	1022-16	Water	10/26/22 14:35	10/28/22 07:50
580-119368-17	1022-17	Water	10/26/22 12:45	10/28/22 07:50
580-119368-18	1022-18	Water	10/26/22 11:40	10/28/22 07:50
580-119368-19	1022-19	Water	10/26/22 10:20	10/28/22 07:50
580-119368-20	1022-20	Water	10/27/22 11:35	10/28/22 07:50
580-119368-21	1022-21	Water	10/27/22 10:50	10/28/22 07:50
580-119368-22	1022-22	Water	10/26/22 09:27	10/28/22 07:50
580-119368-23	1022-24	Water	10/26/22 16:15	10/28/22 07:50
580-119368-24	1022-25	Water	10/27/22 09:20	10/28/22 07:50
580-119368-25	1022-27	Water	10/25/22 10:50	10/28/22 07:50
580-119368-26	1022-26	Water	10/25/22 10:20	10/28/22 07:50
580-119368-27	1022-28	Water	10/26/22 13:05	10/28/22 07:50
580-119368-28	1022-29	Water	10/26/22 10:35	10/28/22 07:50

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins | Environment Testing America

Client Information

Client Contact:	Ruben Martinez
Company:	SCS Engineers
Address:	2405 140th Ave NE #107
City:	Bellevue
State, Zip:	WA, 98005-1877
Phone:	425.289.5455
Email:	rmartinez@scsengineers.com
Project Name:	Coupeville 4022
Site:	Washington

Sampler:	RM + JE
Phone:	206.406.3241
PWSID:	
Due Date Requested:	
TAT Requested (days):	
Compliance Project:	Δ Yes Δ No
PO #:	Purchase Order not required
WO #:	
Project #:	~~04222010.04~~
SSOW#:	

Lab PM:	
E-Mail:	
Carrier Tracking No(s):	
State of Origin:	
COC No:	
Page:	Page 1 of 1
Job #:	04222010.04

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)	Preservation Code:	Total Number of Containers	350.1 SS 2200	2320B, 300.0, 7820, 350.1 NH3	6020A_LL - Total Metals	6020A_LL - Field Filtered Metals	901DC Field Filtered Mg Mn Na	TOC SM5310C	8260C Solids	8260C LL Volatiles	TDS	Field Filtered & Unfiltered	Special Instructions/Note:
1022-01		1540	G	W		Y	X	X	X	X	X	Y		X	X		
1022-02		1340															
1022-03		1440															
1022-04		1030															
1022-05		1220															
1022-06	10-26-22	1100															
1022-07	10-25-22	1220															
1022-08	10-25-22	1210															
1022-09	10-25-22	1440															
1022-10	10-25-22	1325															
1022-11	10-27-22	0920															

580-119368 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:	RMB	Date/Time: 10-28-22	Company SCS	Received by:	Date/Time: 10/28/22 7:50 Company EEIN
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:

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 1
Company:	PWSID:			Job #:

Address:	Due Date Requested:
City:	TAT Requested (days):
State, Zip:	Compliance Project: Δ Yes Δ No
Phone:	PO #: Purchase Order not required
Email:	WO #:
Project Name:	Project #:
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)	350.1, 5220D	2320B, 300.0-28D, 300.0-48HR	6020A - LL - Total Metals	6010C FF metals	Ca, Co, Fe, Mg, Mn, V, Na	TOC	Volatiles	TDS	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
1022-12	10-26-22	1320	G	W	Y	Y	X	X	X	X	X	X	X	X		
1022-13	10-26-22	1240														
1022-14	10-25-22	0950														
1022-15	10-27-22	1140														
1022-16	10-26-22	1435														
1022-17	10-26-22	1245														
1022-18	10-26-22	1140														
1022-19	10-26-22	1020														
1022-20	10-27-22	1135														
1022-21	~~10-26-22~~ 10-27-22	1050														
1022-22	10-26-22	0912														

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:

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: RMB	Date/Time: 10-28-22 0800	Company: SCS	Received by:	Date/Time: 10/28/22 7:50	Company: ETN
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:

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-47923-8550.1
Client Contact:	Phone:	E-Mail: betsy.sara@eurofinset.com		Page:
Company: SCS Engineers				Job #:
Address: 2405 140th Avenue NE Suite 107	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Bellevue	TAT Requested (days):			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 - Na2S2SO3 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)
State, Zip: WA, 98005-1877				
Phone:	PO #: Purchase Order not required			Other:
Email:	WO #:			
Project Name: 304th Landfill	Project #: 28003446 - LDCS			
Site: Eurofins	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)	TDS	Dissolved Metals	Ammonia/TOC	8260B	CHCs/VFAs Perchlorate	350.1, 5225, Total alkalis, 2320B, 300.0	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N			
~~1022-23~~	~~10-26-22~~	~~1615~~	G	W	Y	Y	X	X	X	X	X	X	X	Short Hold: NO3(IC)
1022-24	10-26-22	1615												
1022-25	10-25-22	0920												
1022-27	10-25-22	1050												
~~Trip Blank~~														
1022-26	10-25-22	1020												

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
RMB	10-28-22	SCS		10/28/22 7:50	EETN
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:

Therm. ID: A3 Cor: 3.6 ° Unc: 3.5 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

Therm. ID: A3 Cor: 5.4 ° Unc: 5.3 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

Therm. ID: A3 Cor: 4.9 ° Unc: 4.8 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

Therm. ID: IR10 Cor: 5.8 ° Unc: 6.0 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

Therm. ID: A3 Cor: 3.7 ° Unc: 3.6 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

Therm. ID: A3 Cor: 4.9 ° Unc: 4.8 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

Therm. ID: IR10 Cor: 5.8 ° Unc: 6.0 °
Cooler Dsc: Lg Blu
Packing: Bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: X
Other: ___

ORIGIN ID:TCMA (253) 922-2310
SAMPLE RECEIVING
EUROFINS FRONTIER GLOBAL- SEATTLE
5755 8TH ST E

FIFE, WA 98424
UNITED STATES US

ACTWGT:
CAD: 989746/CAFE

BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING SOUTHW
2841 DOW AVENUE, SUITE 100

TUSTIN CA 92780
(714) 895-5494
PO YES

REF S580-51271

FedEx Express

TUE - 01 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 0201 6087 6057 8070

92 DTHA

92780
CA-US SNA

Part # 159471-434 MTW EXP 08/23

eurofins | Environment Testing TestAmerica

2072633

Custody Seal

SIGNATURE

DATE

580-119368 Waybill

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-111208.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 3
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 580-119368-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 11/10/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q4 2022	Project #: 58017834			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab 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)	353.2_Pres	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
1022-01 (580-119368-1)	10/25/22	15:40 Pacific		Water			X	1	
1022-02 (580-119368-2)	10/25/22	13:40 Pacific		Water			X	1	
1022-03 (580-119368-3)	10/25/22	14:40 Pacific		Water			X	1	
1022-06 (580-119368-6)	10/26/22	11:00 Pacific		Water			X	1	
1022-07 (580-119368-7)	10/25/22	12:20 Pacific		Water			X	1	
1022-08 (580-119368-8)	10/25/22	12:10 Pacific		Water			X	1	
1022-09 (580-119368-9)	10/25/22	14:40 Pacific		Water			X	1	
1022-10 (580-119368-10)	10/25/22	13:25 Pacific		Water			X	1	
1022-12 (580-119368-12)	10/26/22	13:20 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/1/22 10:07	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-111208.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 2 of 3
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 580-119368-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 11/10/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q4 2022	Project #: 58017834			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab 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)	353.2_Pres	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
1022-13 (580-119368-13)	10/26/22	12:40 Pacific		Water			X	1	
1022-14 (580-119368-14)	10/25/22	09:50 Pacific		Water			X	1	
1022-16 (580-119368-16)	10/26/22	14:35 Pacific		Water			X	1	
1022-17 (580-119368-17)	10/26/22	12:45 Pacific		Water			X	1	
1022-18 (580-119368-18)	10/26/22	11:40 Pacific		Water			X	1	
1022-19 (580-119368-19)	10/26/22	10:20 Pacific		Water			X	1	
1022-22 (580-119368-22)	10/26/22	09:27 Pacific		Water			X	1	
1022-24 (580-119368-23)	10/26/22	16:15 Pacific		Water			X	1	
1022-27 (580-119368-25)	10/25/22	10:50 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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: 10/31/22	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/1/22 10:07	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4

JM

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-111208.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 3 of 3
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 580-119368-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 11/10/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q4 2022	Project #: 58017834			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab 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)	353.2_Pres	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
1022-26 (580-119368-26)	10/25/22	10:20 Pacific		Water			X	1	
1022-28 (580-119368-27)	10/26/22	13:05 Pacific		Water			X	1	
1022-29 (580-119368-28)	10/26/22	10:35 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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
	10/31/22	ECET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/1/22 10:07	Company ECET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-111279.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Washington		Job #: 580-119368-1
Address: 2425 New Holland Pike,	Due Date Requested: 11/10/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q4 2022	Project #: 58017834			
Site:	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
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab 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)	353.2_Pres	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
1022-21 (580-119368-21)	10/27/22	10:50 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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		11/02/22 1259	EETN			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-3-22 1025	Company EUL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4

Ver: 06/08/2021

Eurofins Seattle
5755 8th Street East
Tacoma WA 98424
Phone 253-922-2310

Chain of Custody Record

eurofins | Environment Testing

11/14/2022

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Grant, Katie	Carrier Tracking No(s):	COC No: 580-111207 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Katie.Grant@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 3
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): State - Washington		Job #: 580-119368-1
Address: 2841 Dow Avenue Suite 100	Due Date Requested: 11/10/2022			
City: Tustin	TAT Requested (days):			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Coupeville SW Facility GW Q4 2022	Project #: 58017834			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab 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)	SM5310D/ Total Organic Carbon	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
1022-01 (580-119368-1)	10/25/22	15 40 Pacific		Water			X	1	
1022-02 (580-119368-2)	10/25/22	13.40 Pacific		Water			X	1	
1022-03 (580-119368-3)	10/25/22	14.40 Pacific		Water			X	1	
1022-04 (580-119368-4)	10/27/22	10 30 Pacific		Water			X	1	
1022-05 (580-119368-5)	10/27/22	12:20 Pacific		Water			X	1	
1022-06 (580-119368-6)	10/26/22	11 00 Pacific		Water			X	1	
1022-07 (580-119368-7)	10/25/22	12.20 Pacific		Water			X	1	
1022-08 (580-119368-8)	10/25/22	12.10 Pacific		Water			X	1	
1022-09 (580-119368-9)	10/25/22	14.40 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC 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 Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Northwest, LLC.

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		10/31/22	ET		11/01/22 0935	ER
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.
		1.7/1.5 SW

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-119368-1

Login Number: 119368
List Number: 1
Creator: Holdener, Heather D

List Source: Eurofins 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").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-119368-1

Login Number: 119368
List Number: 3
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 11/01/22 11:22 AM

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	2072633
Sample custody seals, if present, are intact.	N/A	
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	1.5
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?	False	Received project as a subcontract.
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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-119368-1

Login Number: 119368
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/01/22 11:32 AM

Question	Answer	Comment
The cooler's custody seal is 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 580-119368-1

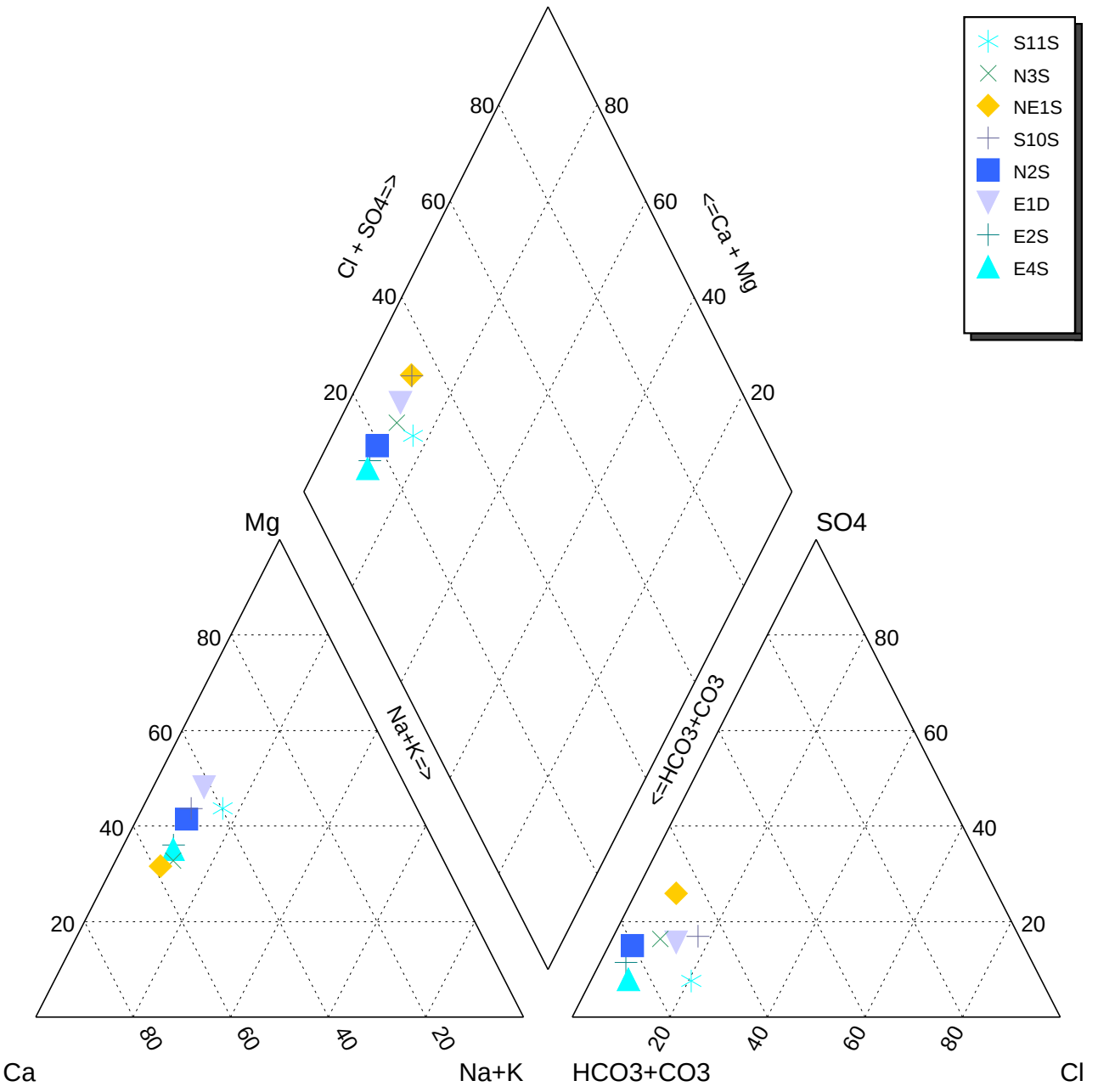
Login Number: 119368
List Number: 4
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 11/03/22 10:52 AM

Question	Answer	Comment
The cooler's custody seal is 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

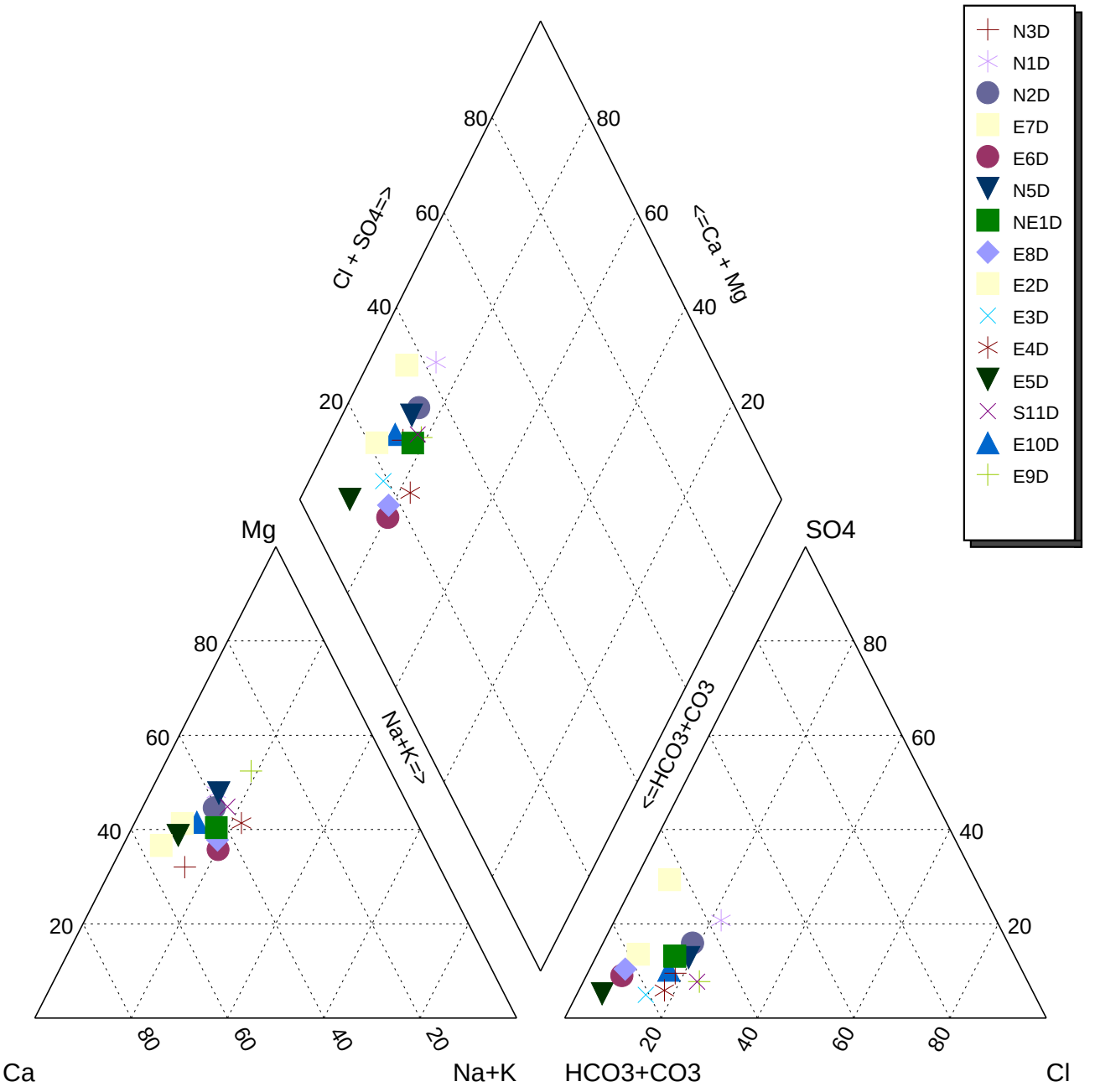
Appendix C

2022 Groundwater Geochemical Evaluation



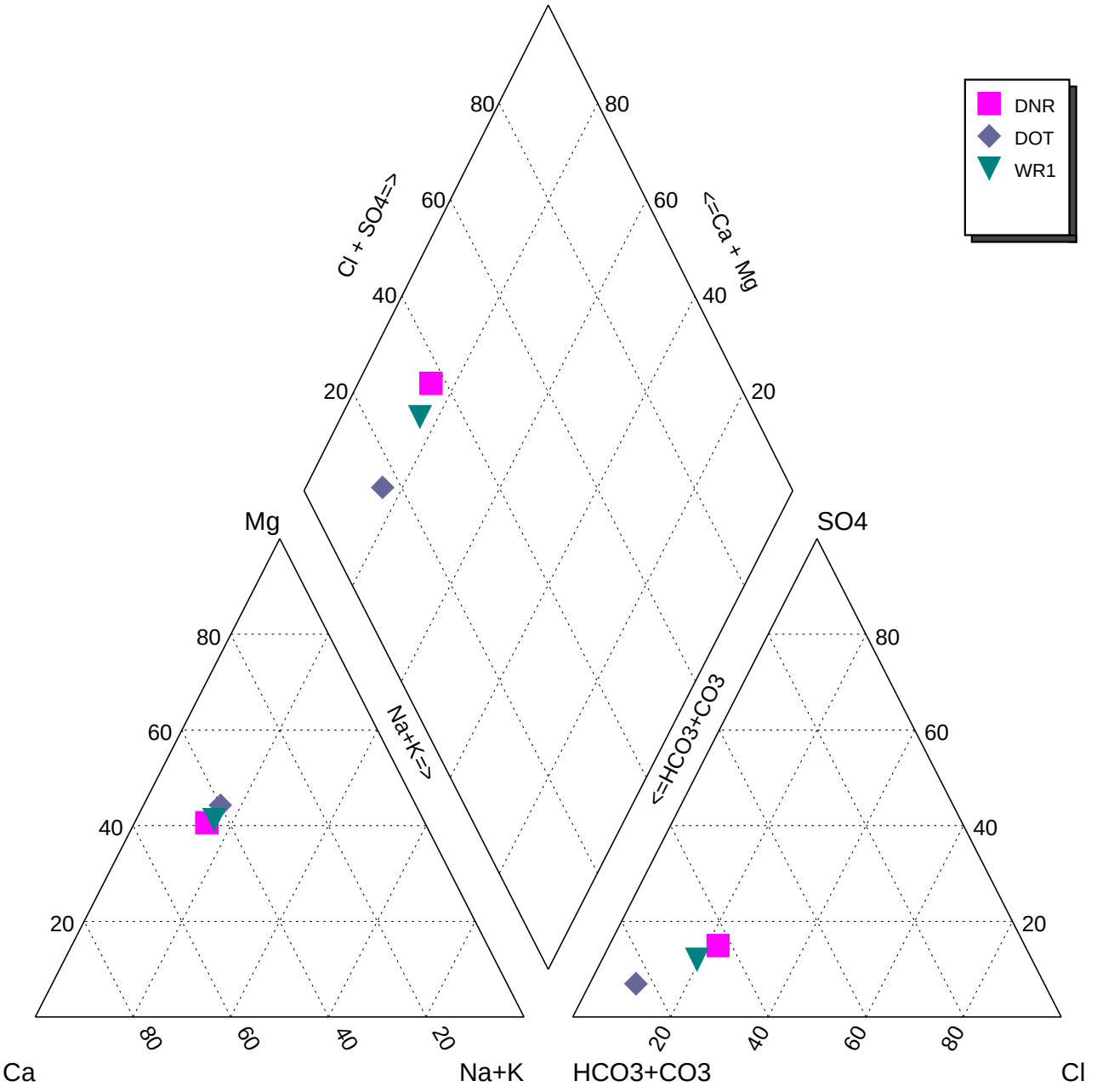
DESCRIPTION: 2Q22 Piper Plot - Aquifer 1

	PROJECT: Coupeville Solid Waste Facility	PROJECT NO: 04222010.05
	CLIENT: Island County Public Works	DATE: January 2023



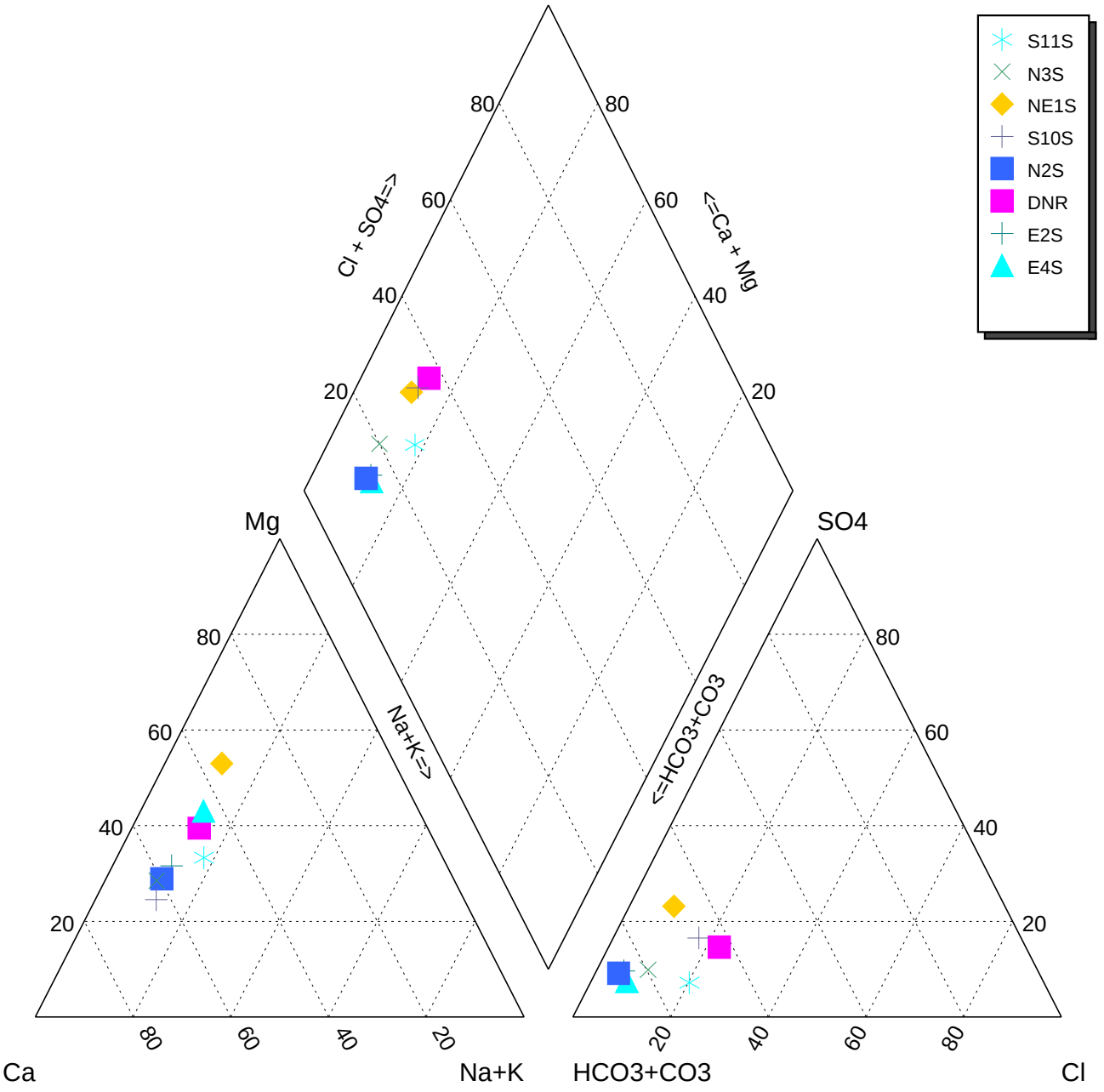
DESCRIPTION: 2Q22 Piper Plot - Aquifer 2

