



## LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

5885 Pruitt Avenue  
Windsor, California

Prepared for:  
Zero Waste Sonoma  
2300 County Center Drive, Suite B-100  
Santa Rosa, CA 95403

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Project No. 631024124

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## 1.0 INTRODUCTION

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### 1.1 Site Description

The property subject to this Phase II Environmental Site Assessment (ESA) is located at 5865-5897 Pruitt Avenue, Windsor, California (hereinafter referred to as the “Site”). The Site is 4.1 acres according to the Sonoma County Parcel Viewer. The Site is improved with three buildings. Buildings 1 and 2 are one story wood-frame buildings and Building 3 is a two-story wood-frame building. Building 1, 5885 Pruitt Avenue, is occupied by two current tenants: Elite Concrete, and BKW Concrete, Inc. for office space use. Building 2 is used for offices, a warehouse, and shop space by Restoration Construction Abatement (RCA). Building 3 is used for offices by RCA. Both Buildings 2 and 3 are addressed as 5895 Pruitt Avenue. The parcel containing the Site is identified with an address range of 5865 – 5897 Pruitt Avenue according to the Sonoma County Parcel Viewer. The remainder of the Site is comprised of parking and drive areas and associated landscaping. Additionally, Pruitt Creek flows parallel to the northern property boundary from southeast to northwest through the Site. Pruitt Creek appears to have been filled and redirected to its present location to facilitate construction of Building 2 between 1973 and 1983, according to APTIM’s review of historic aerial photographs of the Site. Building 2 is located on top of the former creek location. A bridge that crosses Pruitt Creek is located in the far northwestern corner of the Site.

The Site is presently used for commercial and light-industrial purposes. A small paint-spray booth and a wood-working shop are present in Building 2. Based on the observed conditions, no significant staining was noted in these areas and neither the paint-spray booth nor the wood-working shop were considered significant environmental concerns. The Site location is depicted on **Figure 1**.

### 1.2 Recognized Environmental Conditions

APTIM performed a Phase I Environmental Site Assessment (ESA) at the Site that was memorialized in a report dated April 6, 2023. The Phase I ESA Report identified the following recognized environmental conditions (RECs):

- The presence of fill material in the former Pruitt Creek channel on the subject property from an unknown source meets the American Society for Testing Materials (ASTM) definition of a REC on the subject property.
- The Ecodyne Tower Site is engaged in active monitoring of hexavalent chromium in groundwater. Since the site is located in proximity to the subject property and groundwater flow direction has historically fluctuated to the northeast in the direction of the subject property, the Ecodyne Tower Site meets the ASTM definition of a REC on the subject property.



- Since the Shiloh Group Property is an active site cleanup program with identified operable units along the eastern boundary of the property, remediation activities on the Shiloh Group Property meet the ASTM definition of a REC on the subject property.

Approximate locations of these RECs are identified in the attached **Figure 2**.

APTIM was contracted by Zero Waste Sonoma (the Client) to conduct a Limited Phase II ESA, including collection of soil and groundwater samples for laboratory analysis and comparison to applicable Environmental Screening Levels (ESLs) by the San Francisco Bay Regional Water Quality Control Board as well as the US EPA Regional Screening Levels (RSLs). APTIM recommended collection of soil and groundwater samples at locations of the Site that were best suited to assess the reported RECs.

APTIM received authorization to proceed with the scope of work via the Agreement for Professional Services dated July 25, 2023 for Limited Phase II Environmental Site Assessment.

## 2.0 LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

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The Limited Phase II ESA was performed in accordance with the APTIM proposal dated April 19, 2023. The purpose of the subsurface investigation was to evaluate potential environmental impacts resulting from the RECs identified during the Phase I ESA and to gain a present understanding of soil and groundwater conditions at the Site. The following sections provide discussions of the methodologies and results of the investigation. APTIM has included a Photographic Documentation Log of the Limited Phase II ESA in **Appendix A**.

### 2.1 Statement of Quality Assurance

APTIM personnel arranged and directed the field investigation activities. Sampling procedures were performed according to standards set forth by the United States Environmental Protection Agency (US EPA) and the ASTM. Field measurements were taken using tape measures, GPS instrumentation, and other calibrated field instrumentation. Laboratory analyses were completed by a qualified environmental laboratory using quality control criteria equivalent to US EPA and/or laboratory specifications. APTIM attests that the information, data, and resulting decisions contained herein are technically sound, statistically valid, and properly documented.

APTIM retained Pace Analytical of Bakersfield, California as the primary contract environmental laboratory for this project.

Data collection activities were performed by APTIM professionals and subcontractors who are trained in accordance with Occupational Safety and Health Administration (OSHA) standard 29 CFR 1910.120, *Hazardous Operation and Emergency Response Guidelines*. Individuals involved with these activities were required to conform to a *Site-Specific Health and Safety Plan* prepared by APTIM.

Soil boring locations are shown on **Figure 3**. The sampling locations were strategically placed within the former creek channel (SB-1 and SB-2) and west and southern property boundaries (SB-3 to SB-5) to assess if the RECs identified in the Phase I ESA Report have impacted the subsurface soil and groundwater.

### 2.2 Limitations

The investigation was performed in accordance with currently accepted engineering practices and principles. APTIM performed this Limited Phase II ESA in a professional manner using the degree of skill and care required for similar conditions by reputable and competent environmental consultants. Nonetheless, several major qualifications are inherent in the conduct of this or any other environmental assessment, including:

- The possibility that sources of future environmental liability have yet to manifest themselves to the point where they are reasonably identifiable through external and limited physical investigation, such as was conducted in this case;
- The results of APTIM's investigation represent the application of a variety of engineering disciplines to material facts and conditions associated with the Site. It should be recognized that, over time, the facts and conditions reported are subject to change; and,
- APTIM's conclusions are limited by the fact that boreholes were drilled as presented in **Figure 3**, and the investigation was limited to those analytical parameters specifically outlined in this report. The subsurface investigation was based on the specific borehole locations drilled and conditions may vary between boreholes.

APTIM shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time APTIM performed the ESA. Although APTIM believes the information contained herein is reliable, the accuracy or completeness of the information provided to APTIM by others cannot be guaranteed. APTIM prepared this report solely for the benefit of the Client. Use of or reliance upon this report by a third party other than the Client shall be solely at the risk of any such third party and without legal recourse against APTIM, its subsidiaries and affiliates, or their respective employees, officers, or directors, regardless of whether the action in which recovery of damages is sought is based upon contract, tort (including the sole, concurrent, or other negligence and strict liability to APTIM, statute or otherwise).

## 2.3 Field Methodologies and Sample Collection Procedures

### 2.3.1 Permitting and Underground Utility Locate

APTIM obtained Permit No. SR1000217 Sonoma County Department of Health Services for an Environmental Assessment prior to the field activities.

Prior to Site mobilization, public utilities were located through the public utility locator service, Call 811. APTIM additionally subcontracted GPRS, Inc. to perform private underground utility location services to locate unmarked underground utilities prior to advancement of all soil borings.

### 2.3.2 Soil Borings

APTIM directed the advancement of five soil borings at the Site on September 18, 2023. The boring locations were probed for utility clearance purposes from ground surface to 5 feet below grade, then advanced to depths ranging from 10-25 feet below ground surface (bgs) by utilizing a portable track-mounted GeoProbe™ 3126GT direct-push unit. Soil samples were obtained using 2-inch diameter by 48-inch long MacroCore™ samplers with polyethylene

terephthalate glycol (PETG) liner inserts, in accordance with ASTM D 6282. Each boring was continuously sampled in 5-foot intervals. Borings were later backfilled with lean concrete via tremie method in accordance with the permit requirements and the surface was restored to match pre-investigation conditions.