	PROJECT: Coupeville Solid Waste Facility	PROJECT NO: 04222010.05
	CLIENT: Island County Public Works	DATE: January 2023



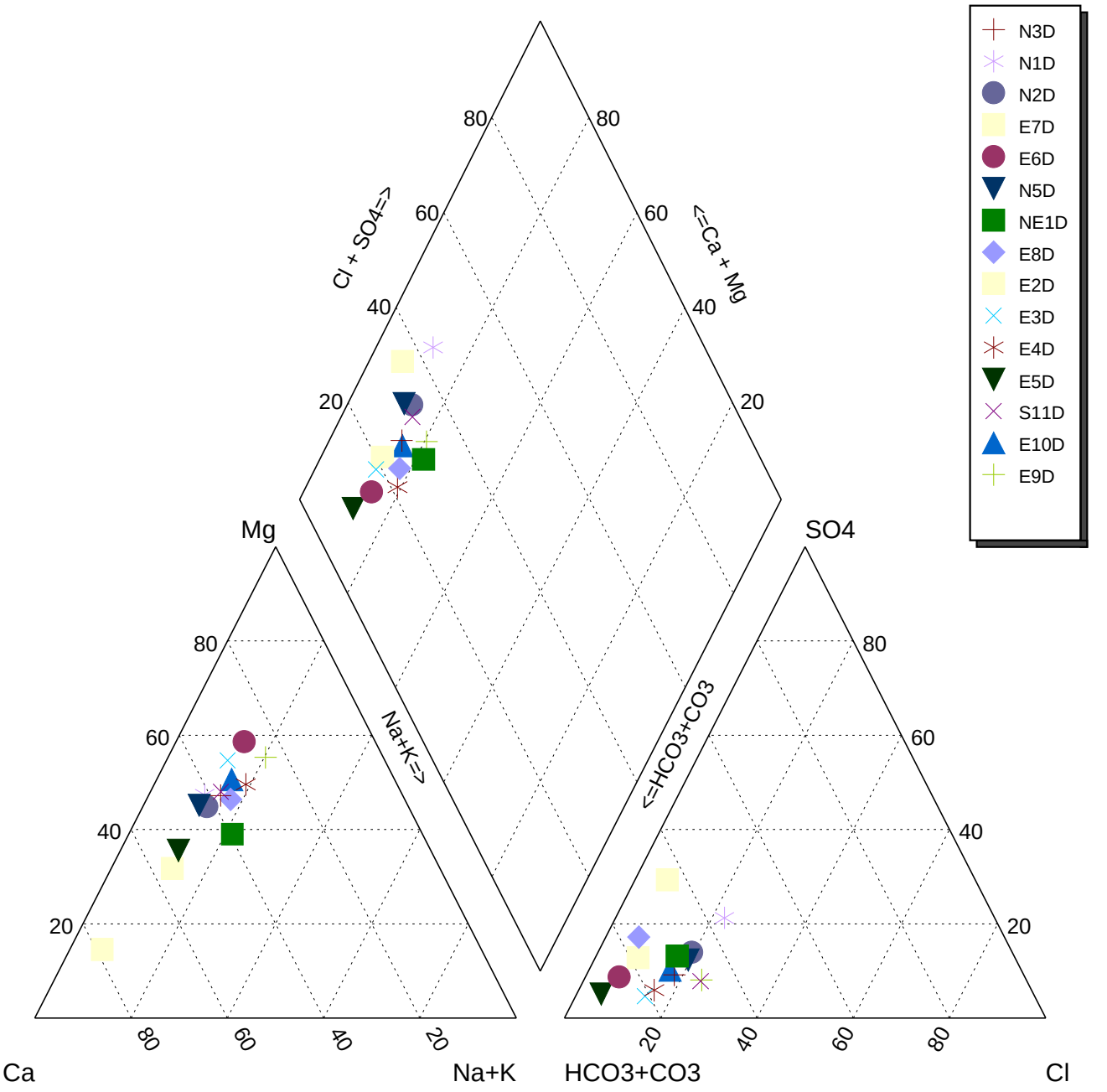
DESCRIPTION: 2Q22 Piper Plot - Water Supply Wells

	PROJECT: Coupeville Solid Waste Facility	PROJECT NO: 04222010.05
	CLIENT: Island County Public Works	DATE: January 2023



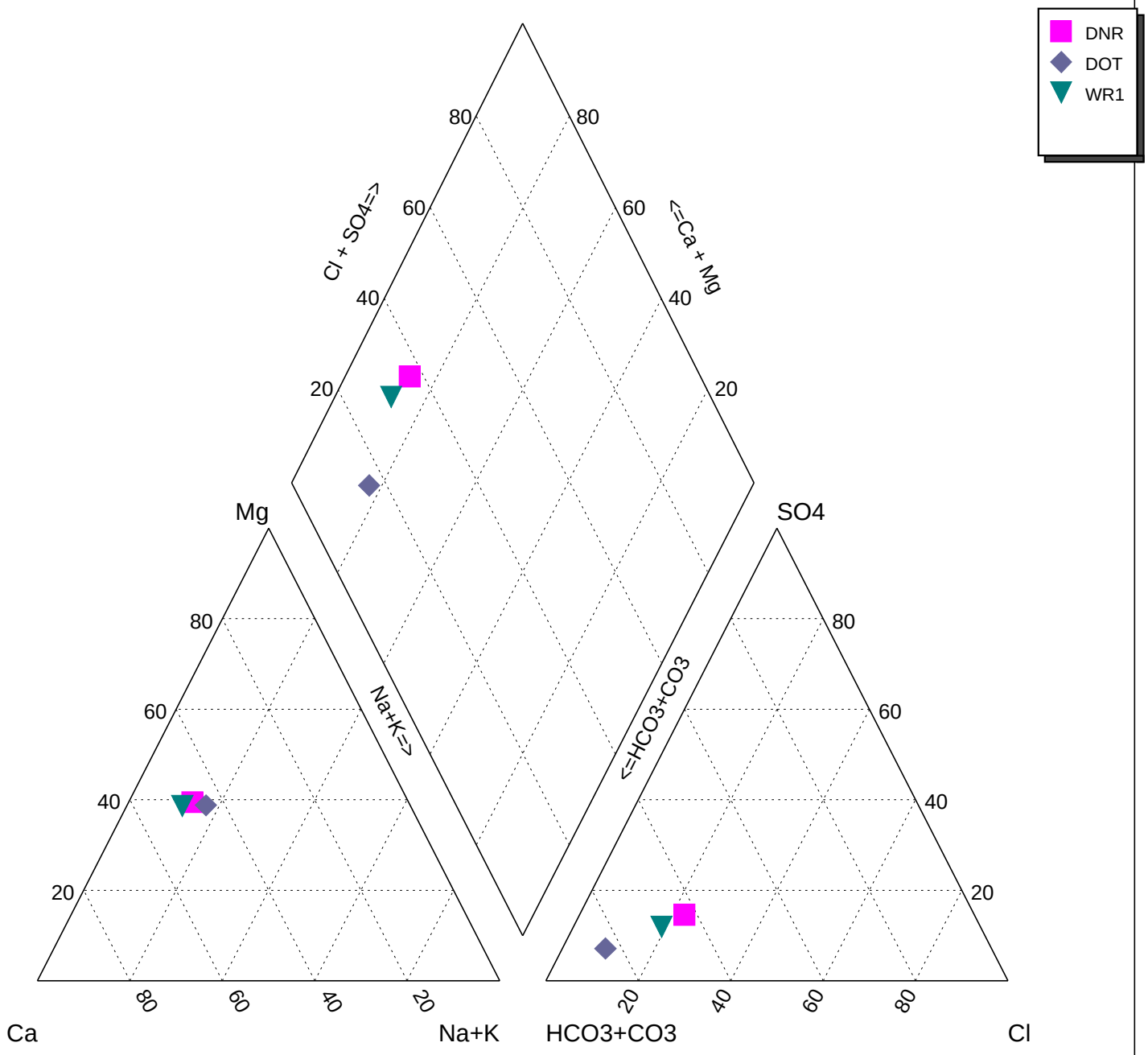
DESCRIPTION: 4Q22 Piper Plot - Aquifer 1

	PROJECT: Coupeville Solid Waste Facility	PROJECT NO: 04222010.05
	CLIENT: Island County Public Works	DATE: January 2023



DESCRIPTION: 4Q22 Piper Plot - Aquifer 2

	PROJECT: Coupeville Solid Waste Facility	PROJECT NO: 04222010.05
	CLIENT: Island County Public Works	DATE: January 2023



DESCRIPTION: 4Q22 Piper Plot - Water Supply Wells

	PROJECT: Coupeville Solid Waste Facility	PROJECT NO: 04222010.05
	CLIENT: Island County Public Works	DATE: January 2023

Cation/Anion Balance

Location	DNR
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.00	0.128	
Ca	0.04990	76.00	3.79	
Mg	0.08229	42.00	3.46	
		Sum of Cations	8.5	meq/L
Cl	0.02821	64.00	1.81	
SO4	0.02082	58.00	1.21	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	372.00	6.10	
		Sum of Anions	9.11	meq/L
Balance (% difference) *			-3.42	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.00	0.153	
Ca	0.04990	61.00	3.04	
Mg	0.08229	41.00	3.37	
		Sum of Cations	7.62	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	23.00	0.48	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	420.00	6.88	
		Sum of Anions	8.01	meq/L
Balance (% difference) *			-2.53	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E10D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.00	0.179	
Ca	0.04990	96.00	4.79	
Mg	0.08229	53.00	4.36	
		Sum of Cations	10.5	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	46.00	0.96	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	504.00	8.26	
		Sum of Anions	10.77	meq/L
Balance (% difference) *			-1.24	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E1D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581			
Mn	0.0364			
K	0.02258	8.80	0.225	
Ca	0.04990	170.00	8.48	
Mg	0.08229	120.00	9.87	
		Sum of Cations	20.5	meq/L
Cl	0.02821	76.00	2.14	
SO4	0.02082	120.00	2.50	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	828.00	13.57	
		Sum of Anions	18.2	meq/L
Balance (% difference) *			5.90	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.50	0.192	
Ca	0.04990	150.00	7.49	
Mg	0.08229	77.00	6.34	
		Sum of Cations	15.36	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	82.00	1.71	
NO3	0.01613	11.00	0.18	
HCO3	0.01639	720.00	11.80	
		Sum of Anions	14.76	meq/L
Balance (% difference) *			2.01	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.90	0.176	
Ca	0.04990	160.00	7.98	
Mg	0.08229	65.00	5.35	
		Sum of Cations	14.86	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	65.00	1.35	
NO3	0.01613	5.50	0.09	
HCO3	0.01639	720.00	11.80	
		Sum of Anions	13.86	meq/L
Balance (% difference) *			3.46	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.90	0.151	
Ca	0.04990	64.00	3.19	
Mg	0.08229	41.00	3.37	
		Sum of Cations	7.76	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	16.00	0.33	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.78	meq/L
Balance (% difference) *			-0.13	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581			
Mn	0.0364			
K	0.02258	11.00	0.281	
Ca	0.04990	45.00	2.25	
Mg	0.08229	31.00	2.55	
		Sum of Cations	6.17	meq/L
Cl	0.02821	31.00	0.87	
SO4	0.02082	14.00	0.29	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	276.00	4.52	
		Sum of Anions	5.69	meq/L
Balance (% difference) *			4.01	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.30	0.161	
Ca	0.04990	150.00	7.49	
Mg	0.08229	59.00	4.85	
		Sum of Cations	13.8	meq/L
Cl	0.02821	30.00	0.85	
SO4	0.02082	43.00	0.90	
NO3	0.01613	4.60	0.07	
HCO3	0.01639	696.00	11.41	
		Sum of Anions	13.22	meq/L
Balance (% difference) *			2.16	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E5D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.70	0.197	
Ca	0.04990	160.00	7.98	
Mg	0.08229	74.00	6.09	
		Sum of Cations	15.7	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	31.00	0.65	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	816.00	13.37	
		Sum of Anions	14.67	meq/L
Balance (% difference) *			3.42	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E6D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.50	0.141	
Ca	0.04990	65.00	3.24	
Mg	0.08229	32.00	2.63	
		Sum of Cations	7.37	meq/L
Cl	0.02821	17.00	0.48	
SO4	0.02082	28.00	0.58	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.55	meq/L
Balance (% difference) *			-1.25	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E7D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581			
Mn	0.0364			
K	0.02258	8.90	0.228	
Ca	0.04990	250.00	12.48	
Mg	0.08229	100.00	8.23	
		Sum of Cations	22.5	meq/L
Cl	0.02821	50.00	1.41	
SO4	0.02082	280.00	5.83	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	924.00	15.14	
		Sum of Anions	22.4	meq/L
Balance (% difference) *			0.25	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E8D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	22.00	0.96	
Fe	0.03581			
Mn	0.0364			
K	0.02258	4.70	0.120	
Ca	0.04990	49.00	2.45	
Mg	0.08229	26.00	2.14	
		Sum of Cations	5.66	meq/L
Cl	0.02821	13.00	0.37	
SO4	0.02082	25.00	0.52	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	5.8	meq/L
Balance (% difference) *			-1.24	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E9D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	14.00	0.61	
Fe	0.03581			
Mn	0.0364			
K	0.02258	14.00	0.358	
Ca	0.04990	30.00	1.50	
Mg	0.08229	33.00	2.72	
		Sum of Cations	5.18	meq/L
Cl	0.02821	41.00	1.16	
SO4	0.02082	18.00	0.38	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	240.00	3.93	
		Sum of Anions	5.46	meq/L
Balance (% difference) *			-2.68	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	44.00	1.91	
Fe	0.03581			
Mn	0.0364			
K	0.02258	9.00	0.230	
Ca	0.04990	120.00	5.99	
Mg	0.08229	91.00	7.49	
		Sum of Cations	15.62	meq/L
Cl	0.02821	110.00	3.10	
SO4	0.02082	140.00	2.92	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	588.00	9.64	
		Sum of Anions	15.66	meq/L
Balance (% difference) *			-0.11	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	38.00	1.65	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.80	0.199	
Ca	0.04990	100.00	4.99	
Mg	0.08229	67.00	5.51	
		Sum of Cations	12.36	meq/L
Cl	0.02821	71.00	2.00	
SO4	0.02082	82.00	1.71	
NO3	0.01613	3.60	0.06	
HCO3	0.01639	516.00	8.46	
		Sum of Anions	12.23	meq/L
Balance (% difference) *			0.53	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581			
Mn	0.0364			
K	0.02258	9.30	0.238	
Ca	0.04990	150.00	7.49	
Mg	0.08229	78.00	6.42	
		Sum of Cations	15.5	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	91.00	1.90	
NO3	0.01613	6.50	0.10	
HCO3	0.01639	744.00	12.19	
		Sum of Anions	14.8	meq/L
Balance (% difference) *			2.23	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	19.00	0.83	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.60	0.143	
Ca	0.04990	68.00	3.39	
Mg	0.08229	25.00	2.06	
		Sum of Cations	6.42	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	27.00	0.56	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	312.00	5.11	
		Sum of Anions	6.75	meq/L
Balance (% difference) *			-2.49	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	26.00	1.13	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.60	0.143	
Ca	0.04990	120.00	5.99	
Mg	0.08229	43.00	3.54	
		Sum of Cations	10.8	meq/L
Cl	0.02821	31.00	0.87	
SO4	0.02082	70.00	1.46	
NO3	0.01613	7.60	0.12	
HCO3	0.01639	480.00	7.87	
		Sum of Anions	10.32	meq/L
Balance (% difference) *			2.27	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	42.00	1.83	
Fe	0.03581			
Mn	0.0364			
K	0.02258	9.30	0.238	
Ca	0.04990	110.00	5.49	
Mg	0.08229	84.00	6.91	
		Sum of Cations	14.47	meq/L
Cl	0.02821	91.00	2.57	
SO4	0.02082	82.00	1.71	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	660.00	10.82	
		Sum of Anions	15.1	meq/L
Balance (% difference) *			-2.12	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	23.00	1.00	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.50	0.141	
Ca	0.04990	55.00	2.74	
Mg	0.08229	32.00	2.63	
		Sum of Cations	6.52	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	38.00	0.79	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	312.00	5.11	
		Sum of Anions	6.89	meq/L
Balance (% difference) *			-2.78	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	4/20/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	18.00	0.78	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.30	0.136	
Ca	0.04990	110.00	5.49	
Mg	0.08229	36.00	2.96	
		Sum of Cations	9.37	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	93.00	1.94	
NO3	0.01613	8.30	0.13	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	8.6	meq/L
Balance (% difference) *			4.33	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.60	0.143	
Ca	0.04990	110.00	5.49	
Mg	0.08229	63.00	5.18	
		Sum of Cations	11.86	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	73.00	1.52	
NO3	0.01613	22.00	0.35	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	10.5	meq/L
Balance (% difference) *			6.05	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.80	0.174	
Ca	0.04990	69.00	3.44	
Mg	0.08229	50.00	4.11	
		Sum of Cations	9.17	meq/L
Cl	0.02821	72.00	2.03	
SO4	0.02082	32.00	0.67	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.78	meq/L
Balance (% difference) *			-3.22	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.10	0.156	
Ca	0.04990	75.00	3.74	
Mg	0.08229	50.00	4.11	
		Sum of Cations	9.4	meq/L
Cl	0.02821	60.00	1.69	
SO4	0.02082	30.00	0.63	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	432.00	7.08	
		Sum of Anions	9.4	meq/L
Balance (% difference) *			0.04	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	4/21/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.30	0.136	
Ca	0.04990	82.00	4.09	
Mg	0.08229	48.00	3.95	
		Sum of Cations	9.57	meq/L
Cl	0.02821	56.00	1.58	
SO4	0.02082	47.00	0.98	
NO3	0.01613	1.50	0.02	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.27	meq/L
Balance (% difference) *			1.59	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DNR
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	30.00	1.30	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.70	0.146	
Ca	0.04990	82.00	4.09	
Mg	0.08229	46.00	3.79	
		Sum of Cations	9.33	meq/L
Cl	0.02821	63.00	1.78	
SO4	0.02082	55.00	1.15	
NO3	0.01613	0.44	0.01	
HCO3	0.01639	360.00	5.90	
		Sum of Anions	8.83	meq/L
Balance (% difference) *			2.74	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	DOT
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.50	0.166	
Ca	0.04990	62.00	3.09	
Mg	0.08229	42.00	3.46	
		Sum of Cations	7.76	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	23.00	0.48	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	7.79	meq/L
Balance (% difference) *			-0.17	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E10D
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.60	0.194	
Ca	0.04990	98.00	4.89	
Mg	0.08229	56.00	4.61	
		Sum of Cations	10.95	meq/L
Cl	0.02821	55.00	1.55	
SO4	0.02082	45.00	0.94	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	492.00	8.06	
		Sum of Anions	10.55	meq/L
Balance (% difference) *			1.87	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2D
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581			
Mn	0.0364			
K	0.02258	8.00	0.205	
Ca	0.04990	150.00	7.49	
Mg	0.08229	77.00	6.34	
		Sum of Cations	15.37	meq/L
Cl	0.02821	39.00	1.10	
SO4	0.02082	76.00	1.58	
NO3	0.01613	11.00	0.18	
HCO3	0.01639	708.00	11.60	
		Sum of Anions	14.46	meq/L
Balance (% difference) *			3.05	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E2S
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.60	0.194	
Ca	0.04990	150.00	7.49	
Mg	0.08229	65.00	5.35	
		Sum of Cations	14.42	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	54.00	1.13	
NO3	0.01613	6.80	0.11	
HCO3	0.01639	720.00	11.80	
		Sum of Anions	13.68	meq/L
Balance (% difference) *			2.62	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E3D
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.40	0.164	
Ca	0.04990	64.00	3.19	
Mg	0.08229	39.00	3.21	
		Sum of Cations	7.61	meq/L
Cl	0.02821	34.00	0.96	
SO4	0.02082	15.00	0.31	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.76	meq/L
Balance (% difference) *			-0.98	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4D
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581			
Mn	0.0364			
K	0.02258	11.00	0.281	
Ca	0.04990	48.00	2.40	
Mg	0.08229	31.00	2.55	
		Sum of Cations	6.32	meq/L
Cl	0.02821	29.00	0.82	
SO4	0.02082	15.00	0.31	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.05	meq/L
Balance (% difference) *			2.17	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E4S
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	29.00	1.26	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.60	0.169	
Ca	0.04990	150.00	7.49	
Mg	0.08229	57.00	4.69	
		Sum of Cations	13.6	meq/L
Cl	0.02821	29.00	0.82	
SO4	0.02082	40.00	0.83	
NO3	0.01613	3.70	0.06	
HCO3	0.01639	696.00	11.41	
		Sum of Anions	13.12	meq/L
Balance (% difference) *			1.83	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E5D
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581			
Mn	0.0364			
K	0.02258	8.00	0.205	
Ca	0.04990	170.00	8.48	
Mg	0.08229	76.00	6.25	
		Sum of Cations	16.33	meq/L
Cl	0.02821	23.00	0.65	
SO4	0.02082	32.00	0.67	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	852.00	13.96	
		Sum of Anions	15.28	meq/L
Balance (% difference) *			3.34	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E6D
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	31.00	1.35	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.90	0.151	
Ca	0.04990	65.00	3.24	
Mg	0.08229	33.00	2.72	
		Sum of Cations	7.46	meq/L
Cl	0.02821	16.00	0.45	
SO4	0.02082	27.00	0.56	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	7.5	meq/L
Balance (% difference) *			-0.30	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E7D
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	36.00	1.57	
Fe	0.03581			
Mn	0.0364			
K	0.02258	9.50	0.243	
Ca	0.04990	250.00	12.48	
Mg	0.08229	100.00	8.23	
		Sum of Cations	22.5	meq/L
Cl	0.02821	46.00	1.30	
SO4	0.02082	270.00	5.63	
NO3	0.01613	1.90	0.03	
HCO3	0.01639	900.00	14.75	
		Sum of Anions	21.7	meq/L
Balance (% difference) *			1.83	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E8D
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	22.00	0.96	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.10	0.130	
Ca	0.04990	50.00	2.50	
Mg	0.08229	26.00	2.14	
		Sum of Cations	5.72	meq/L
Cl	0.02821	12.00	0.34	
SO4	0.02082	41.00	0.85	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	276.00	4.52	
		Sum of Anions	5.72	meq/L
Balance (% difference) *			0.05	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	E9D
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	15.00	0.65	
Fe	0.03581			
Mn	0.0364			
K	0.02258	15.00	0.384	
Ca	0.04990	32.00	1.60	
Mg	0.08229	34.00	2.80	
		Sum of Cations	5.43	meq/L
Cl	0.02821	40.00	1.13	
SO4	0.02082	18.00	0.38	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	228.00	3.74	
		Sum of Anions	5.24	meq/L
Balance (% difference) *			1.79	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N1D
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	45.00	1.96	
Fe	0.03581			
Mn	0.0364			
K	0.02258	9.00	0.230	
Ca	0.04990	110.00	5.49	
Mg	0.08229	89.00	7.32	
		Sum of Cations	15.0	meq/L
Cl	0.02821	110.00	3.10	
SO4	0.02082	140.00	2.92	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	564.00	9.24	
		Sum of Anions	15.26	meq/L
Balance (% difference) *			-0.87	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2D
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	40.00	1.74	
Fe	0.03581			
Mn	0.0364			
K	0.02258	8.30	0.212	
Ca	0.04990	100.00	4.99	
Mg	0.08229	70.00	5.76	
		Sum of Cations	12.7	meq/L
Cl	0.02821	73.00	2.06	
SO4	0.02082	71.00	1.48	
NO3	0.01613	3.40	0.05	
HCO3	0.01639	516.00	8.46	
		Sum of Anions	12.05	meq/L
Balance (% difference) *			2.64	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N2S
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581			
Mn	0.0364			
K	0.02258	10.00	0.256	
Ca	0.04990	160.00	7.98	
Mg	0.08229	85.00	6.99	
		Sum of Cations	16.67	meq/L
Cl	0.02821	22.00	0.62	
SO4	0.02082	56.00	1.17	
NO3	0.01613	7.70	0.12	
HCO3	0.01639	804.00	13.18	
		Sum of Anions	15.1	meq/L
Balance (% difference) *			4.98	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3D
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	21.00	0.91	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.20	0.159	
Ca	0.04990	74.00	3.69	
Mg	0.08229	28.00	2.30	
		Sum of Cations	7.07	meq/L
Cl	0.02821	38.00	1.07	
SO4	0.02082	26.00	0.54	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	312.00	5.11	
		Sum of Anions	6.73	meq/L
Balance (% difference) *			2.48	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N3S
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	27.00	1.17	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.90	0.151	
Ca	0.04990	120.00	5.99	
Mg	0.08229	44.00	3.62	
		Sum of Cations	10.93	meq/L
Cl	0.02821	32.00	0.90	
SO4	0.02082	41.00	0.85	
NO3	0.01613	7.20	0.12	
HCO3	0.01639	504.00	8.26	
		Sum of Anions	10.13	meq/L
Balance (% difference) *			3.80	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	N5D
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	46.00	2.00	
Fe	0.03581			
Mn	0.0364			
K	0.02258	10.00	0.256	
Ca	0.04990	120.00	5.99	
Mg	0.08229	89.00	7.32	
		Sum of Cations	15.57	meq/L
Cl	0.02821	90.00	2.54	
SO4	0.02082	77.00	1.60	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	648.00	10.62	
		Sum of Anions	14.76	meq/L
Balance (% difference) *			2.66	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1D
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	24.00	1.04	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.90	0.151	
Ca	0.04990	55.00	2.74	
Mg	0.08229	33.00	2.72	
		Sum of Cations	6.65	meq/L
Cl	0.02821	35.00	0.99	
SO4	0.02082	37.00	0.77	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	300.00	4.92	
		Sum of Anions	6.67	meq/L
Balance (% difference) *			-0.15	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	NE1S
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	19.00	0.83	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.70	0.146	
Ca	0.04990	110.00	5.49	
Mg	0.08229	38.00	3.13	
		Sum of Cations	9.59	meq/L
Cl	0.02821	25.00	0.71	
SO4	0.02082	86.00	1.79	
NO3	0.01613	7.80	0.13	
HCO3	0.01639	384.00	6.29	
		Sum of Anions	8.92	meq/L
Balance (% difference) *			3.63	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S10S
Sample Date	10/25/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	25.00	1.09	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.00	0.153	
Ca	0.04990	110.00	5.49	
Mg	0.08229	65.00	5.35	
		Sum of Cations	12.08	meq/L
Cl	0.02821	57.00	1.61	
SO4	0.02082	73.00	1.52	
NO3	0.01613	22.00	0.35	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	10.76	meq/L
Balance (% difference) *			5.77	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11D
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	35.00	1.52	
Fe	0.03581			
Mn	0.0364			
K	0.02258	7.50	0.192	
Ca	0.04990	73.00	3.64	
Mg	0.08229	52.00	4.28	
		Sum of Cations	9.64	meq/L
Cl	0.02821	71.00	2.00	
SO4	0.02082	31.00	0.65	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	408.00	6.69	
		Sum of Anions	9.34	meq/L
Balance (% difference) *			1.59	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	S11S
Sample Date	10/26/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	33.00	1.44	
Fe	0.03581			
Mn	0.0364			
K	0.02258	6.60	0.169	
Ca	0.04990	75.00	3.74	
Mg	0.08229	51.00	4.20	
		Sum of Cations	9.54	meq/L
Cl	0.02821	60.00	1.69	
SO4	0.02082	29.00	0.60	
NO3	0.01613	0.00	0.00	
HCO3	0.01639	444.00	7.28	
		Sum of Anions	9.57	meq/L
Balance (% difference) *			-0.15	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Cation/Anion Balance

Location	WR1
Sample Date	10/27/2022

Major Ions	Conversion Factor +	mg/l	meq/l	
Na	0.04350	32.00	1.39	
Fe	0.03581			
Mn	0.0364			
K	0.02258	5.50	0.141	
Ca	0.04990	80.00	3.99	
Mg	0.08229	47.00	3.87	
		Sum of Cations	9.4	meq/L
Cl	0.02821	53.00	1.49	
SO4	0.02082	45.00	0.94	
NO3	0.01613	1.70	0.03	
HCO3	0.01639	396.00	6.49	
		Sum of Anions	8.95	meq/L
Balance (% difference) *			2.41	%

+ mg/l to meq/l

* [(Total anions - Total cations) / (Total anions + Total cations)]*100

Table C1 - pH Times Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

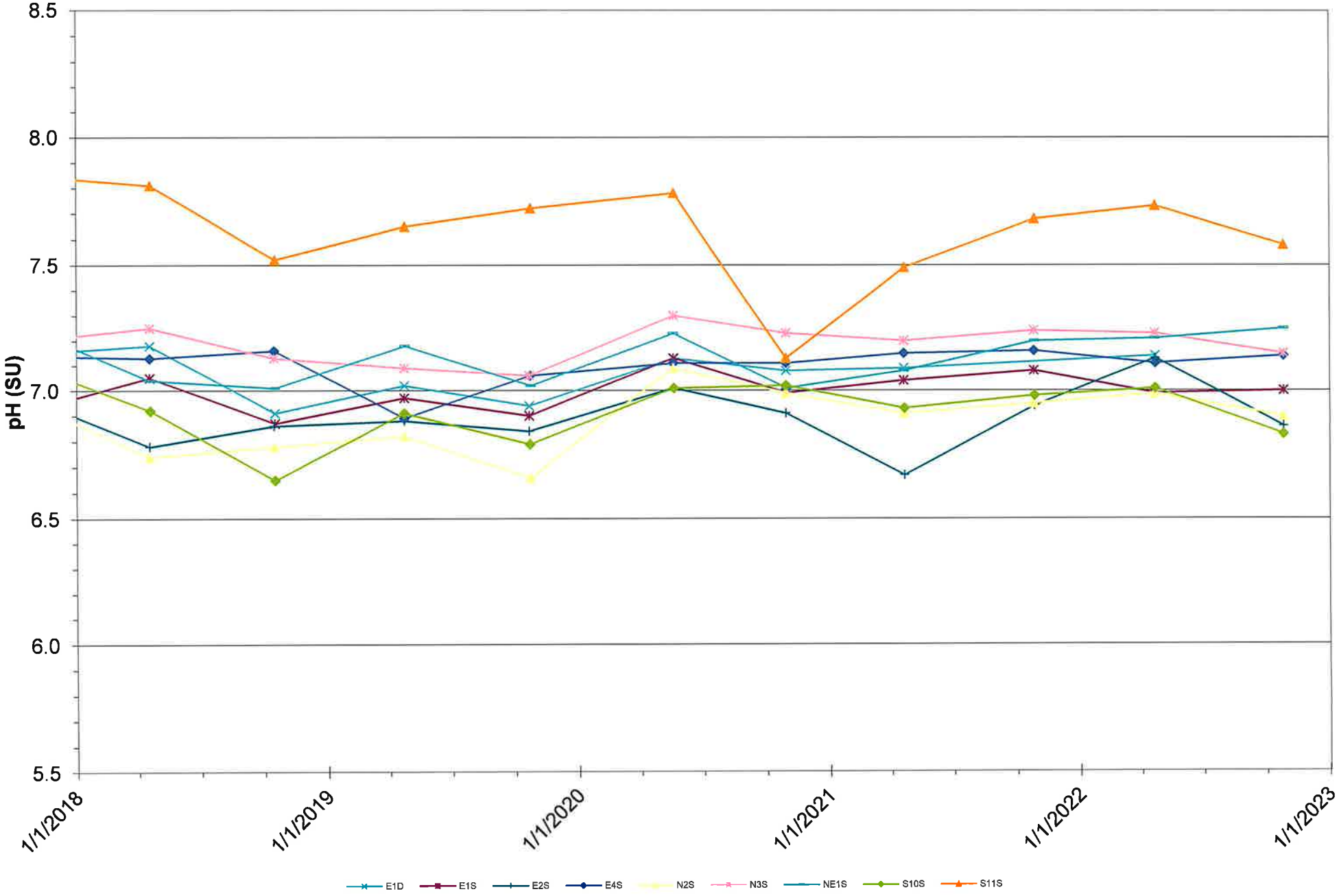


Table C2 - pH Times Series - Aquifer 2
2021 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

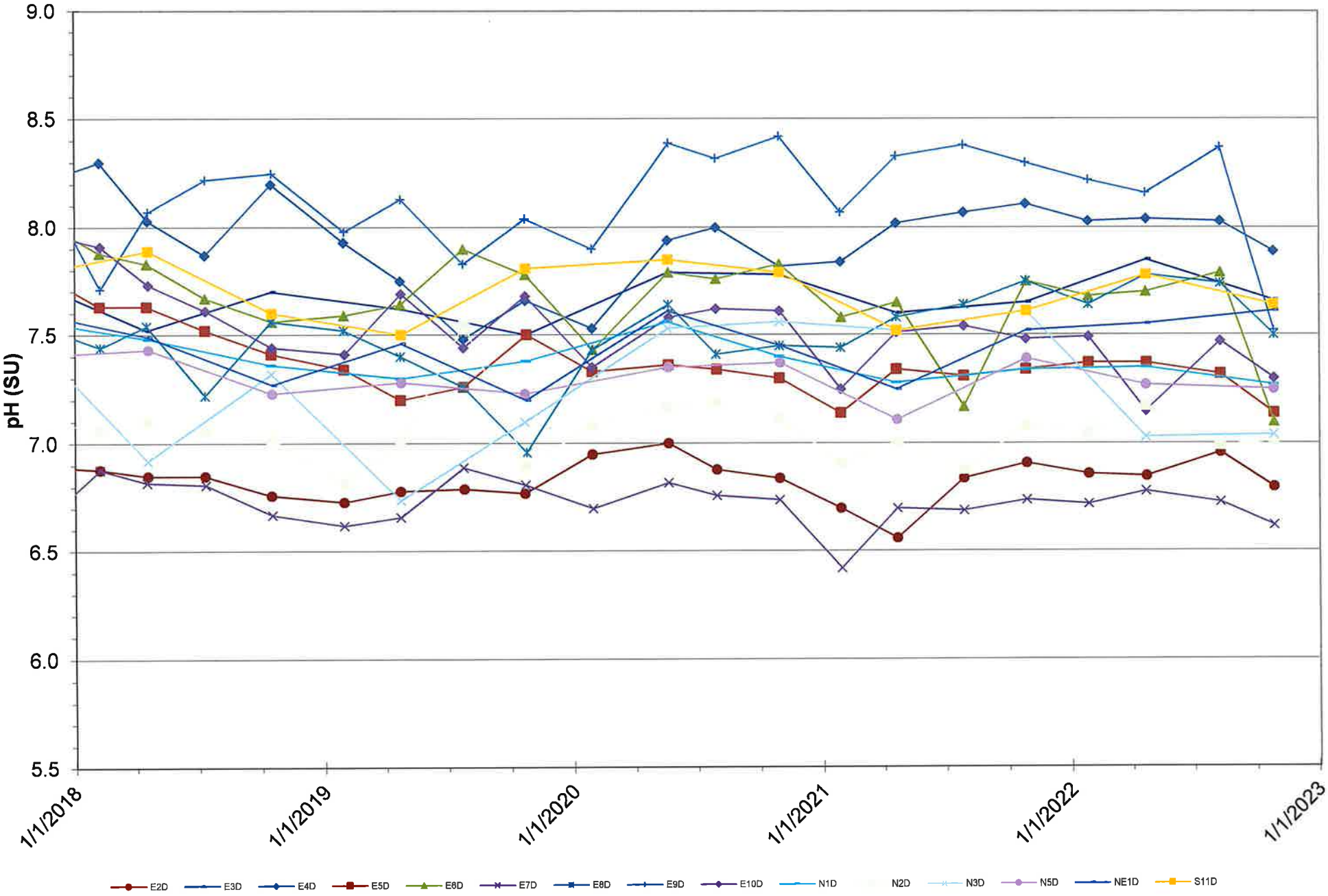


Table C3 - pH Times Series - Pumping Wells
2021 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

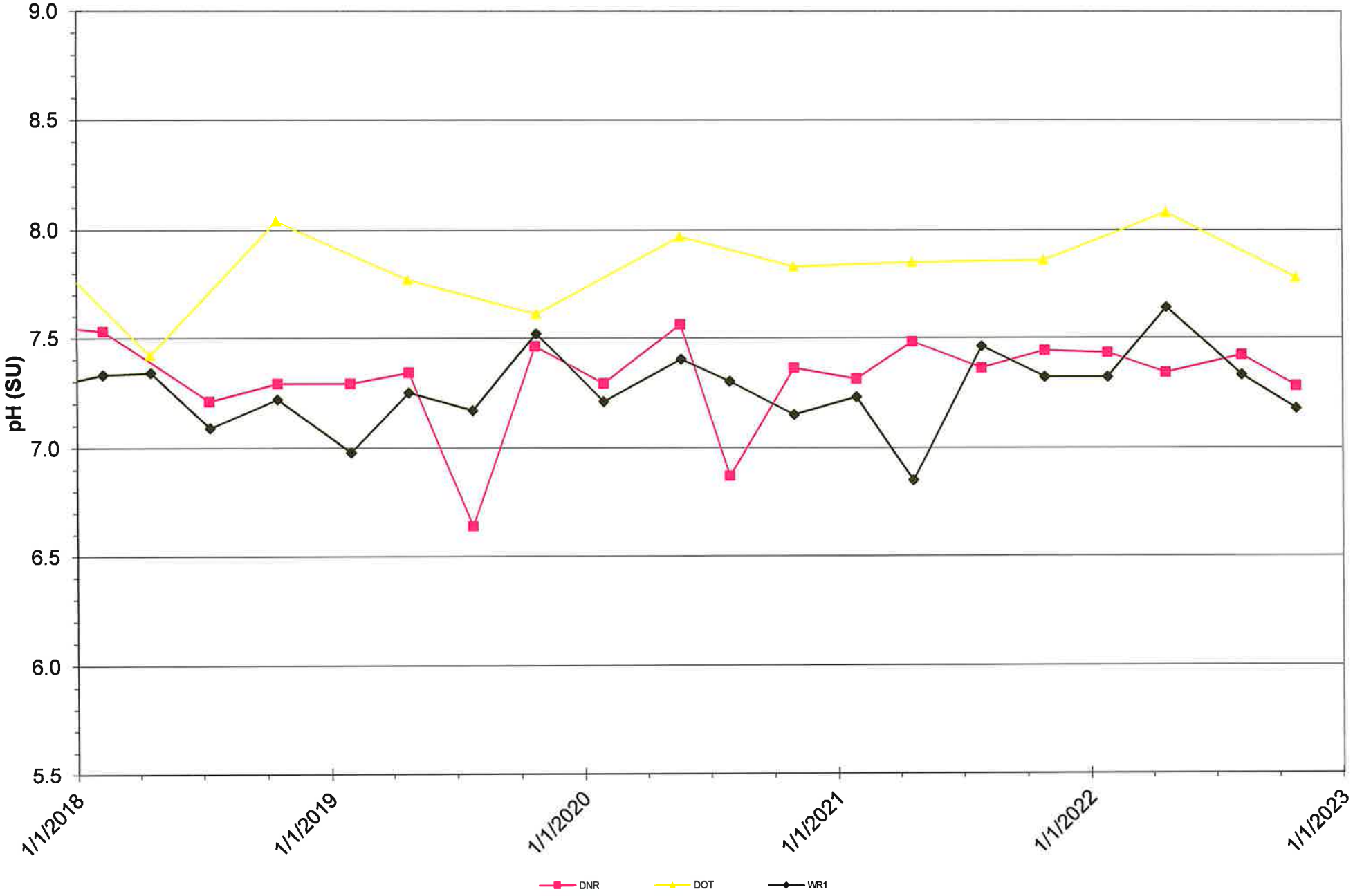


Table C4 - Specific Conductivity Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

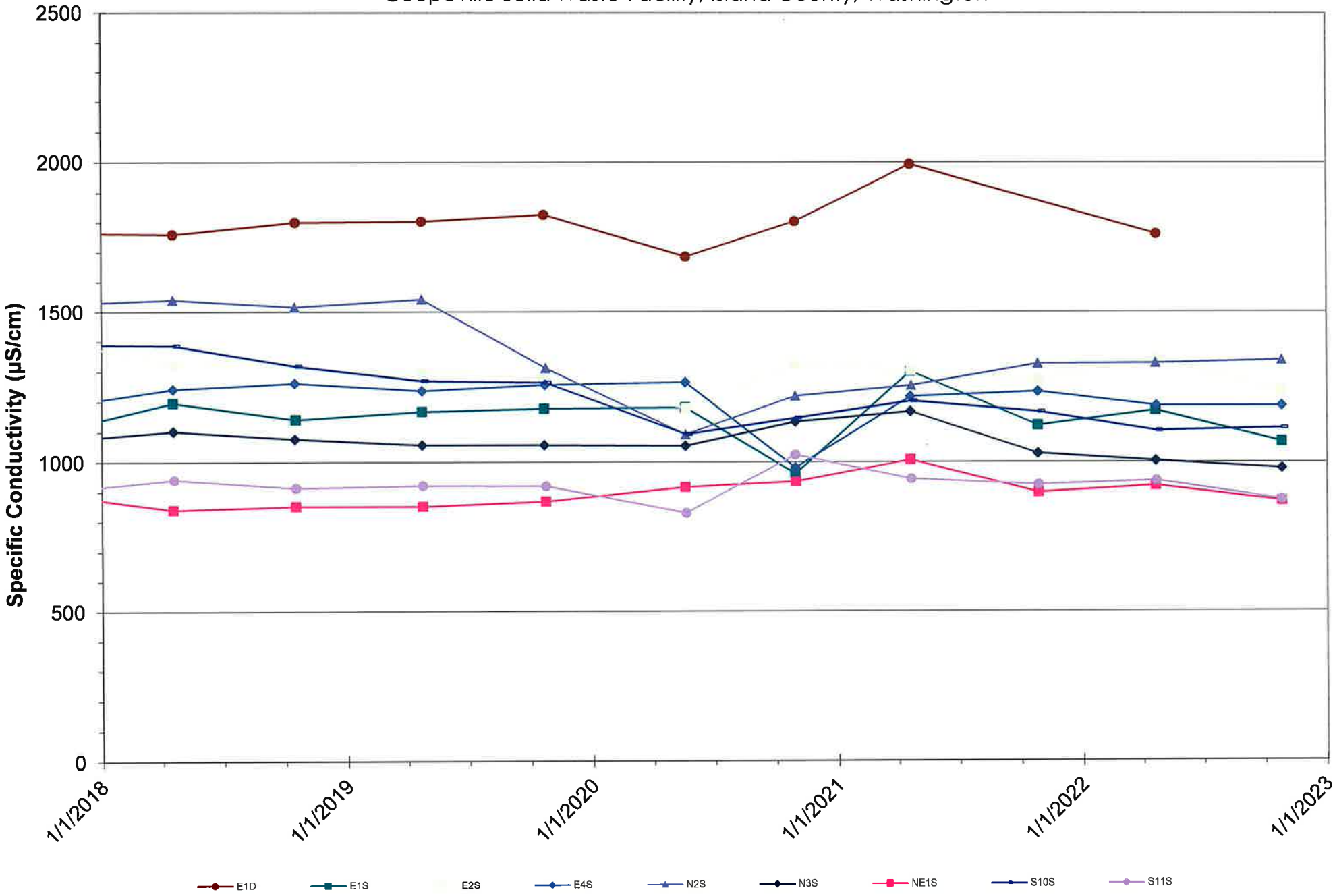


Table C5 - Specific Conductivity Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

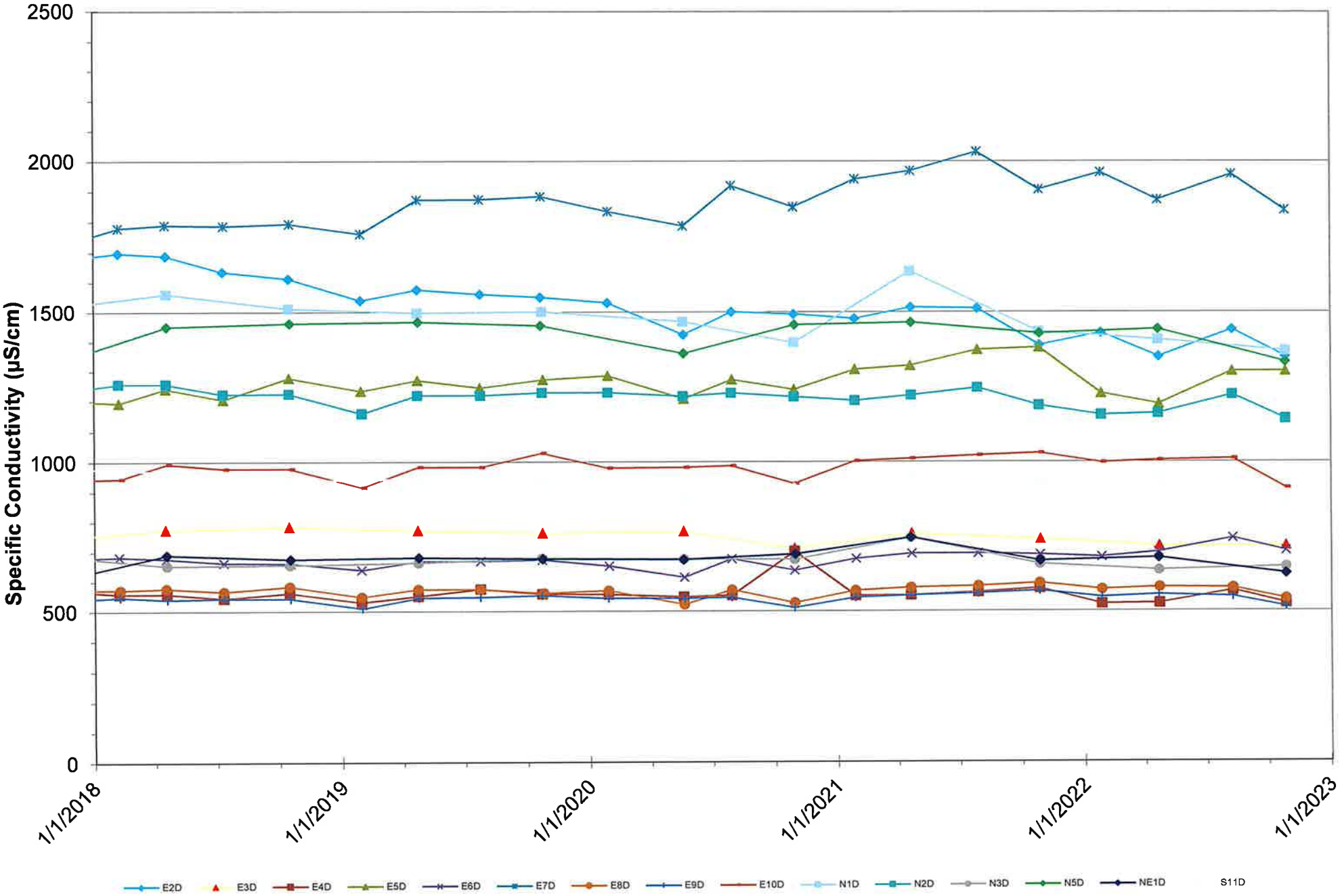


Table C6 - Specific Conductivity Time Series - Pumping Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