An APTIM licensed professional geologist was on-Site to oversee the drilling operations. The geologist was responsible for characterizing the soils encountered, preserving representative samples, and maintaining field documentation. Each boring was logged on a standardized form in accordance with the *Unified Soil Classification System*, ASTM D 2487. Copies of the soil boring logs are attached in **Appendix B**. The locations of the soil borings are depicted on **Figure 3**.

### 2.3.3 Equipment Decontamination

Down-hole drilling and sampling equipment was decontaminated prior to use at the Site and between sampling locations. The purpose of decontamination is to prevent cross-contamination between sampling locations and sample intervals. Decontamination consisted of washing the equipment with a scrub brush in a solution of potable water and a non-phosphate detergent. Washed equipment was rinsed with distilled water.

### 2.3.4 Field Screening

The APTIM field scientist used a photoionization detector (PID), equipped with a 10.6 electron-volt lamp, to screen the soil samples as they were collected. A PID is a non-specific trace gas analyzer capable of detecting volatile organic compound (VOC) emissions in parts per million (ppm) concentrations. The PID was calibrated daily in accordance with the manufacturer's specifications. The PID screening results were noted on the soil boring logs in **Appendix B**. The PID results are generally used by the APTIM geologist to assist in the selection of samples to be submitted to the contract environmental laboratory for chemical analyses.

### 2.3.5 Soil Sample Preservation

With the exception of soil samples that were preserved for chemical analysis of VOCs, representative soil samples from each sampling interval were collected, in appropriate-sized, sterile glass containers with twist-on, Teflon-lined lids, as supplied by the contract environmental laboratory. Samples that were submitted for analysis of VOCs were preserved in the field in accordance with SW-846 Method 5035, using samplers as supplied by the contract environmental laboratory. Immediately after filling, labeling, and sealing the sample containers, they were placed into a cooler, on ice, for the duration of the daily field activities. The samples were maintained on ice until relinquished to the shipping facility at the earliest opportunity.



One soil sample was collected from each boring location and properly preserved for potential laboratory chemical analysis. Sample intervals were determined based on the REC being assessed, material observation, or field screening results. Soil samples were collected at a depth of 4 feet bgs in borings SB-1, SB-3, SB-4 and SB-5 and at a depth of 7 feet bgs in boring SB-2. The shallow soil sample from each borehole was selected for laboratory analysis of select contaminants of concern. Each collected soil sample was submitted to the sub-contracted laboratory under standard chain-of-custody procedures.

### **2.3.6 Groundwater Sampling Methodologies**

APTIM converted the three soil borings along the site perimeter, SB-3 to SB-5, into temporary groundwater monitoring wells. Pre-packed wells were installed with  $\frac{3}{4}$ " Polyvinyl Chloride (PVC) riser and 10 feet of screen at depths of 15 to 25 feet bgs. Groundwater samples were collected utilizing low-flow techniques with a peristaltic pump. The wells were purged prior to sampling until either three volumes of water had been removed, or the well went dry.

Immediately after filling, labeling, and sealing the sample containers, they were placed into a cooler on ice for the duration of the daily field activities. The samples were maintained on ice until relinquished to the contract shipping facility at the earliest opportunity.

### **2.3.7 Sample Identification**

Each soil and groundwater sample was identified relative to the soil boring location from where the sample was collected. For example:

- "SB-1-4" identifies a soil sample obtained from soil boring SB-1, from a depth of 4 feet bgs.
- The groundwater samples were named according to which boring/temporary well they were collected from, and do not have a depth indicated ("SB-3-W").

Sample containers were also labeled with information identifying the date and time of sample collection, and the initials of the APTIM scientist responsible for sample collection.