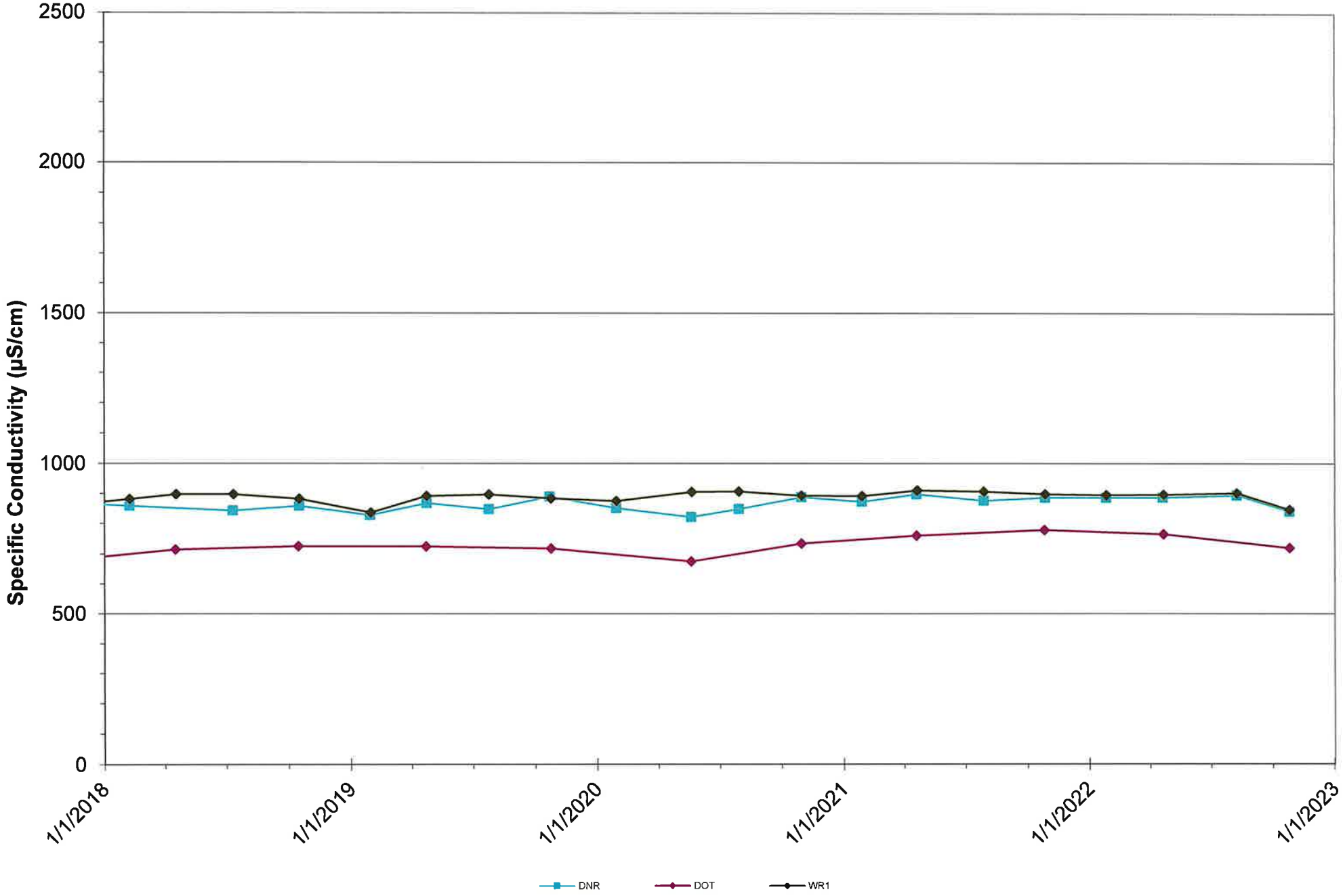


Table C7 - Alkalinity Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

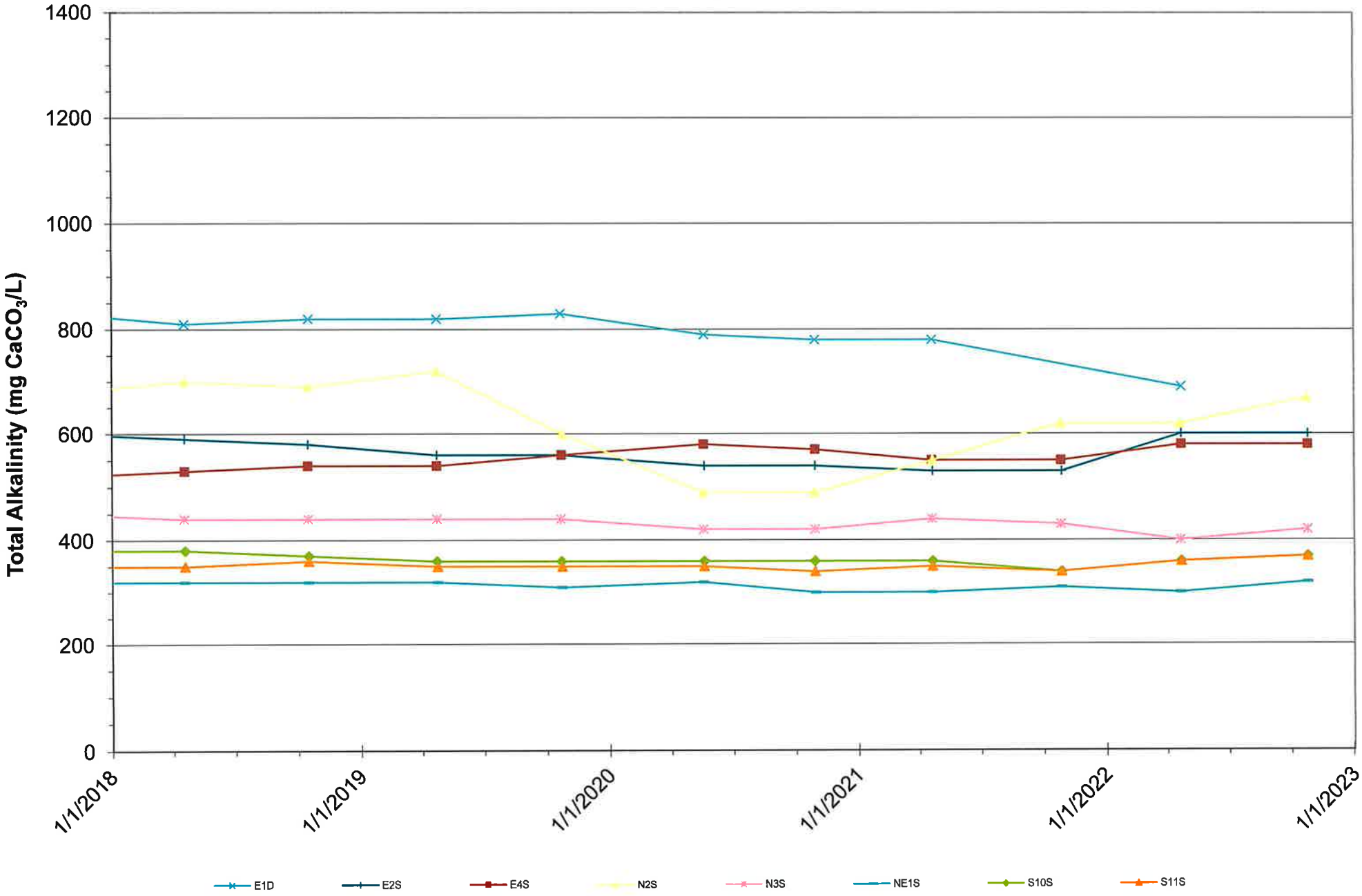


Table C8 - Alkalinity Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

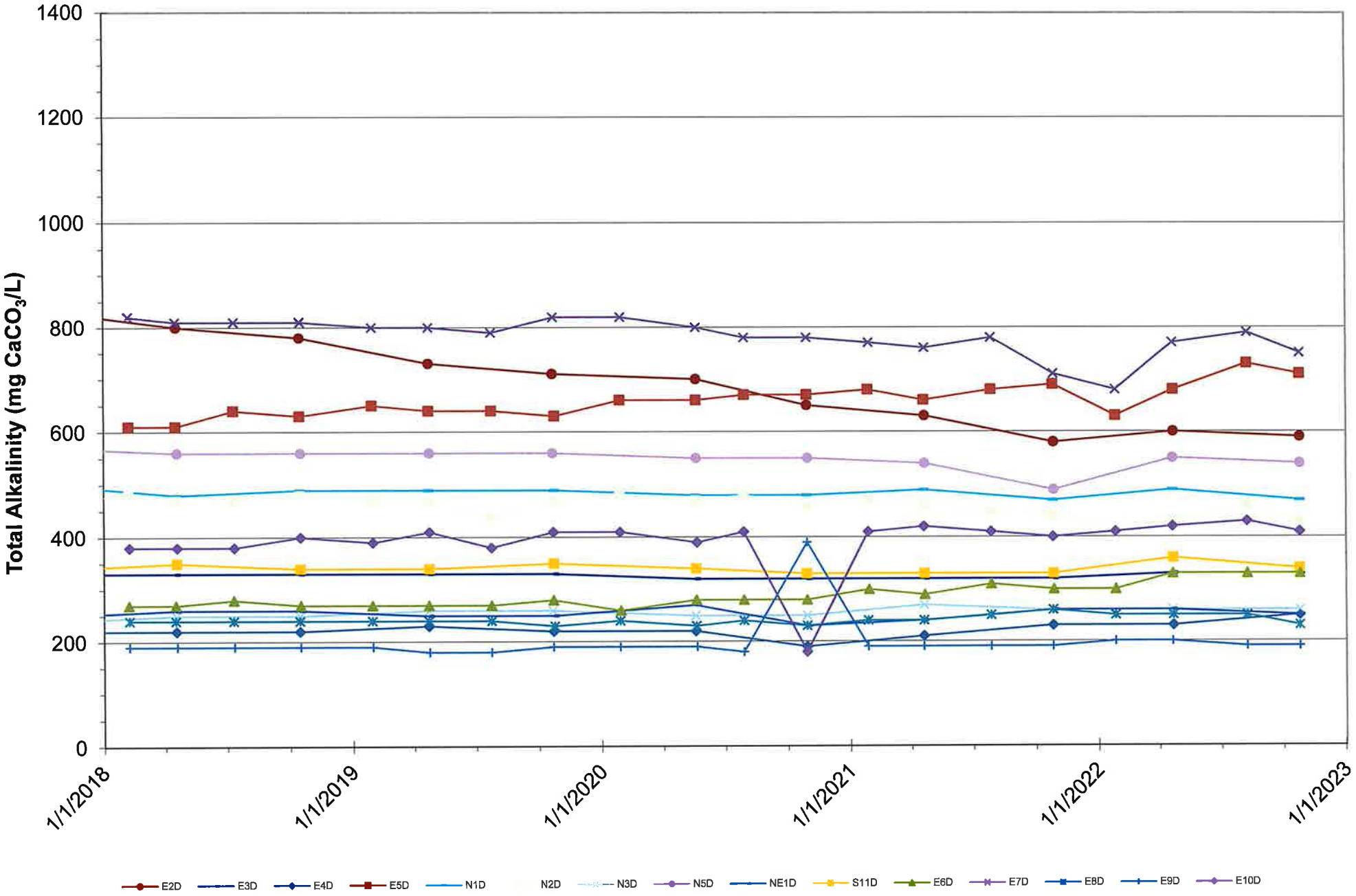


Table C9 - Total Alkalinity Time Series - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

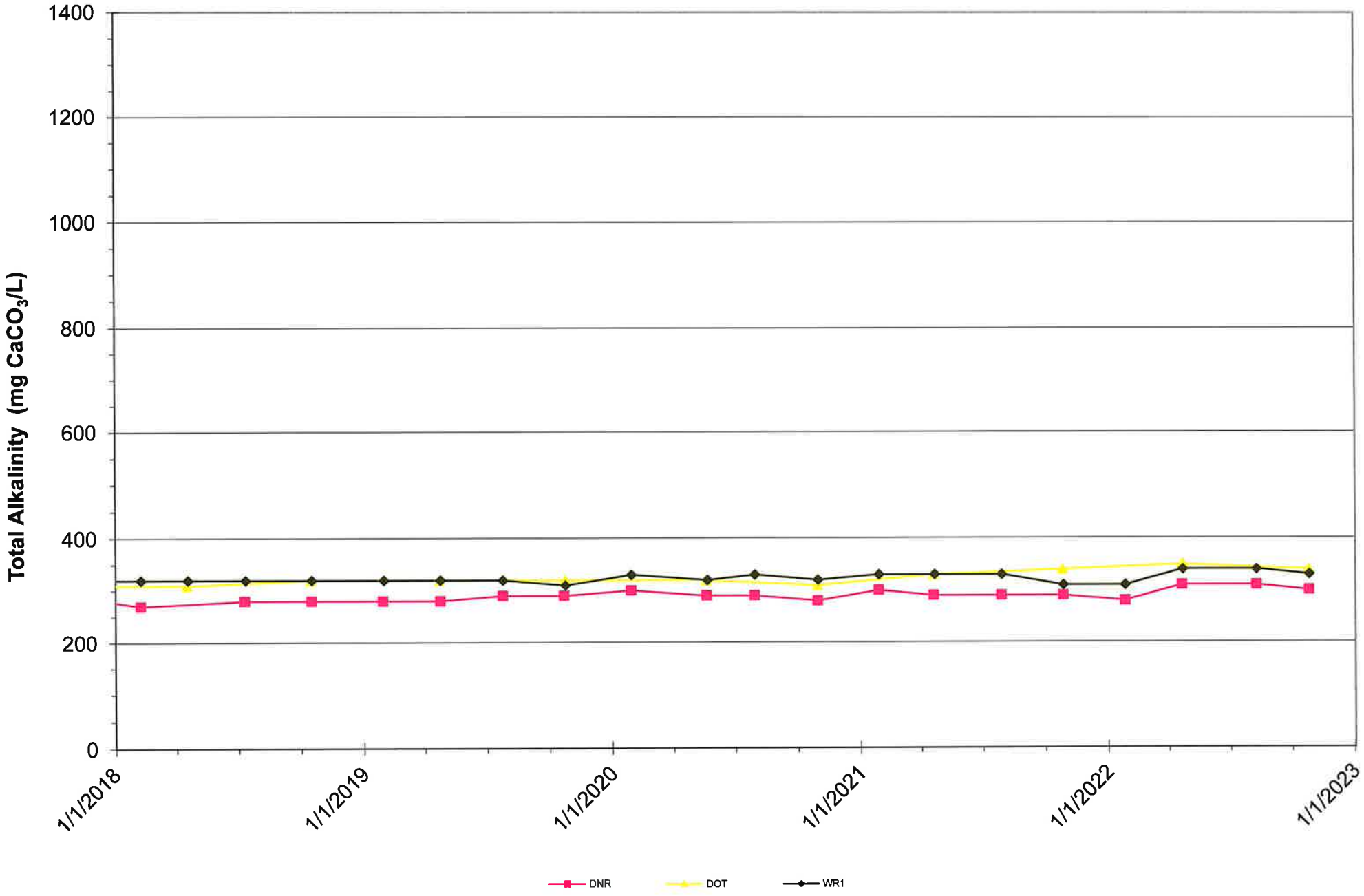


Table C10 - Chloride Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

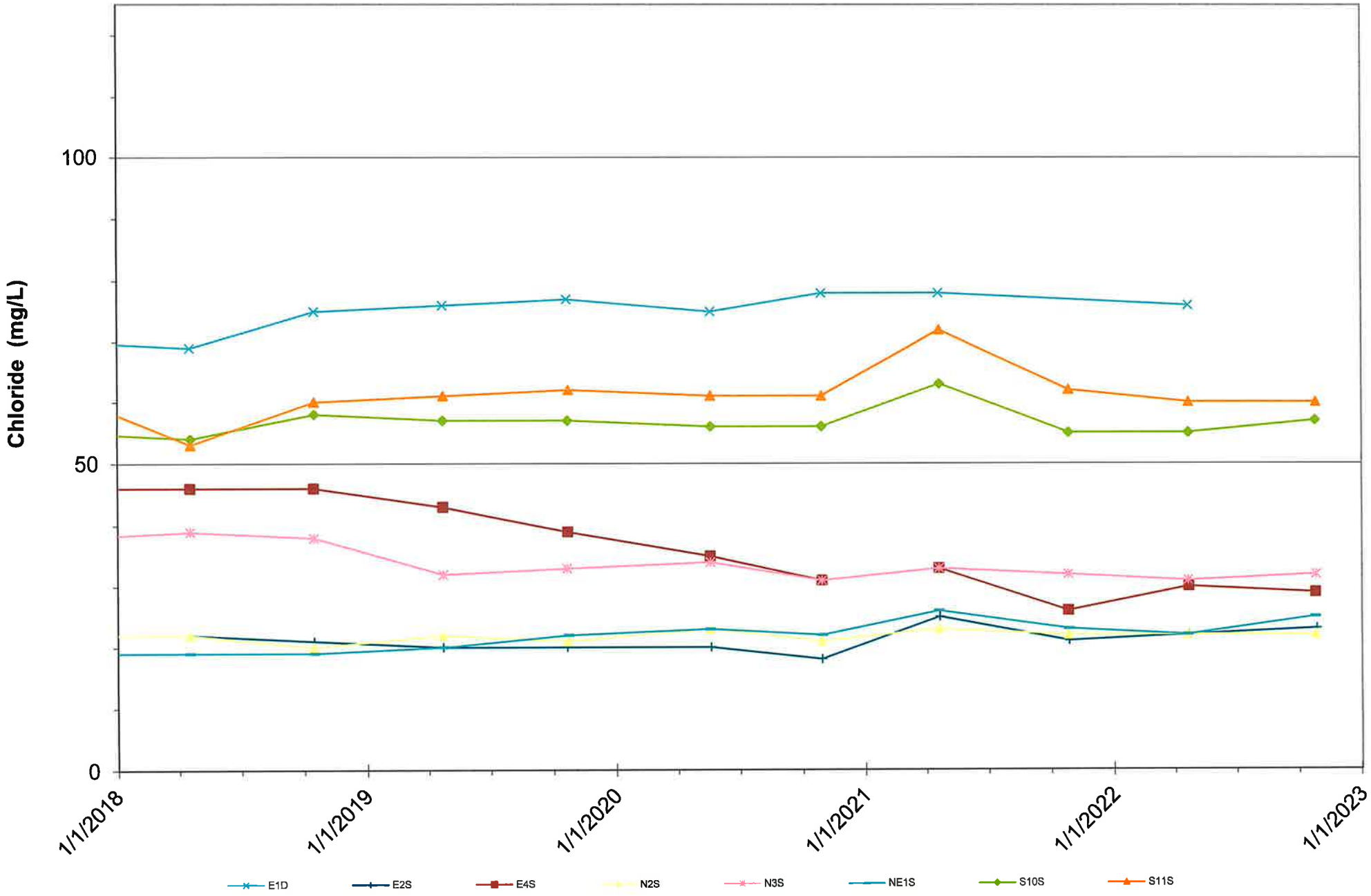


Table C11 - Chloride Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

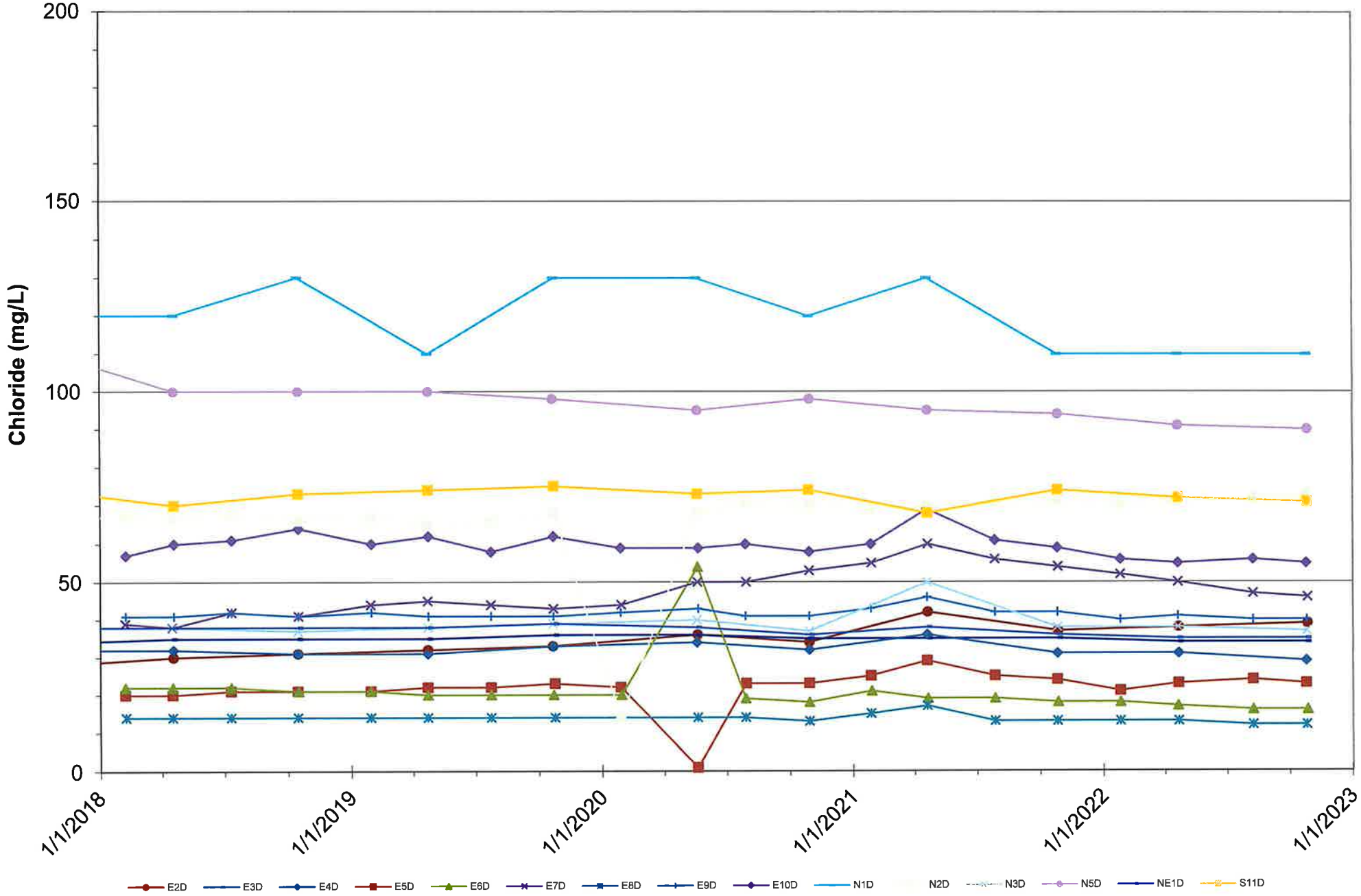
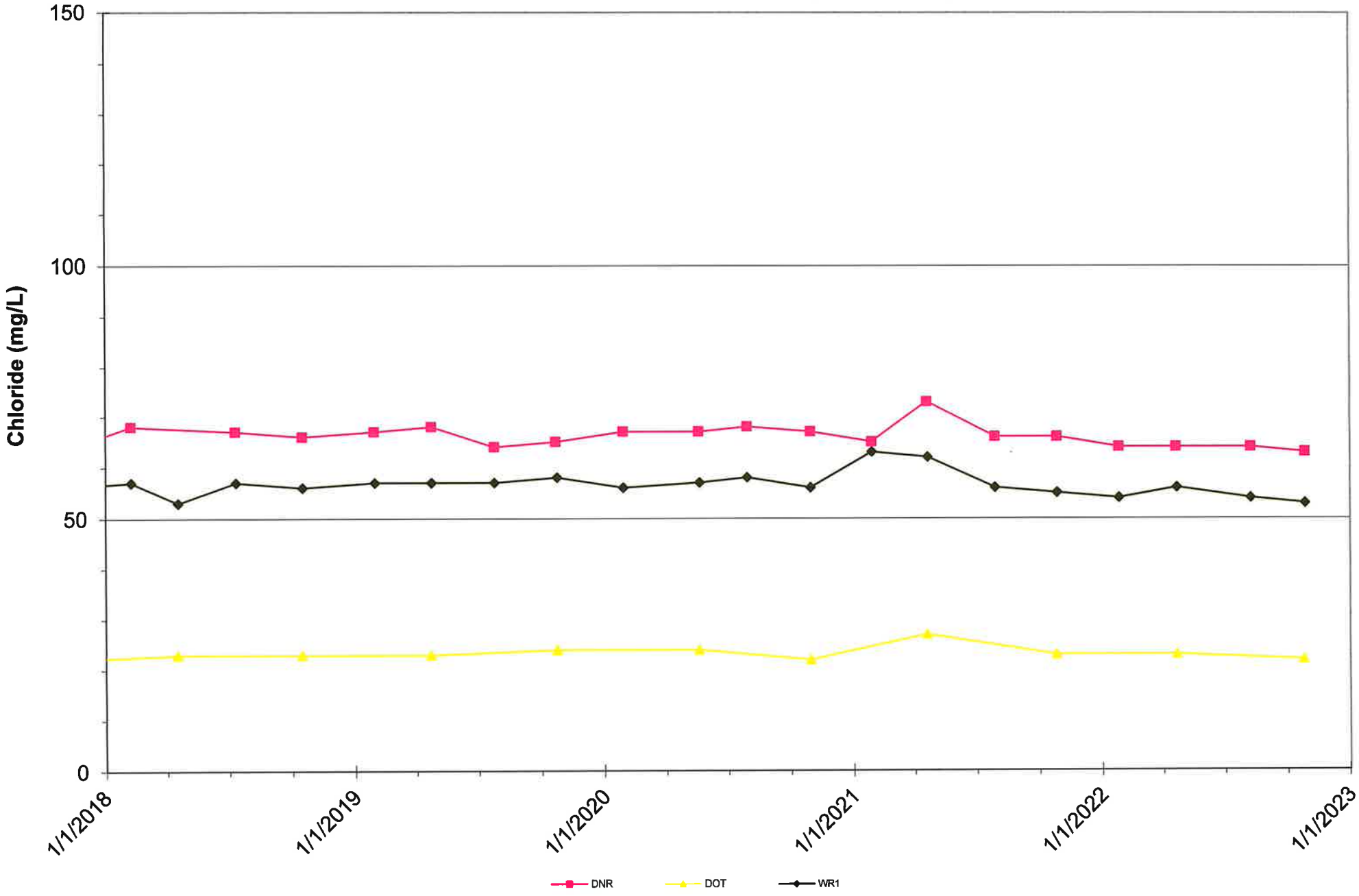


Table C12 - Chloride Time Series - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington



Tables C13 - Sulfate Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

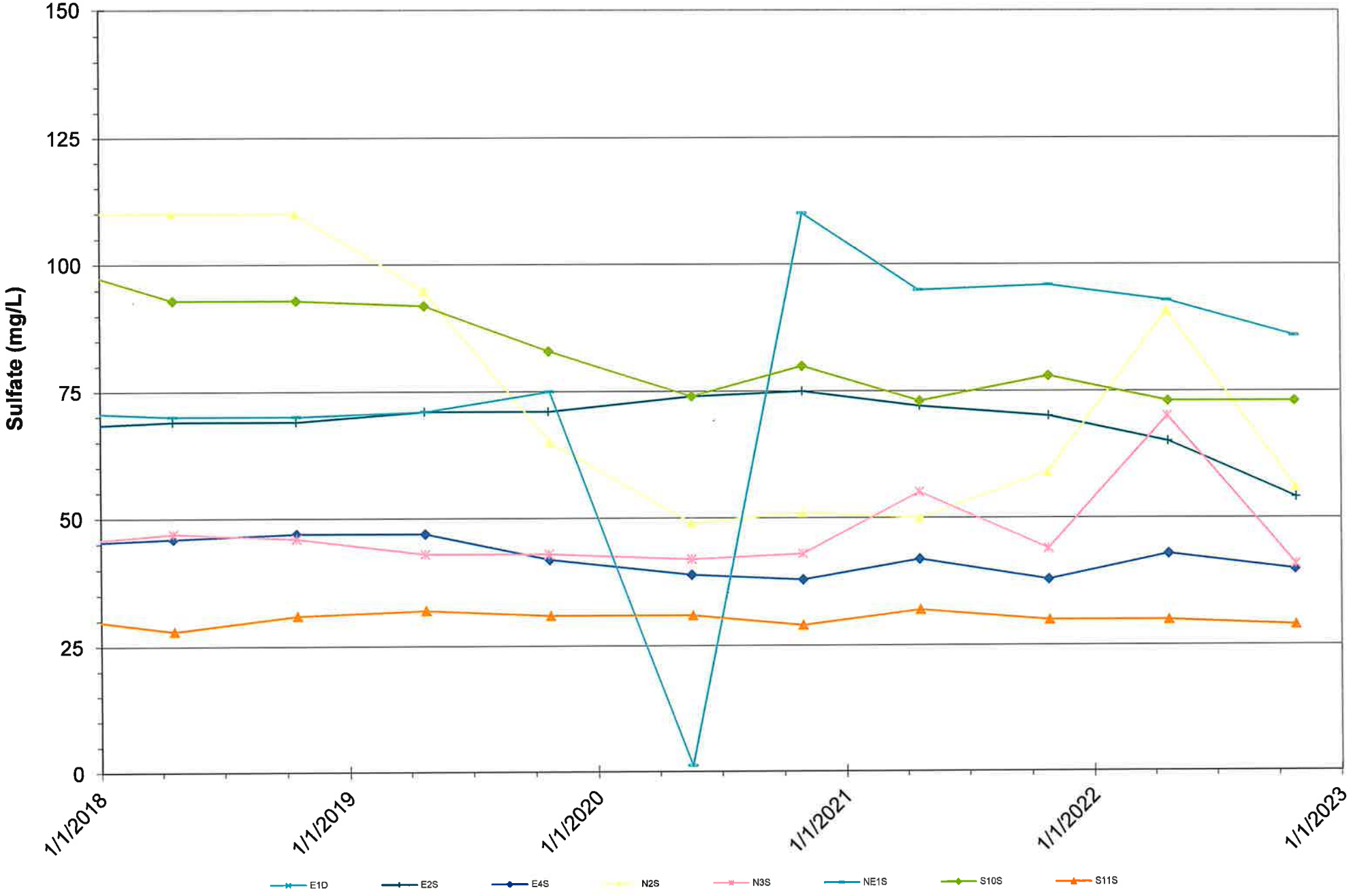


Table C14 - Sulfate Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

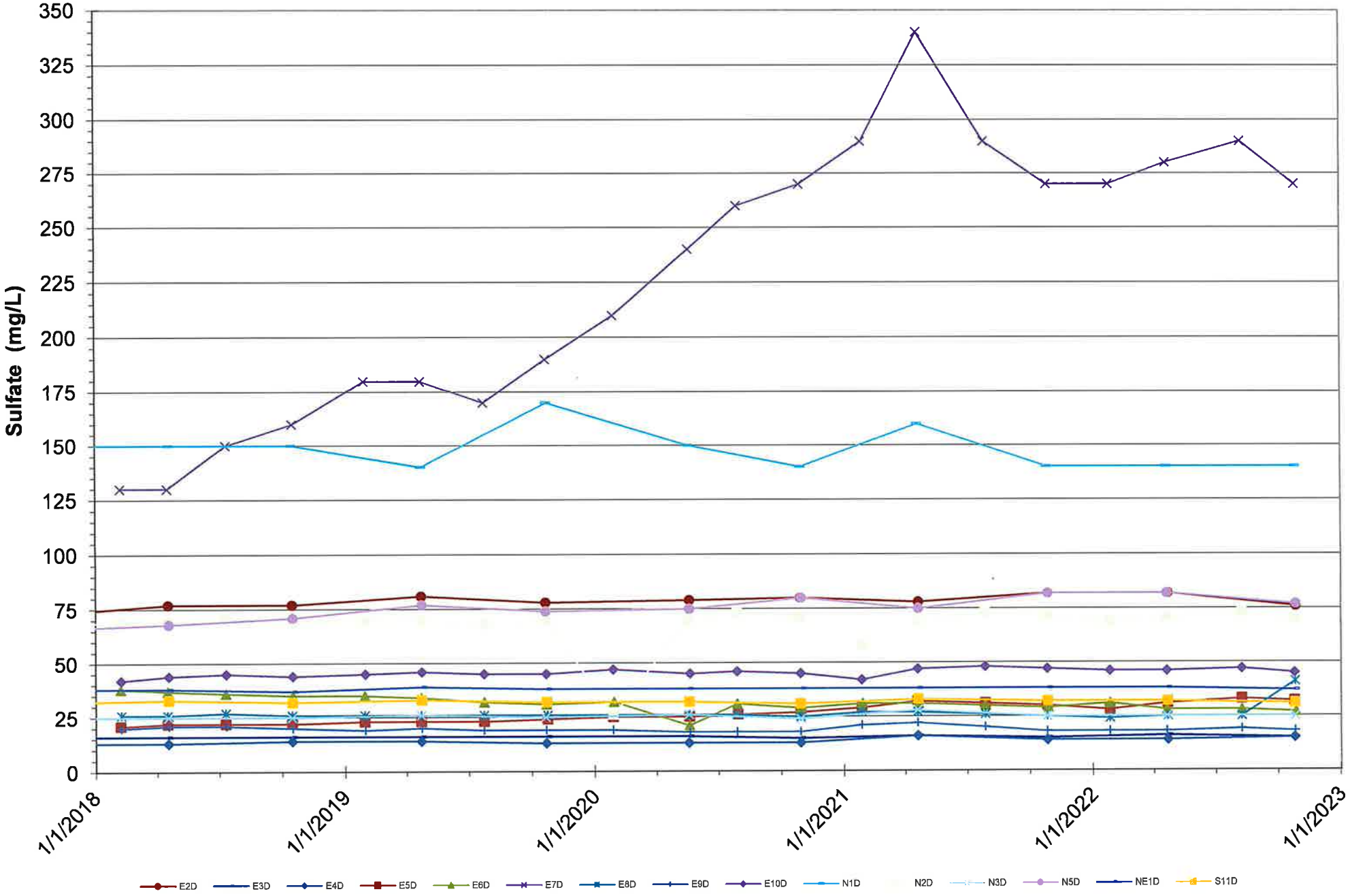


Table C15 - Sulfate Time Series - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

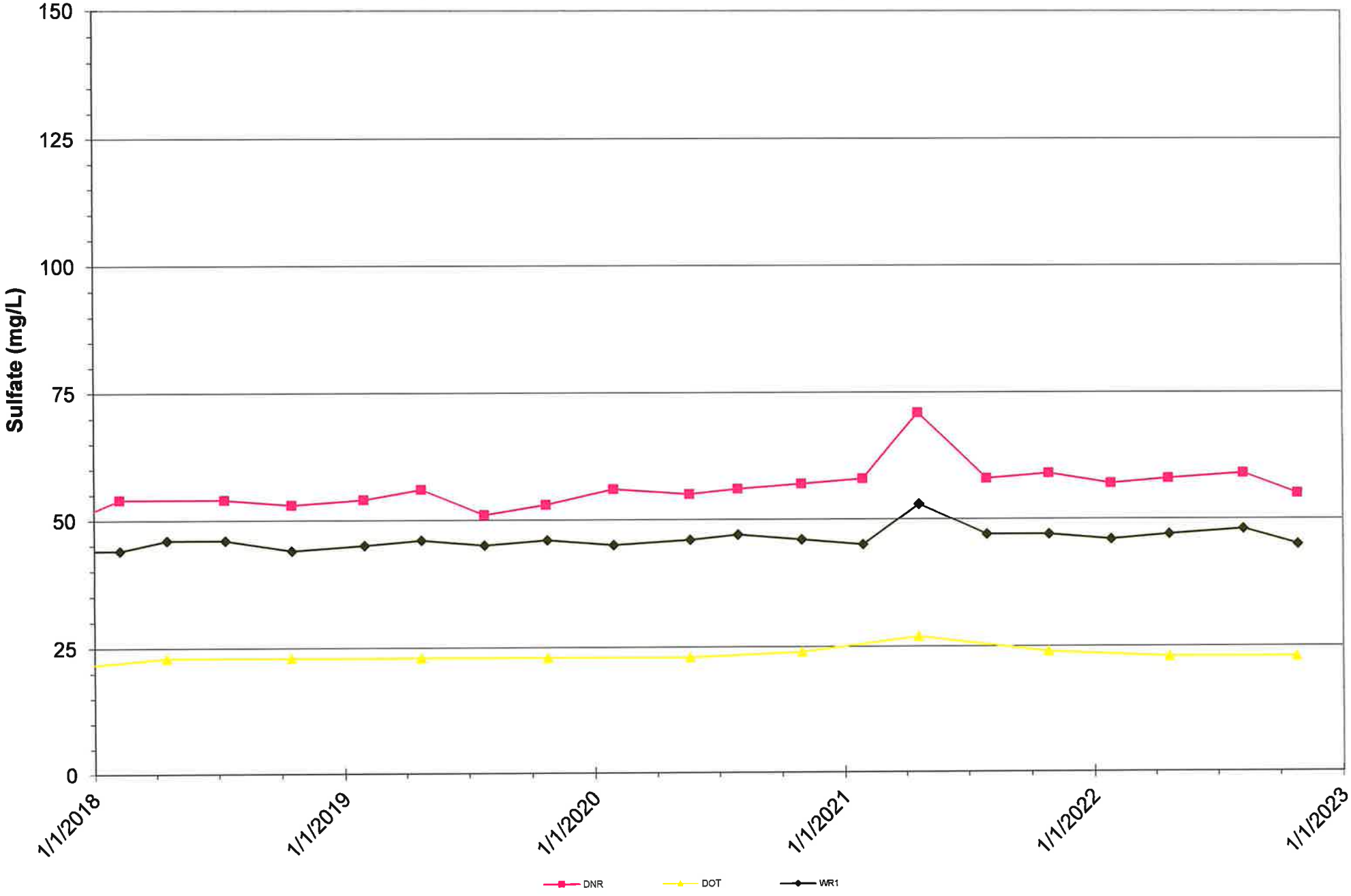


Table C16 - Total Dissolved Solids Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

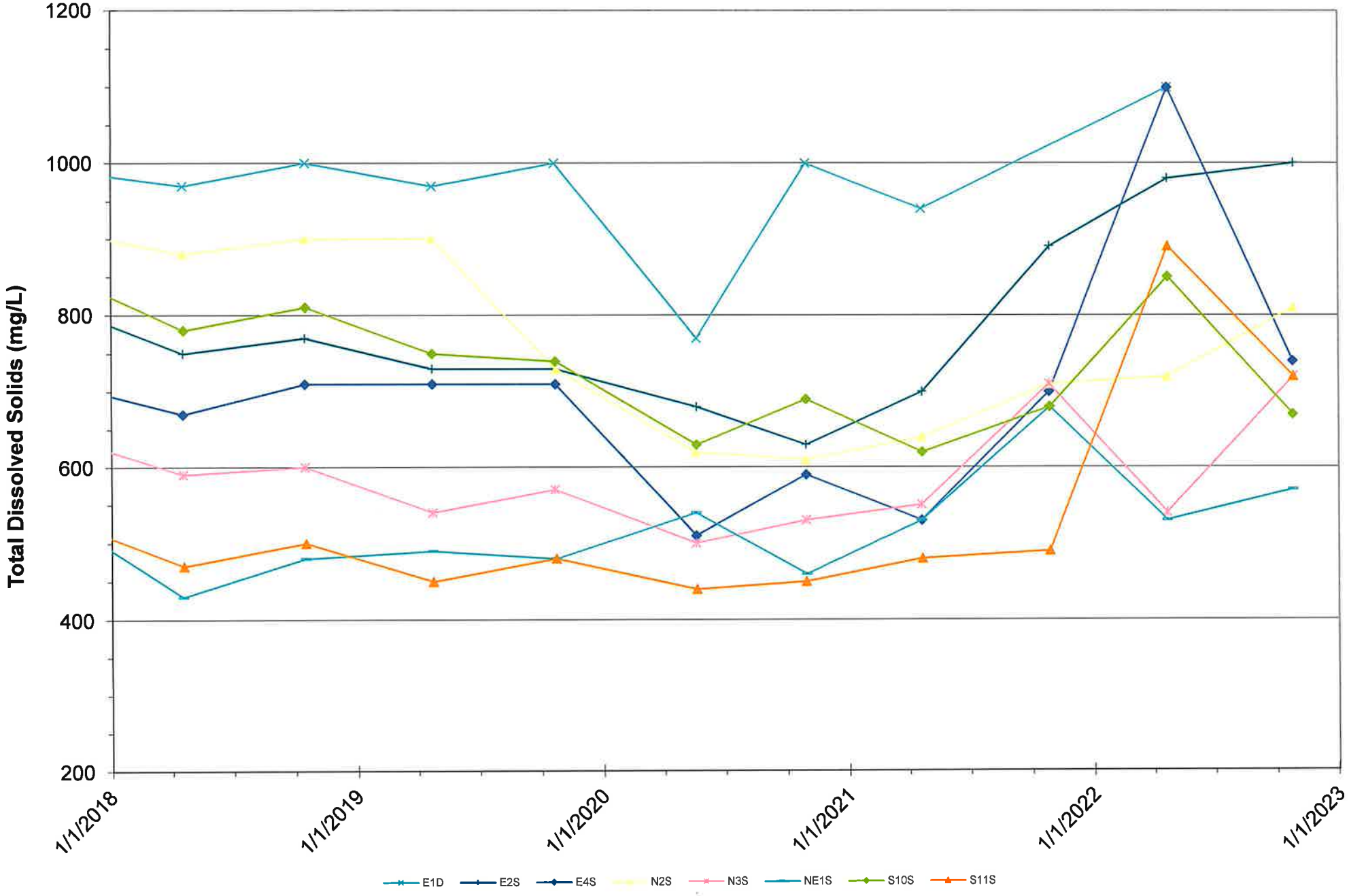


Table C17 - Total Dissolved Solids Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

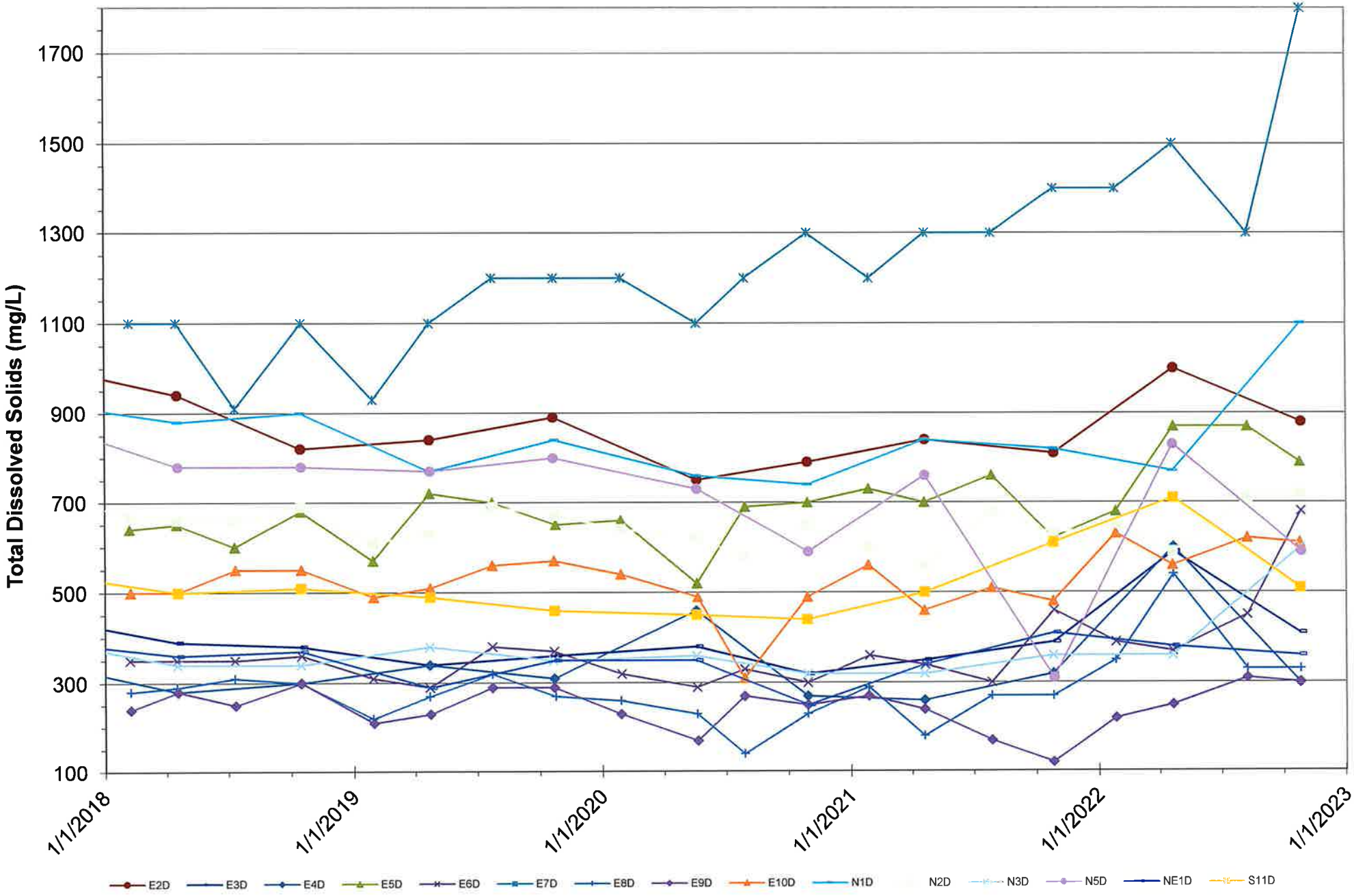


Table C18 -Total Dissolved Solids Time Series - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

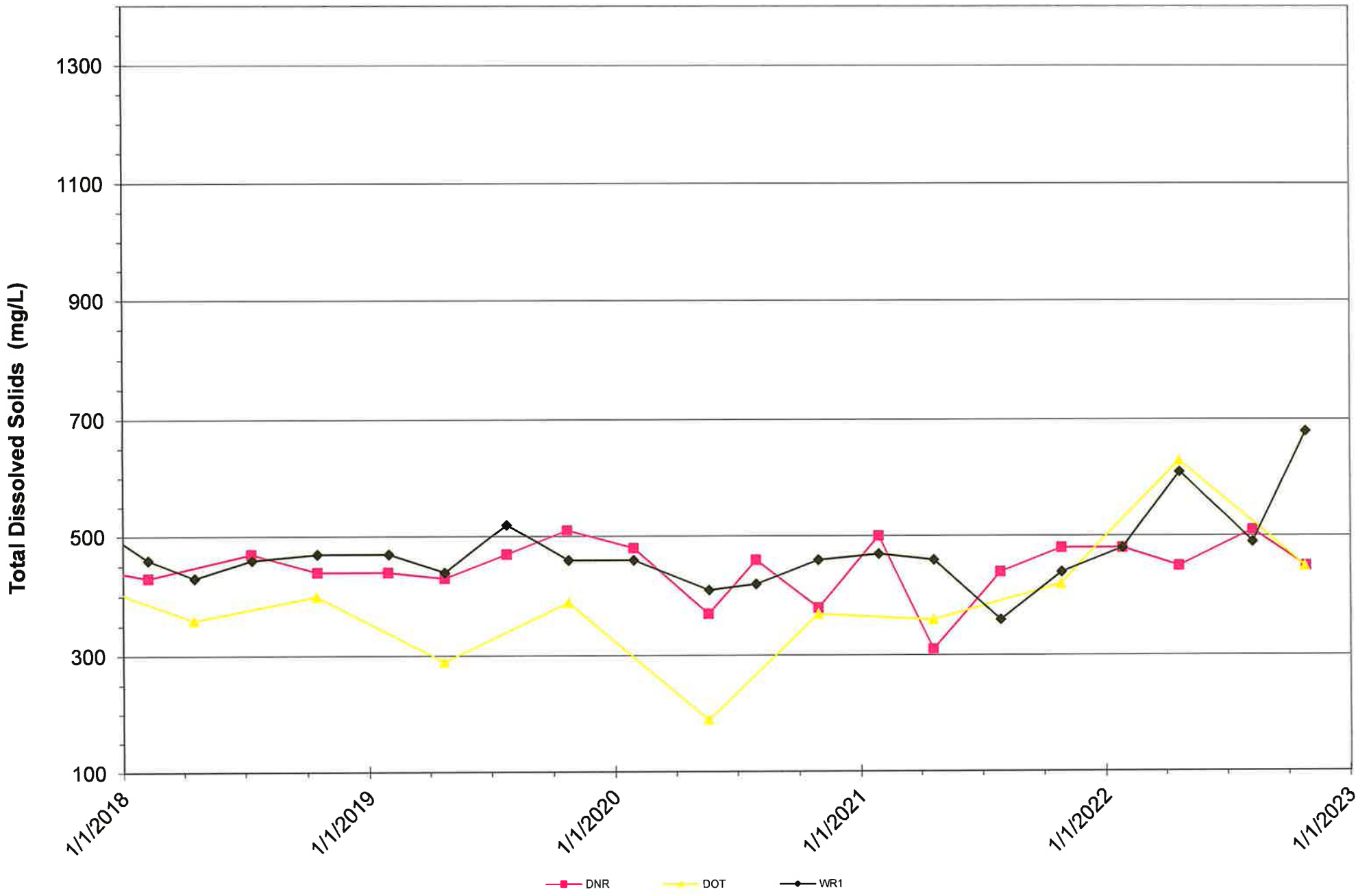


Table C19 - Total Nitrate/Nitrite Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

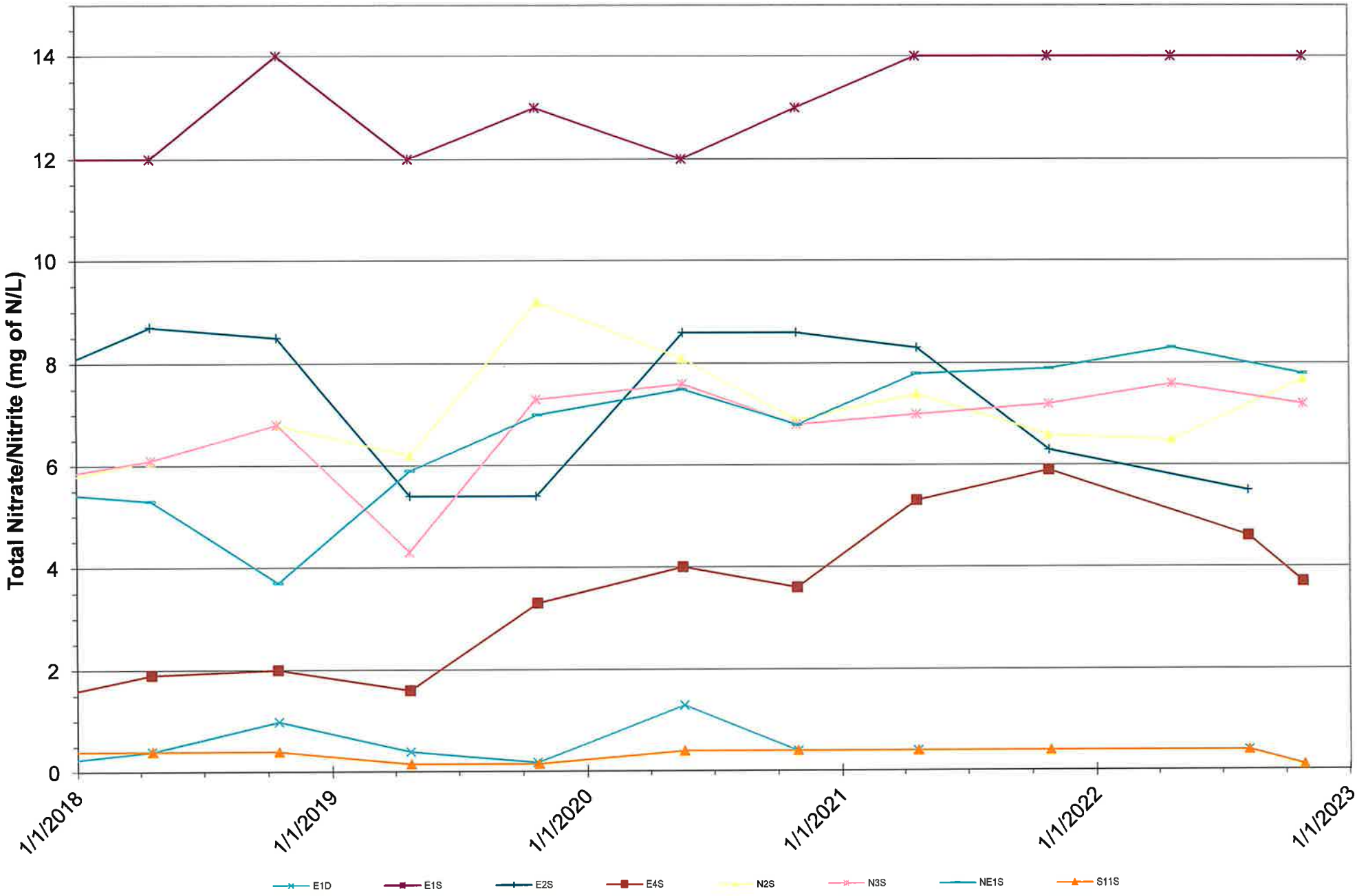


Table C20 -Total Nitrate/Nitrite Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste , Island County, Washington

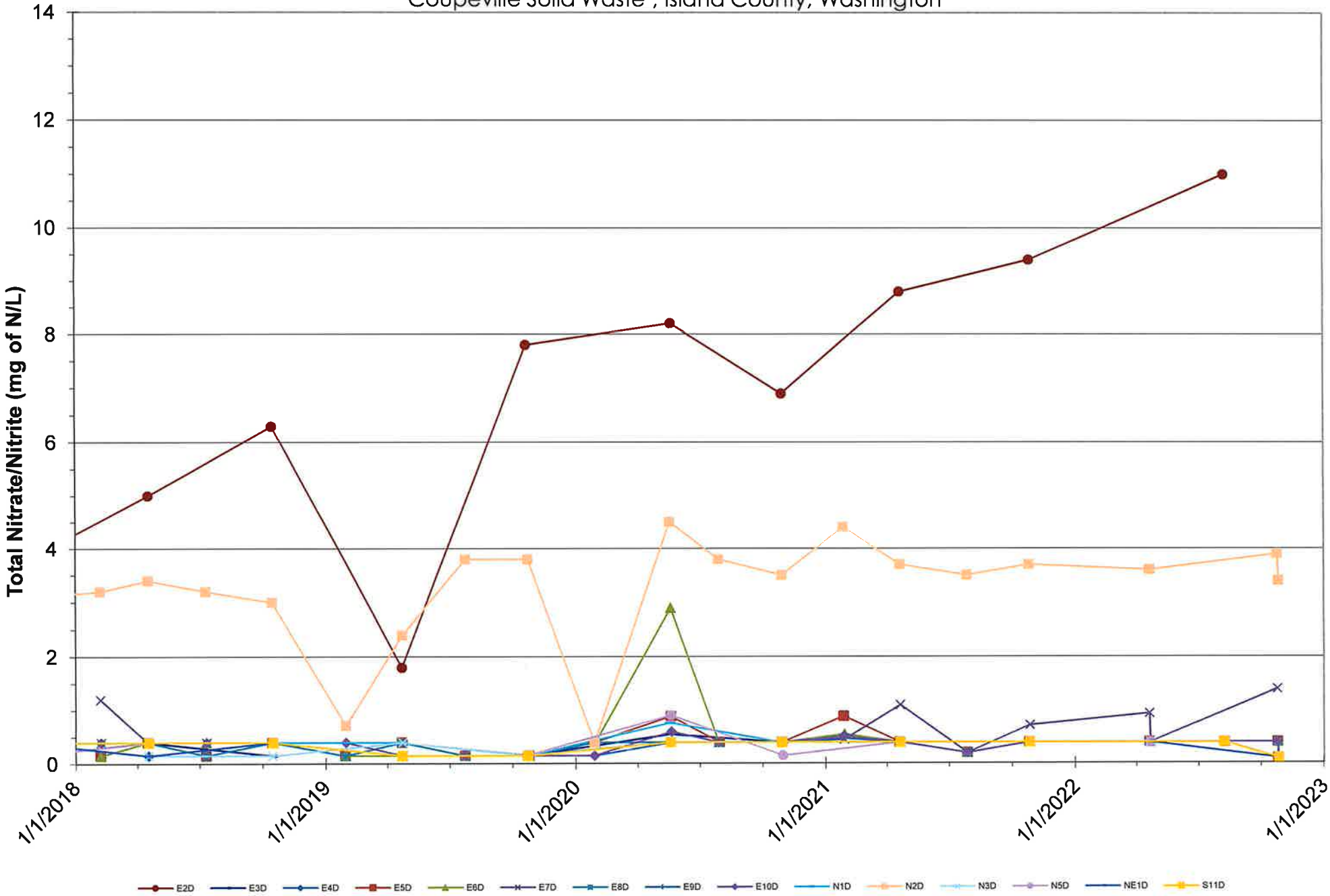


Table C21 - Total Nitrate/Nitrite Time Series - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

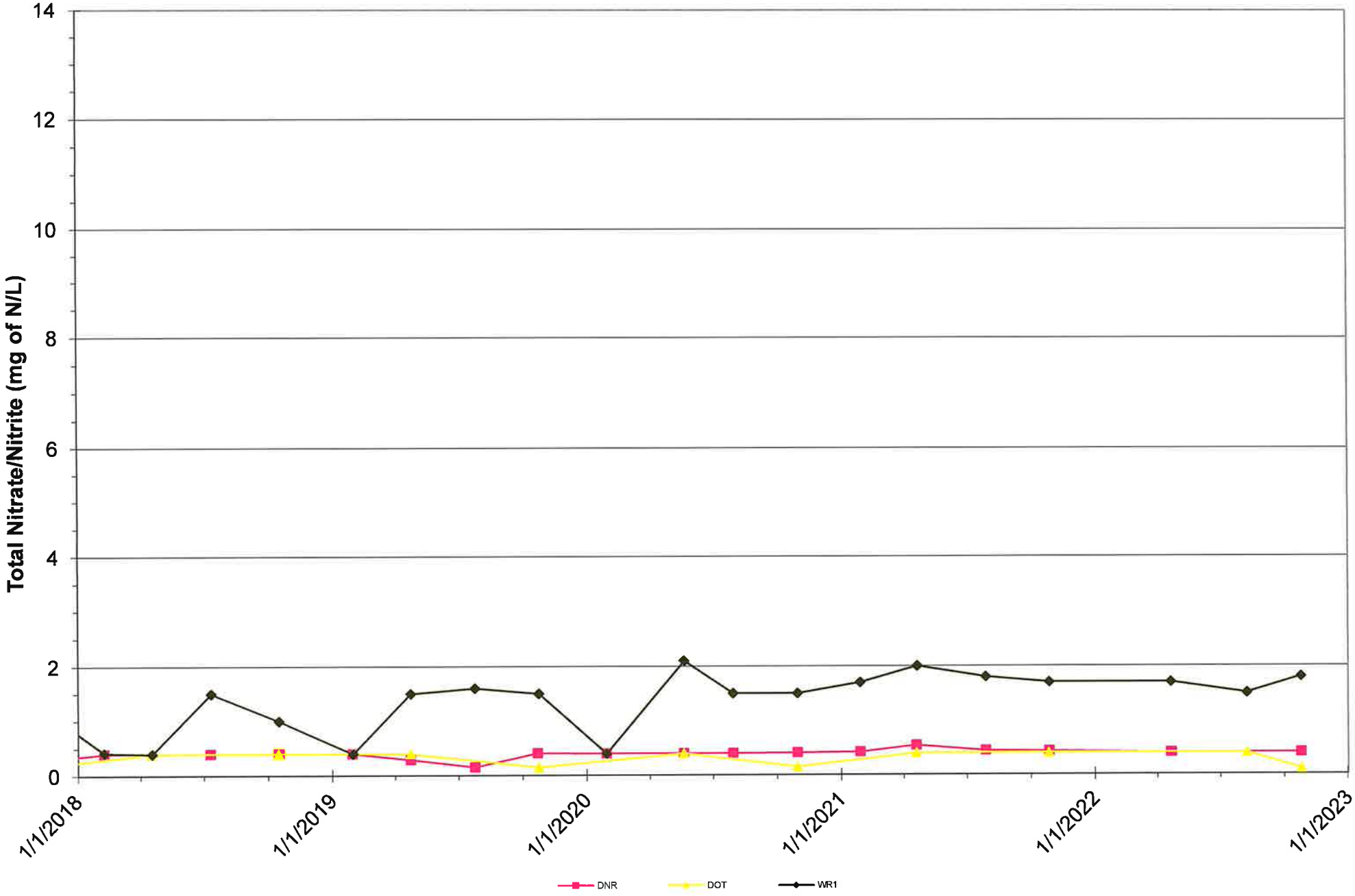


Table C22 -Total Nitrate/Nitrite Time Series - S10S
2022 Annual Moniroting Report
Coupeville Solid Waste Facility, Island County, Washington

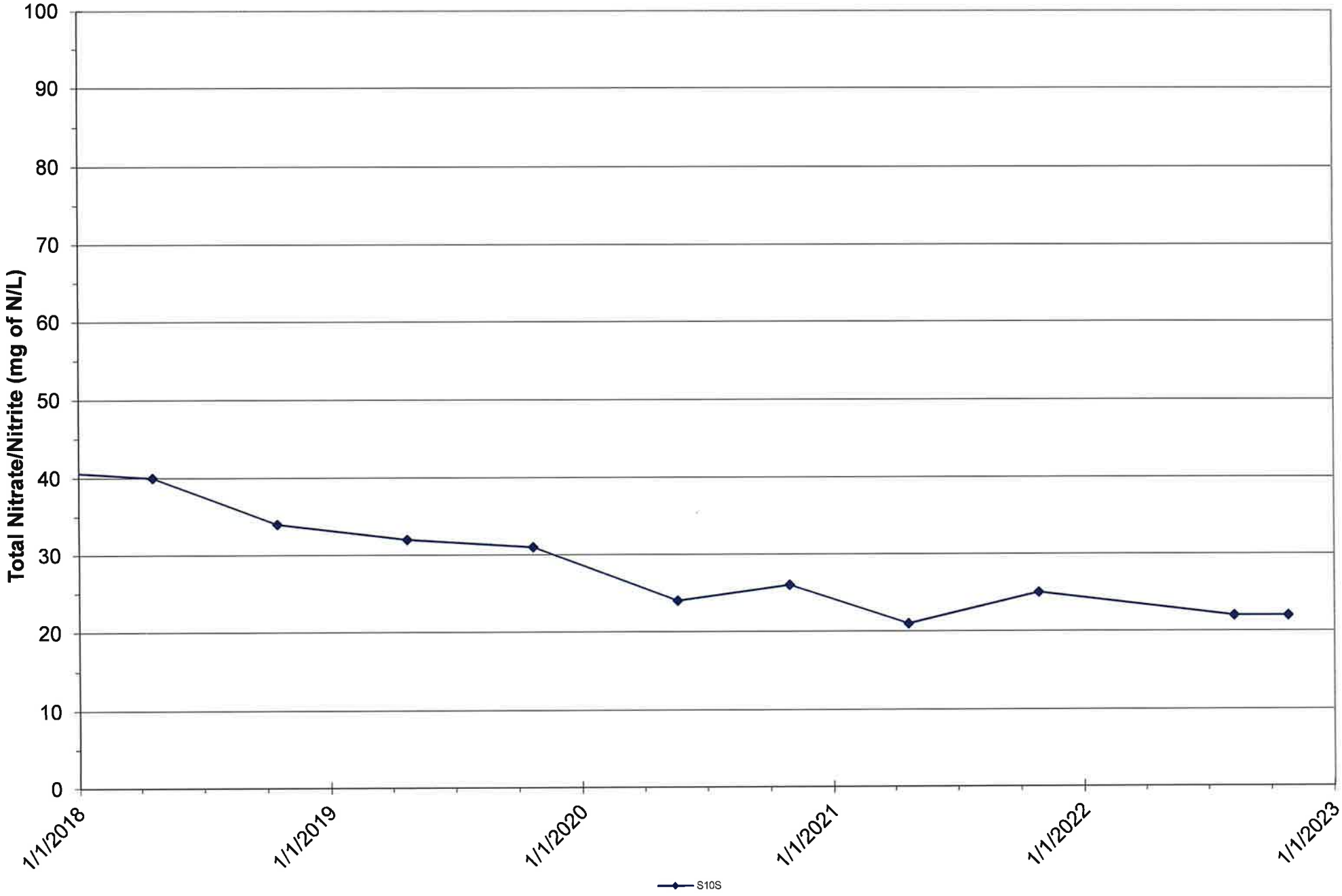


Table C23 - Total Organic Carbon Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

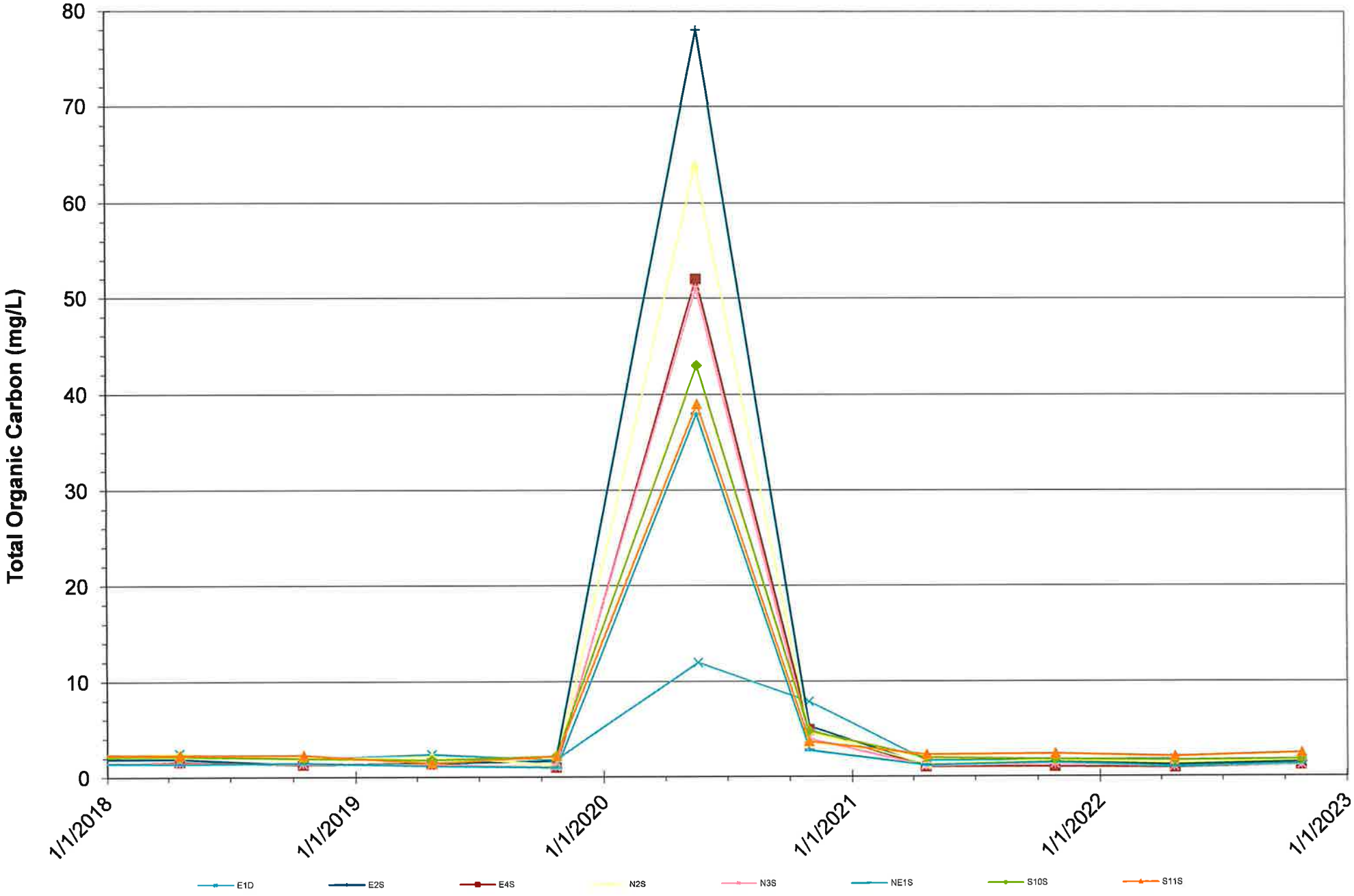


Table C24 - Total Organic Carbon Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

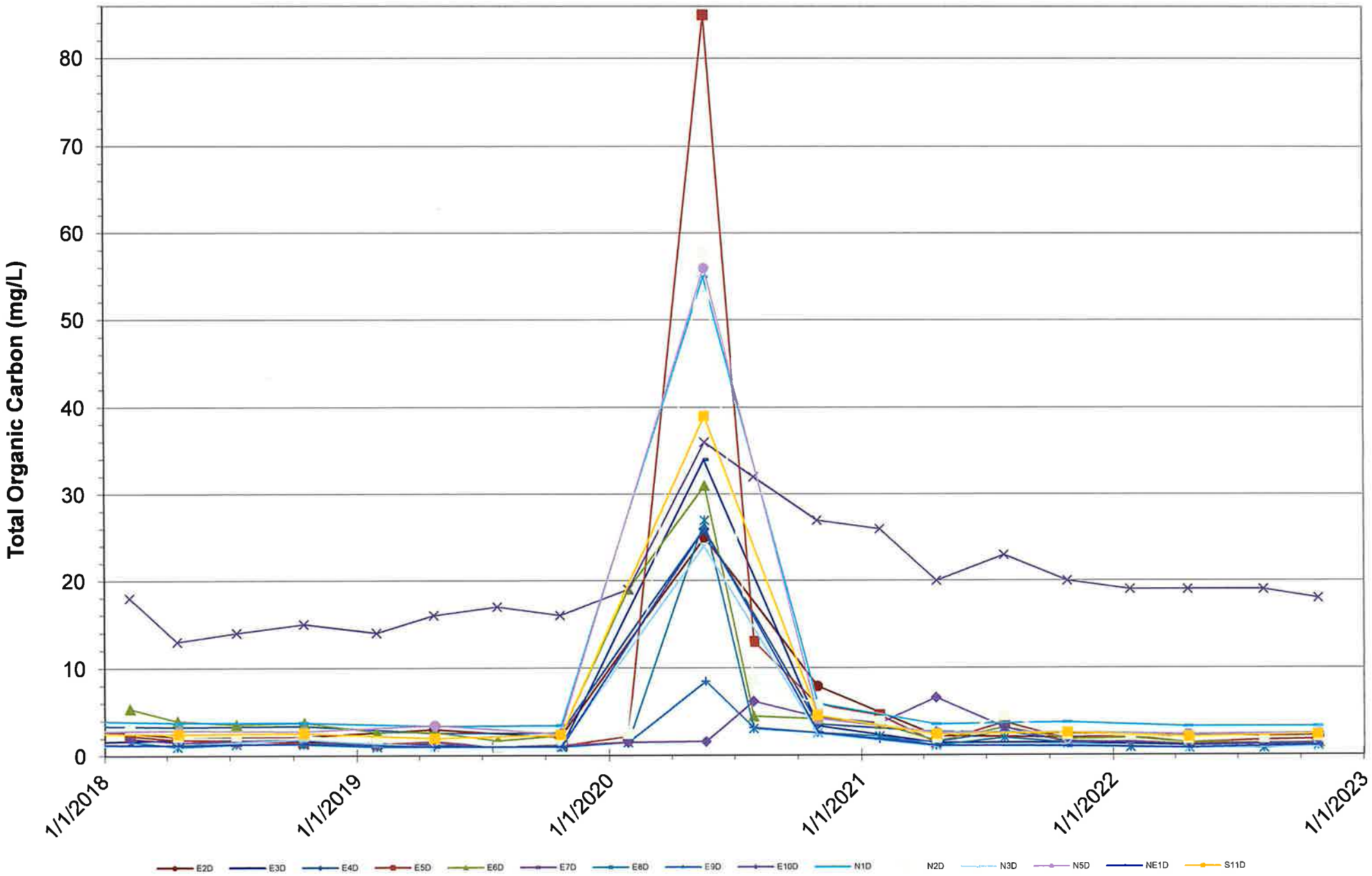


Table C25 - Total Organic Carbon Time Series - Water Supply Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

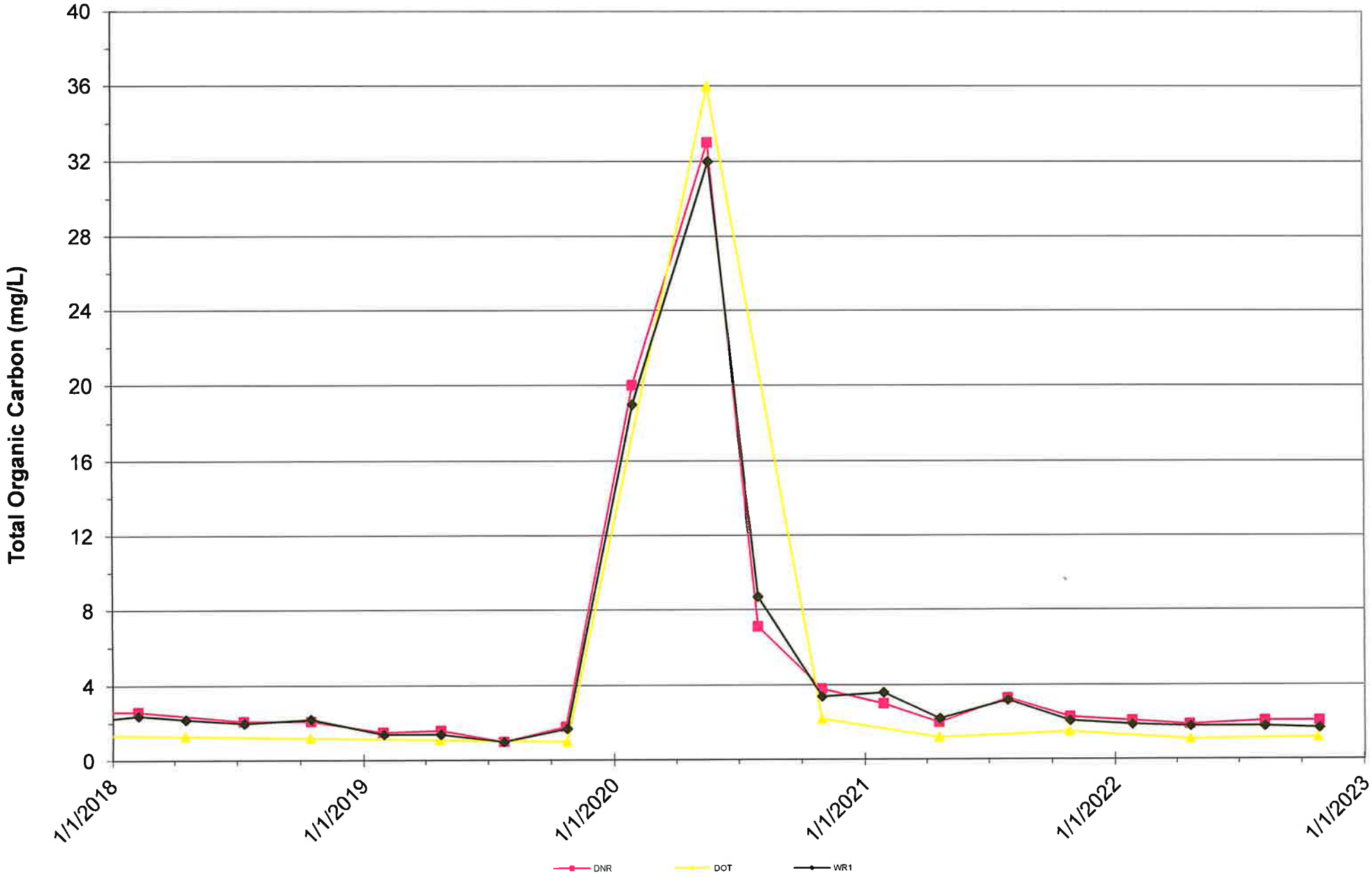


Table C26 - Barium Time Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

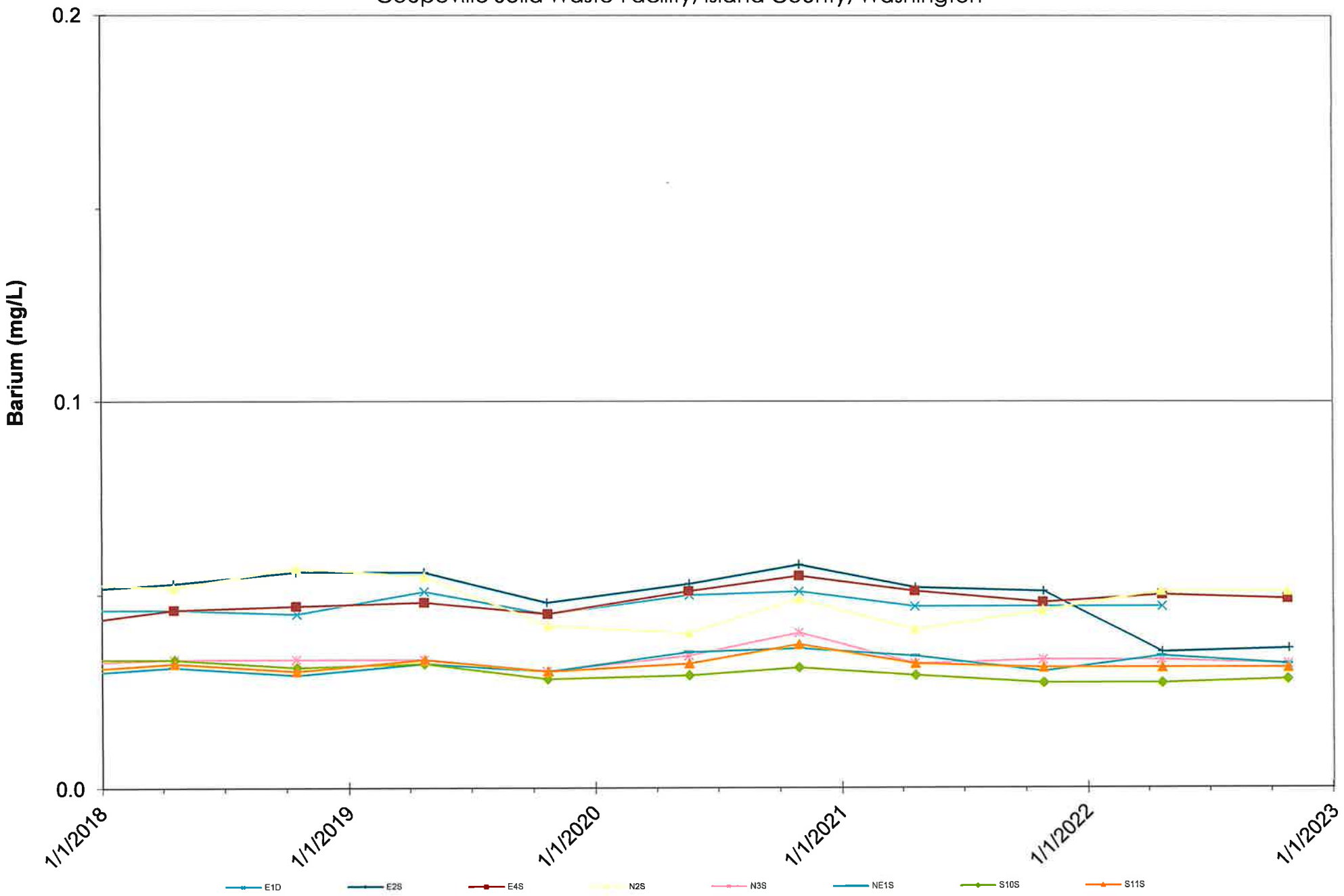


Table C27 - Barium Time Series - Aquifer 2
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

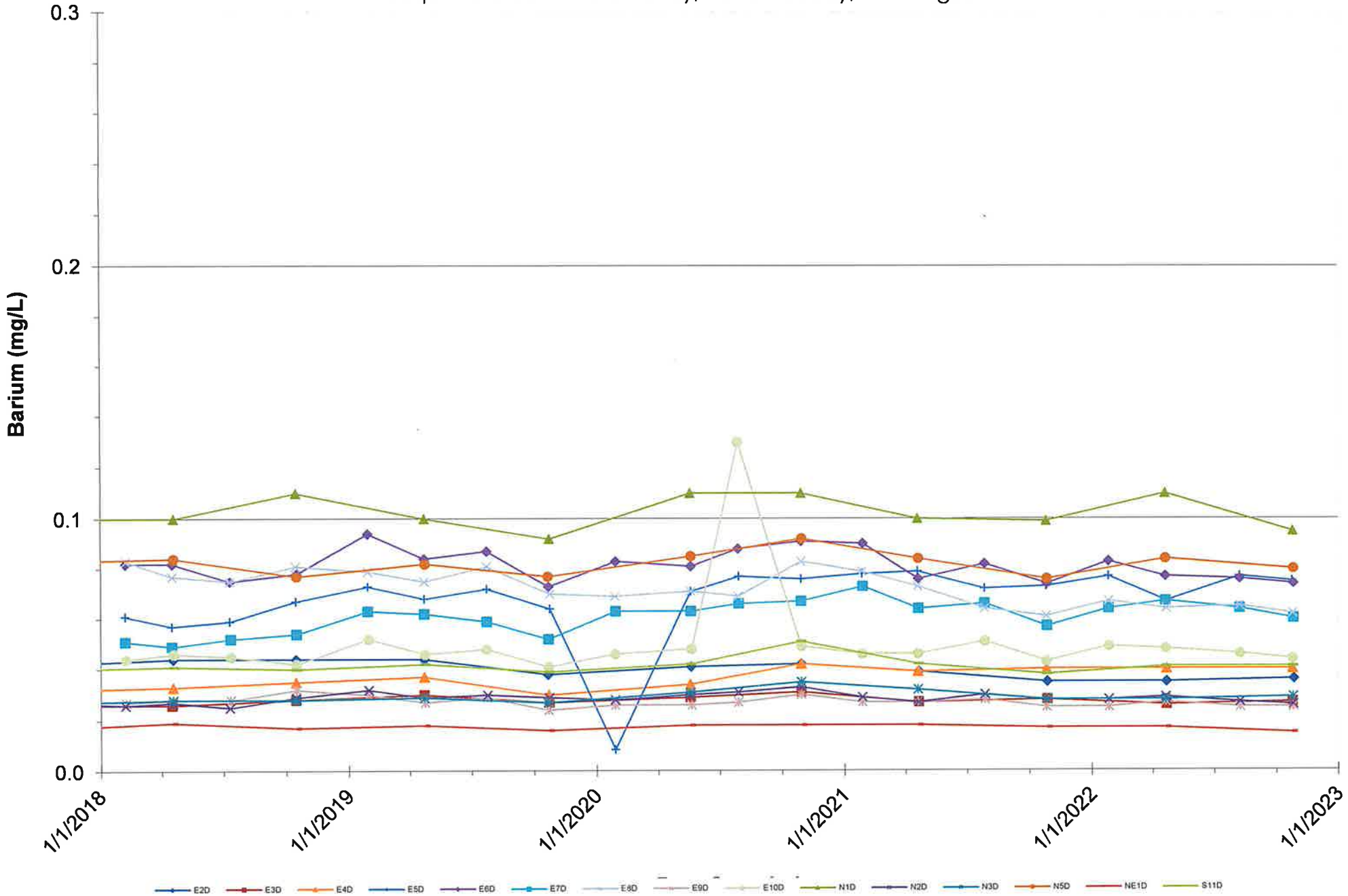


Table C28 - Barium Time Series - Pumping Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

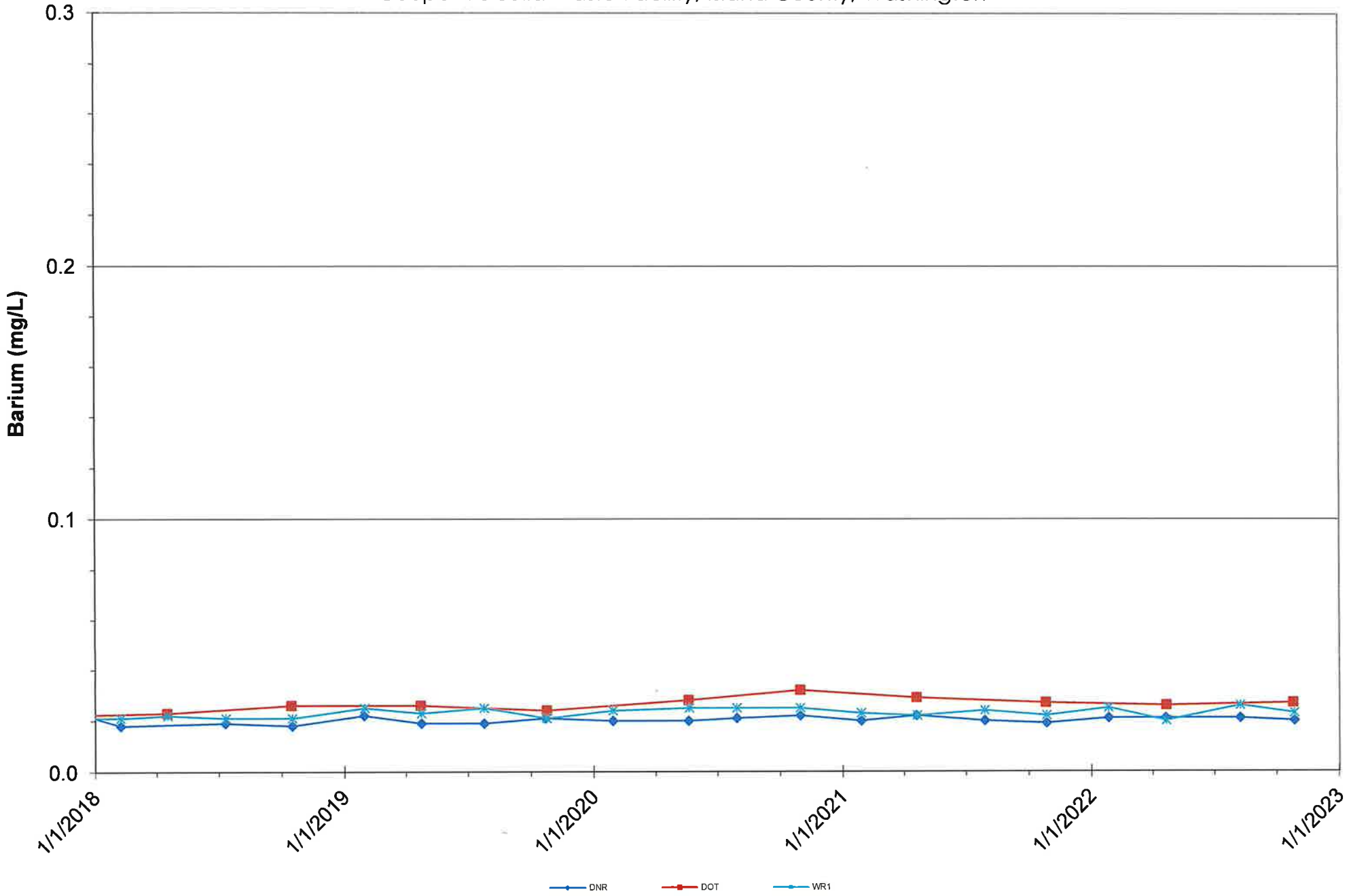


Table C29 - 1,1-Dichloroethane Time Series
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

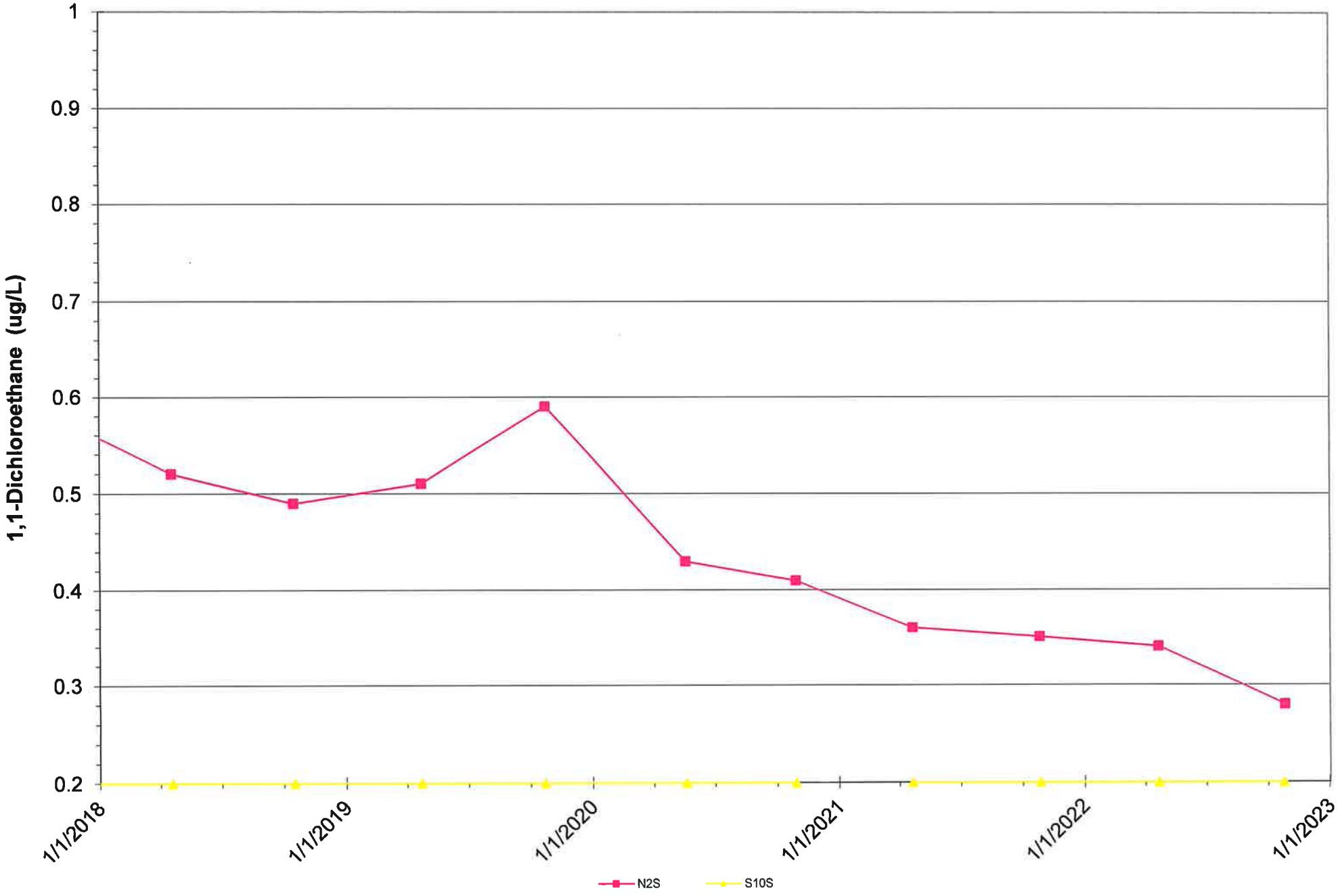


Table C30 - Methylene Chloride Time Series
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

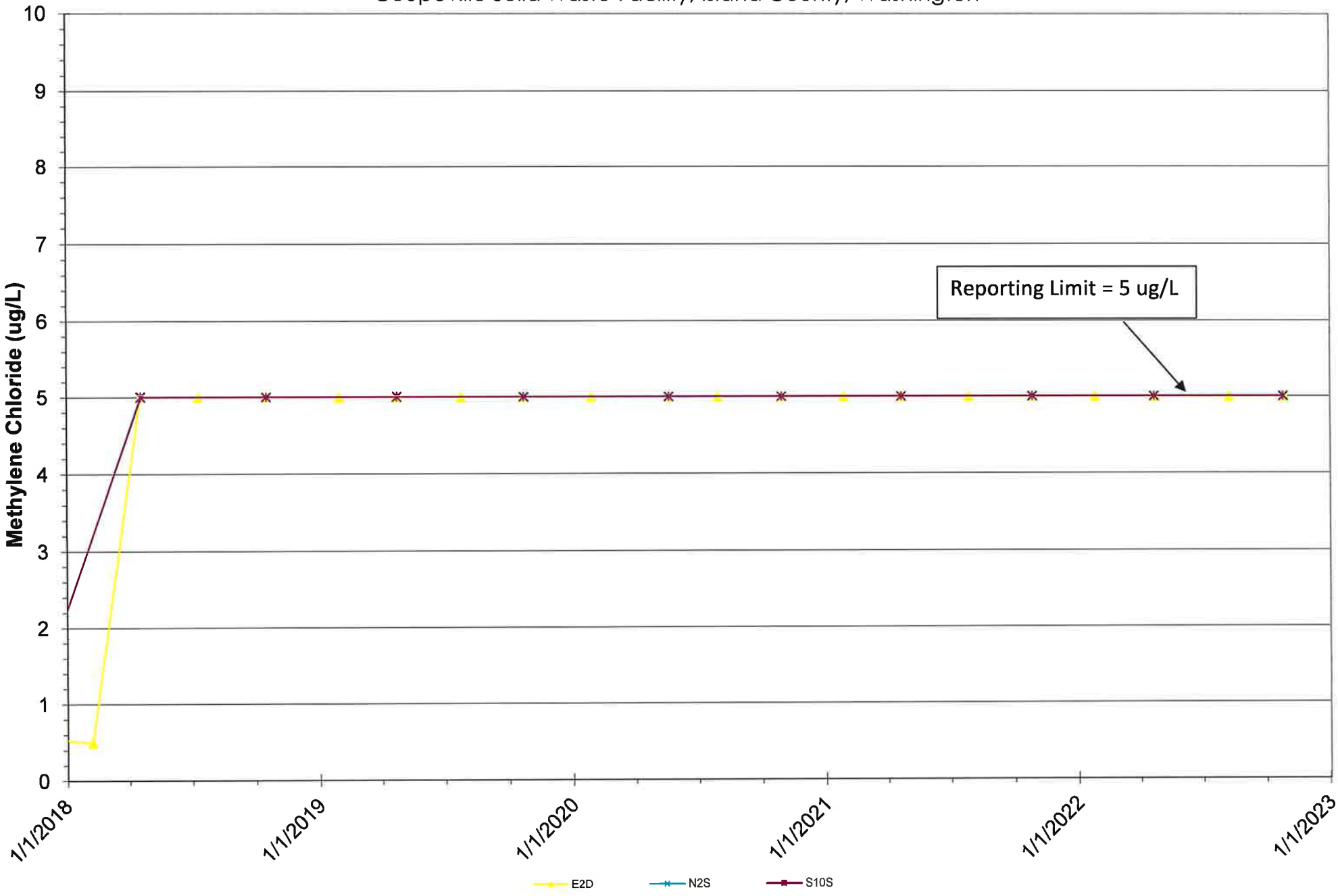


Table C31 - Vinyl ChlorideTime Series - Aquifer 1
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

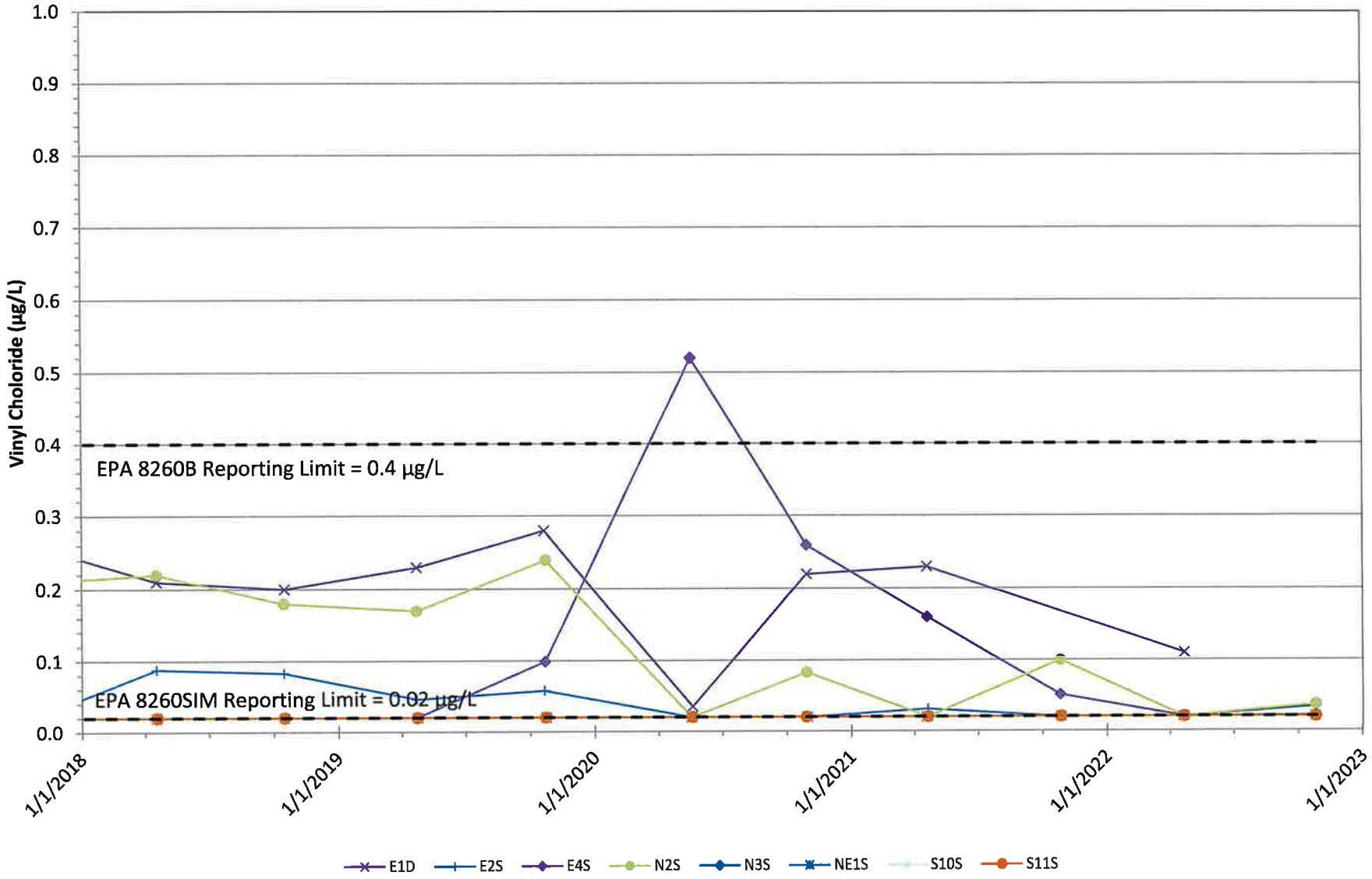


Table C32 - Vinyl ChlorideTime Series - Aquifer 2 (High Range)
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

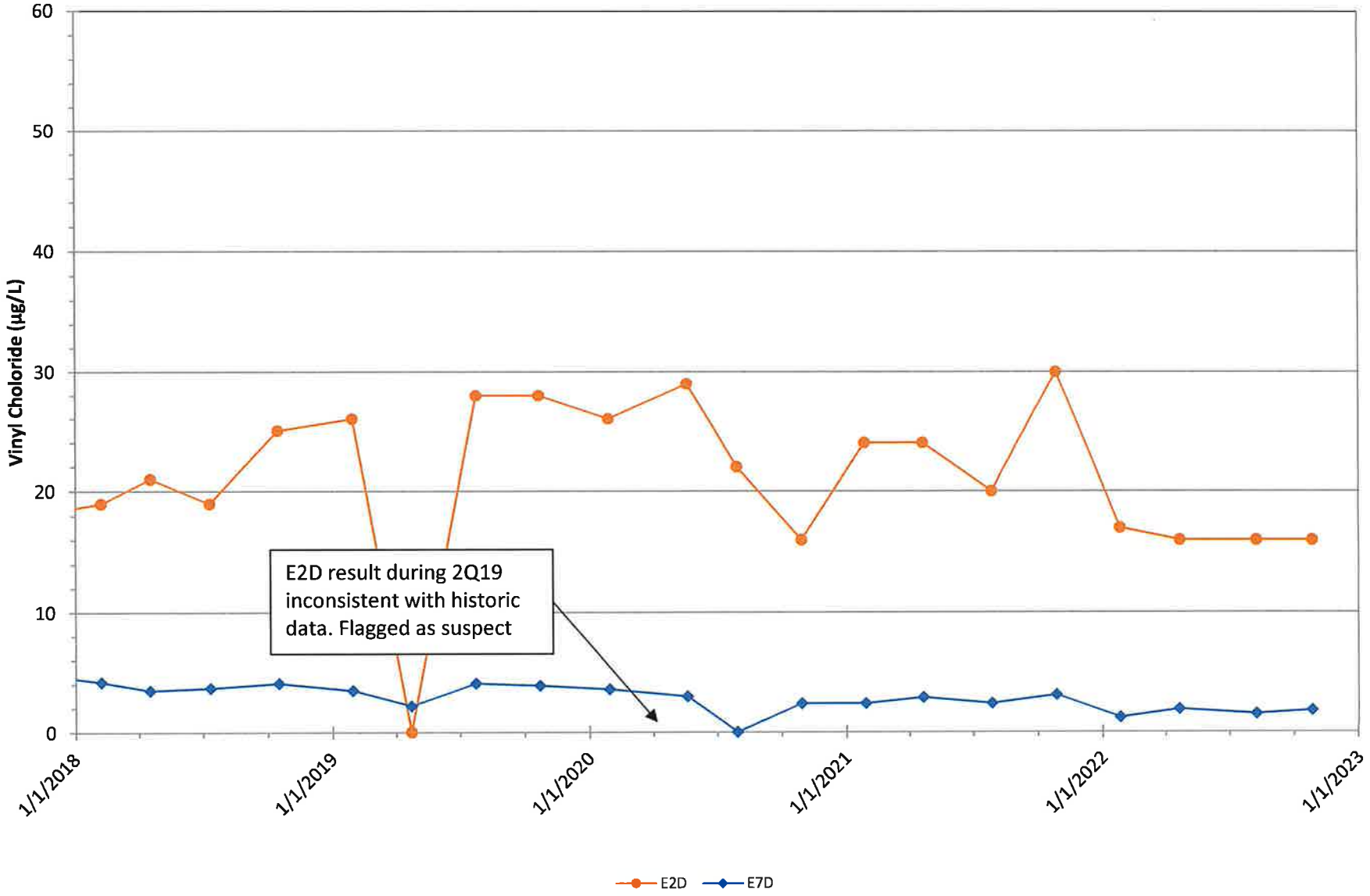


Table C33 - Vinyl ChlorideTime Series - Aquifer 2 (Low Range)
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

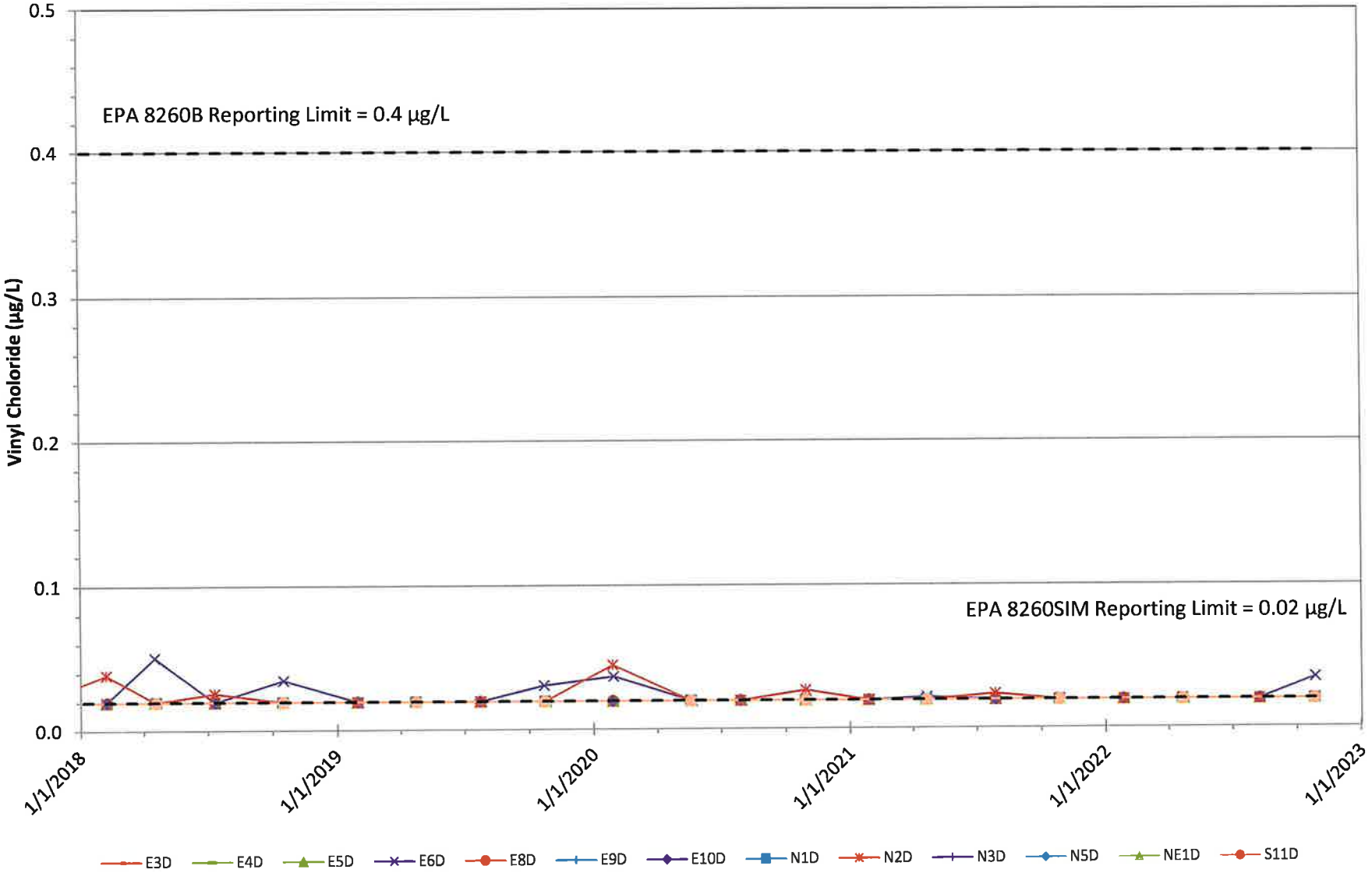
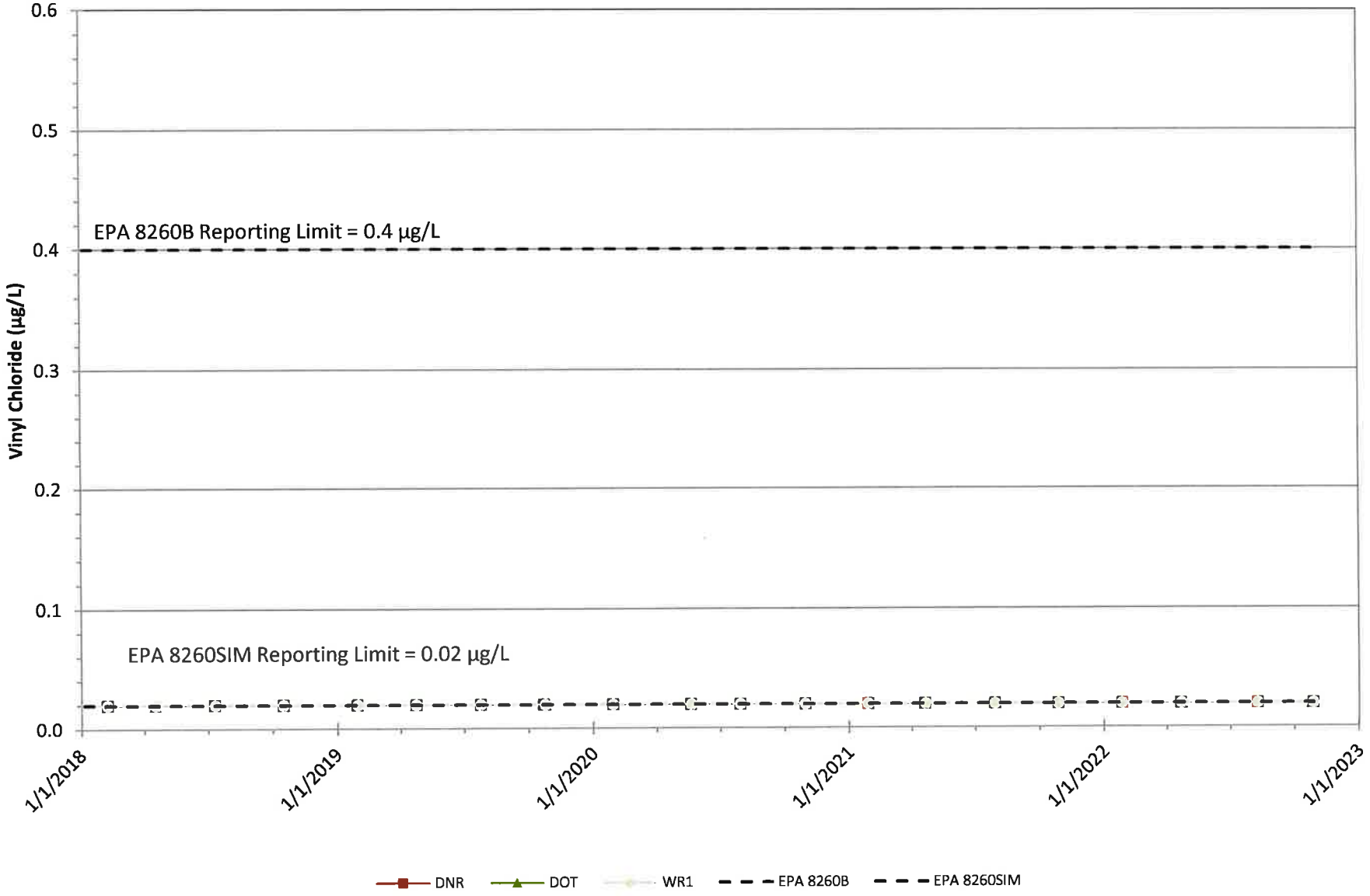


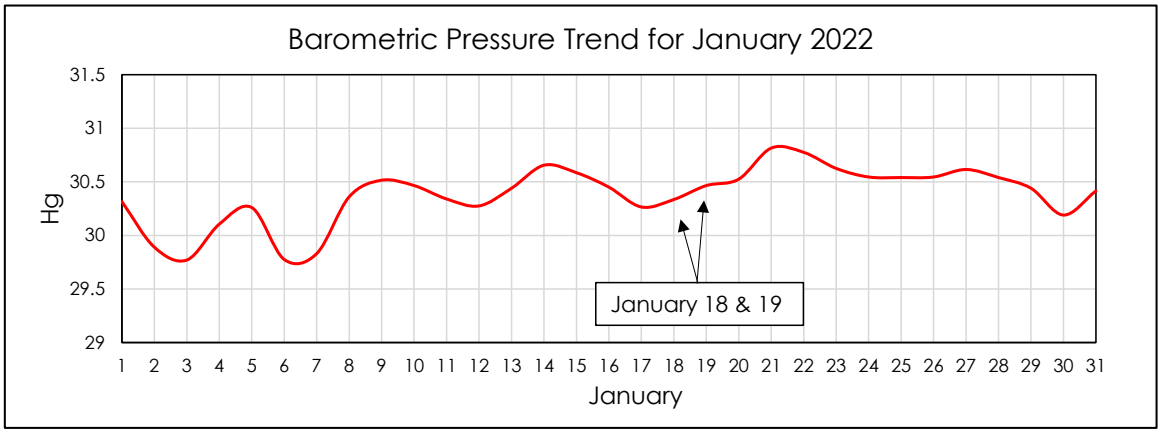
Table C34 - Vinyl ChlorideTime Series - Pumping Wells
2022 Annual Monitoring Report
Coupeville Solid Waste Facility, Island County, Washington

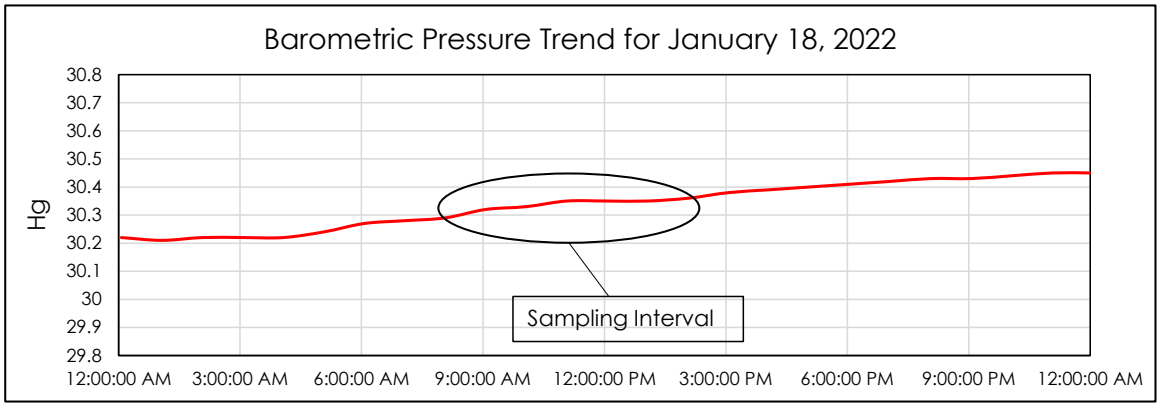


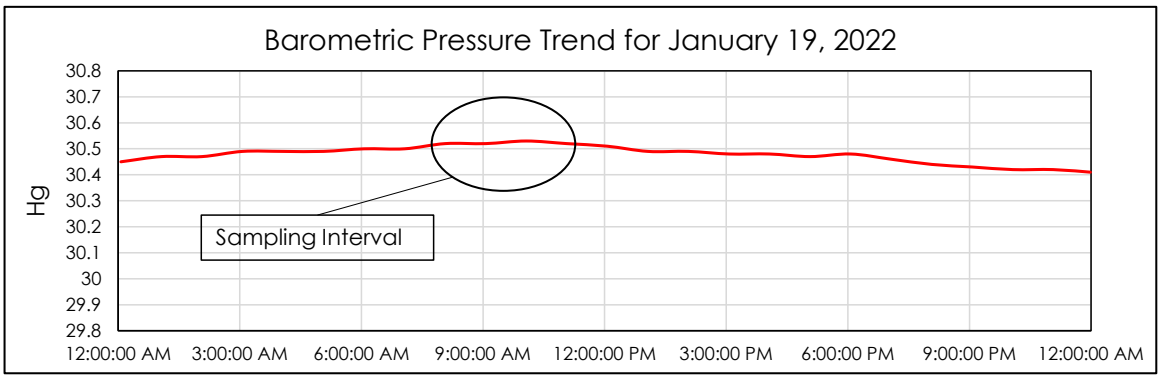
Appendix D

2022 Barometric Pressure Data

Figure D-1. Barometric Pressure Trends - January 2022
First Quarter 2022 Data Review
Coupeville Solid Waste Facility, Island County, Washington



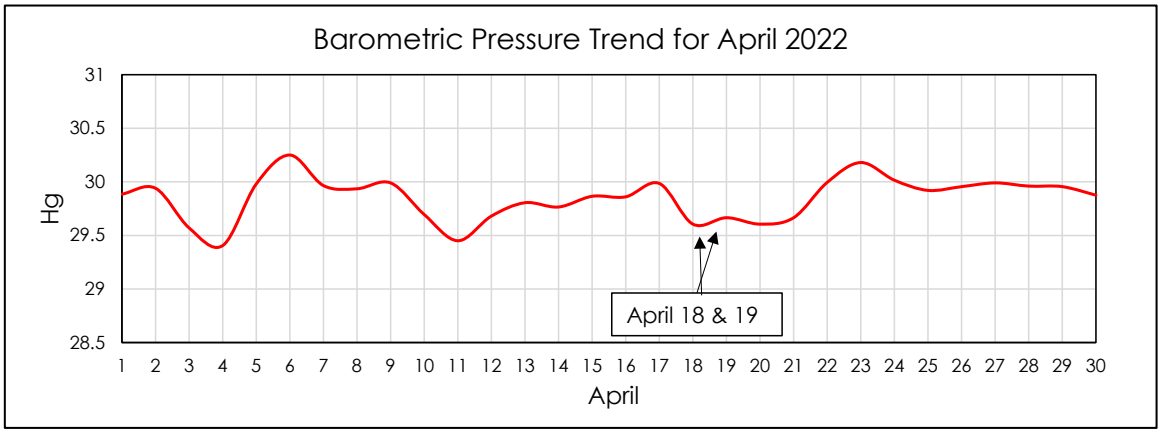


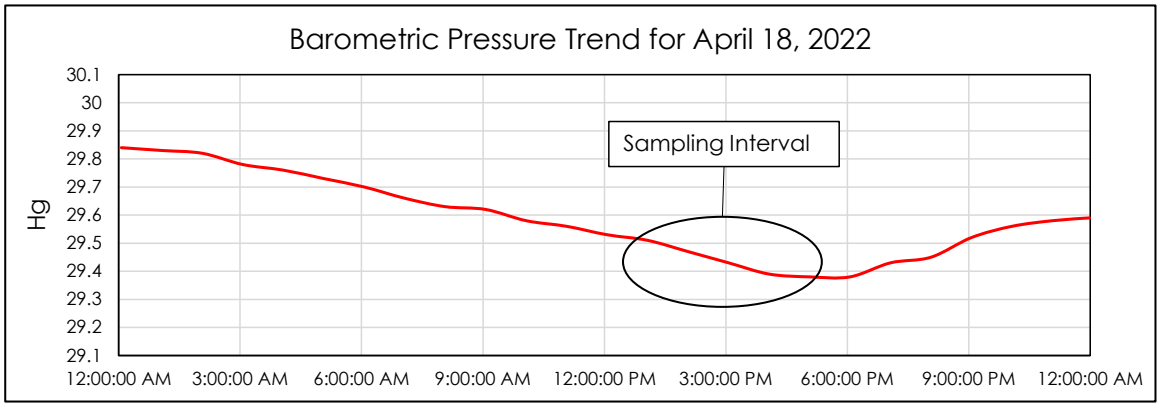


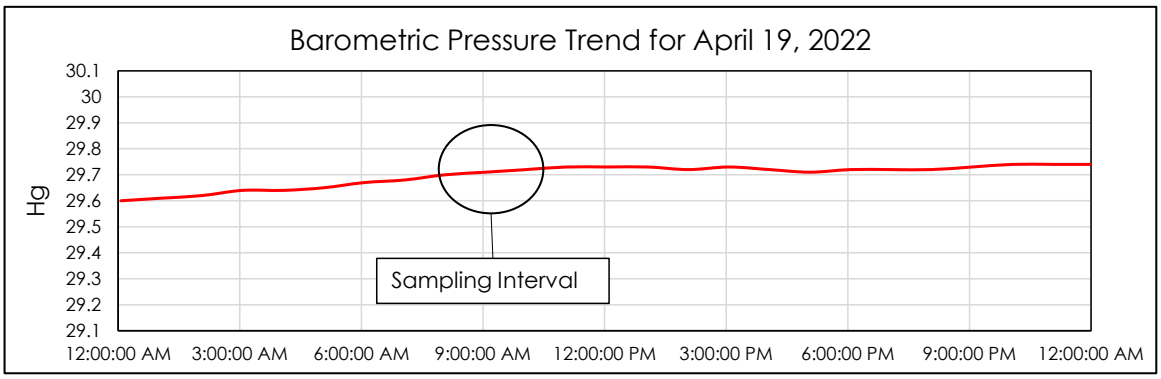
Source: Coupeville, WA - Wunderground
Lat: 48.22 Long: 122.68 Elev: 138 ft-AMSL

Data Sources: https://www.wunderground.com/dashboard/pws/KWACOUPE31/table/2022-01-19/2022-01-19/monthly

Figure D-2. Barometric Pressure Trends - April 2022
Second Quarter 2022 Data Review
Coupeville Solid Waste Facility, Island County, Washington



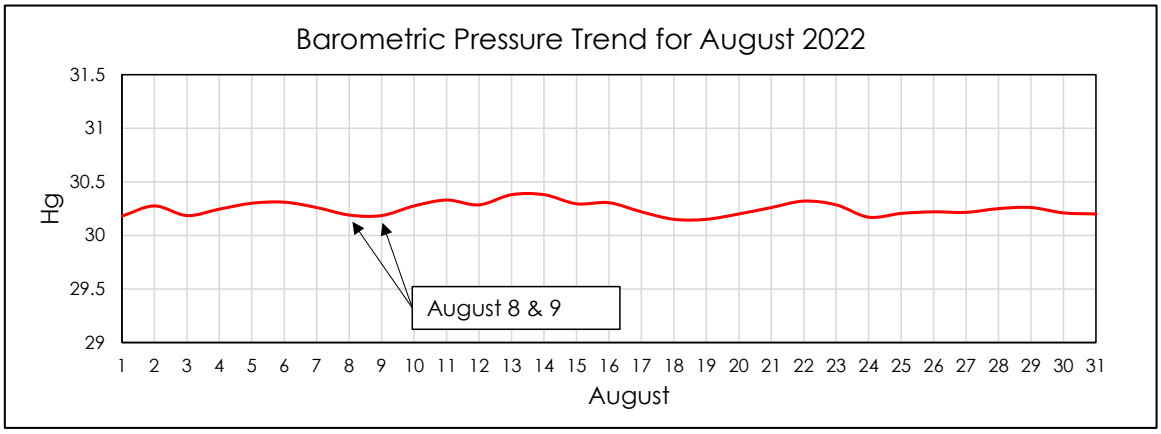


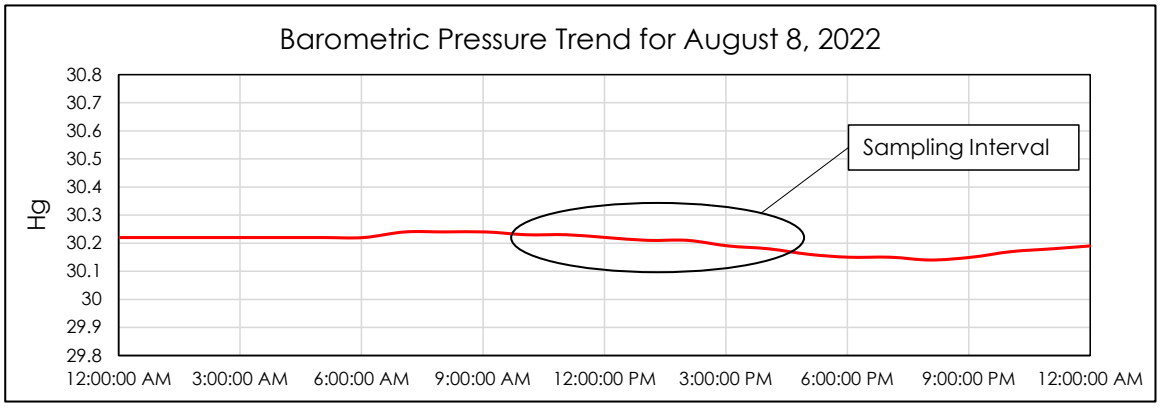


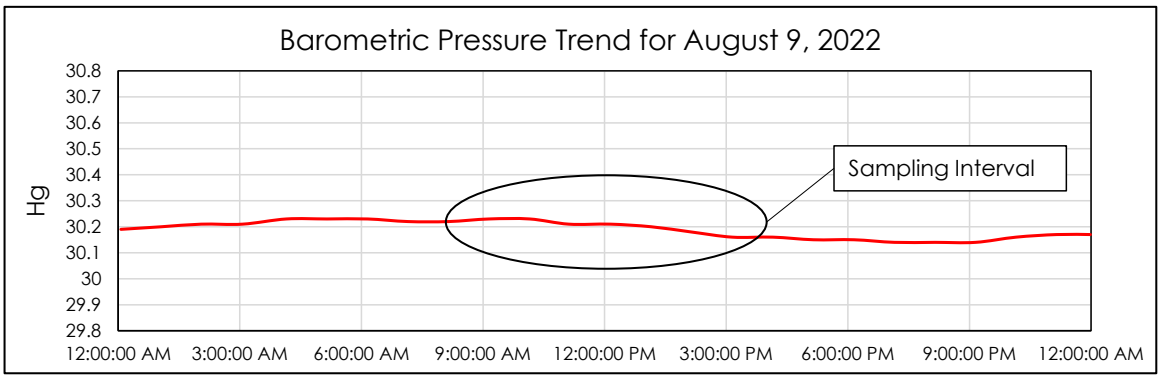
Source: Coupeville, WA - Wunderground
Lat: 48.22 Long: 122.68 Elev: 138 ft-AMSL

Data Sources: https://www.wunderground.com/dashboard/pws/KWAOAKHA214/table/2022-04-18/2022-04-18/daily

Figure D-3. Barometric Pressure Trends - August 2022
Third Quarter 2022 Data Review
Coupeville Solid Waste Facility, Island County, Washington



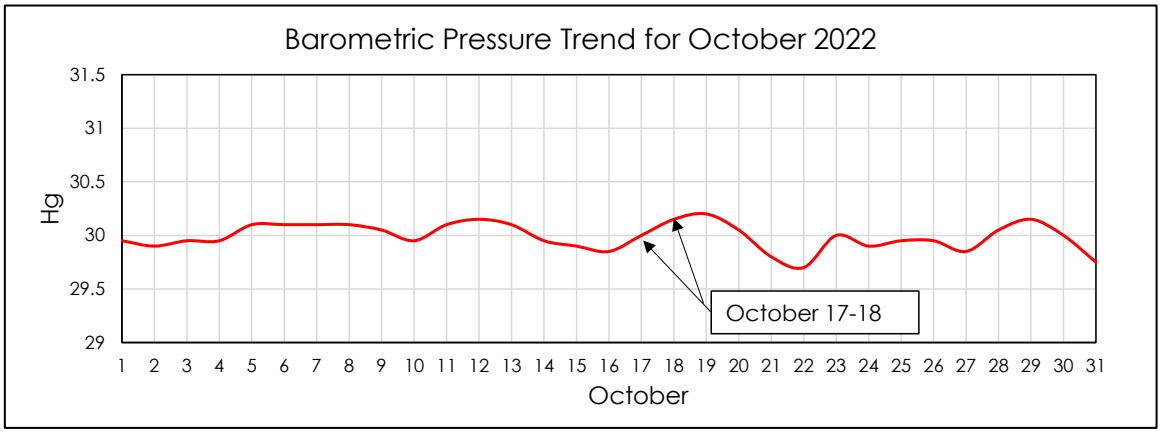


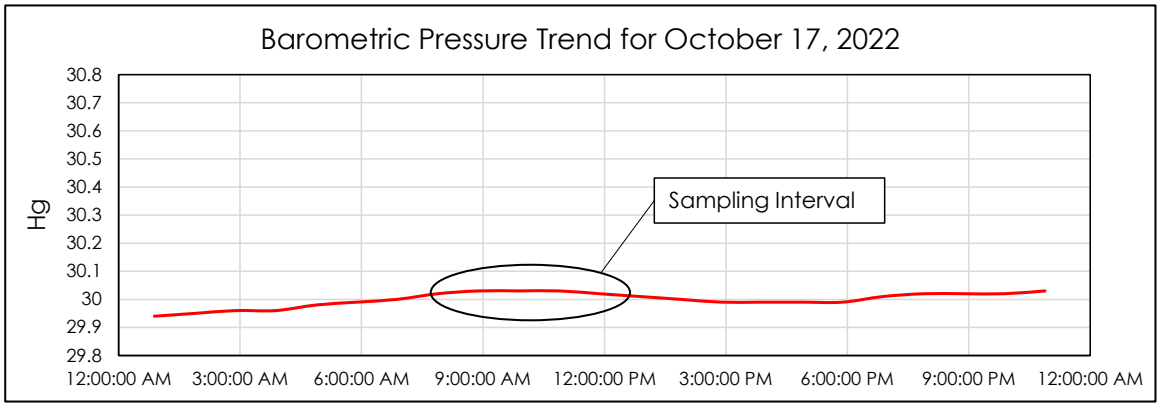


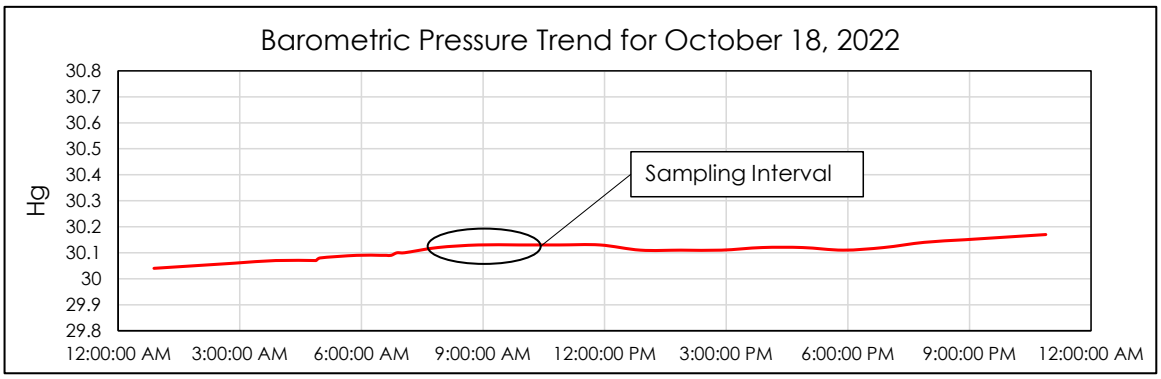
Source: Coupeville, WA - Wunderground
Lat: 48.22 Long: 122.68 Elev: 138 ft-AMSL

Data Sources:
https://www.wunderground.com/dashboard/pws/KWACOUPE31/table/2022-08-9/2022-08-9/monthly

Figure D-4. Barometric Pressure Trends - October 2022
Fourth Quarter 2022 Data Review
Coupeville Solid Waste Facility, Island County, Washington







Source: Coupeville, WA - Wunderground
Lat: 48.22 Long: 122.68 Elev: 138 ft-AMSL

Data Sources:
https://www.wunderground.com/dashboard/pws/KWACOUPE31/table/2022-10-17/2022-10-18/monthly