## **2.4 Laboratory Analysis Program**

The soil and groundwater samples obtained during the Limited Phase II ESA were analyzed for the following:

SB-1 to SB-2 – REC consisted of former creek channel being filled with an unknown source

- VOCs via US EPA Method 8260B
- SVOCs via US EPA Method 8270
- RCRA 8 Metals via US EPA Method 6010/7471

SB-3 to SB-5 - REC consisted of off-site impact source identification

- VOCs via US EPA Method 8260B
- SVOCs via US EPA Method 8270
- RCRA 8 Metals via US EPA Method 6010/7471 – including hexavalent chromium

The analytical constituents above were based on a review of the prior regulatory reports for the Ecodyne Tower Site and Shiloh Group. The Ecodyne Tower Site is currently monitoring for hexavalent chromium in groundwater. Based on the development of operational units (OUs) on the Shiloh Group Property by the Department of Toxic Substance Control (DTSC), the contaminants of concern (COCs) included Polynuclear Aromatic Hydrocarbons (PAHs), penachlorophenol, perchloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC).

Soil and groundwater laboratory analyses were performed at the contract environmental laboratory in accordance with methodologies specified in the latest edition of the US EPA Publication Number SW-846, *Test Methods for Evaluating Soil Waste, Physical/Chemical Methods*. The soil sample laboratory analytical results are summarized in **Table 1** and the groundwater sample laboratory analytical results are summarized in **Table 2**. Copies of the complete laboratory analytical reports are included in **Appendix C**.

### 3.0 SUBSURFACE INVESTIGATION RESULTS

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#### 3.1 Site Geology & Groundwater Conditions

The elevation of the Site is approximately 118-131 feet above mean sea level, being higher in the center. Groundwater was encountered in each soil boring location where temporary monitoring wells were installed during the investigation. Field measured depth to water measurements ranged from 14 to 17 feet bgs.

The Site surface is comprised of one to two feet of compacted gravel. Below the gravel, clays predominated in the uppermost soils at borings SB-1 to SB-3. Clayey sand was found below a depth of 11 feet in SB-3. Borings SB-4 and SB-5 consisted of a mixture or combination of silt, clayey sand, sand, and clay. Detailed descriptions of the soils encountered at each boring location can be found in the soil boring logs, provided in **Appendix B**.

#### 3.2 Remedial Objective Evaluation

APTIM compared the soil and groundwater laboratory results to the applicable Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board and the Regional Screening Levels (RSLs) established by the US EPA Region 9.

##### 3.2.1 Soil Sample Analytical Results

APTIM submitted five soil samples for laboratory analyses of VOCS, SVOCs and Metals.

The evaluation of soil laboratory results included comparison to commercial/industrial, construction worker, terrestrial habitat, leaching to groundwater, gross contamination, and odor nuisance ESLs as well as industrial soil and protection of groundwater RSLs. The soil sample laboratory analytical results are summarized on **Table 1**. A copy of the laboratory analytical report is included in **Appendix C**.

VOCS in Soil:

- VOC constituents in soil were not reported at concentrations exceeding current ESLs or RSLs.

SVOCs in Soil:

- SVOC constituents in soil were not reported at concentrations exceeding current ESLs or RSLs.

### Metals in Soil:

- Arsenic was reported at concentrations ranging from 3.1 to 5.4 milligrams per kilogram (mg/kg) in the collected soil samples, exceeding the followings ESLs: Com/Ind cancer risk ESL (0.31 mg/kg), Com/Ind Non-cancer (NC) Hazard ESL (3.63 mg/kg), Construction Worker Cancer Risk ESL (2.03 mg/kg) and/or Construction Worker NC Hazard ESL (0.98 mg/kg). The arsenic concentrations also exceeded the following RSLs: Industrial Soil (3 mg/kg), Risk-Based SSL (0.0015 mg/kg) and MCL-Based SSL (0.29 mg/kg).
- Barium was reported at concentrations ranging from 83 to 410 mg/kg in each of the soil samples, which exceeded the Risk-Based SSL (160 mg/kg) and/or MCL-Based SSL (82 mg/kg) RSLs.
- Hexavalent Chromium was reported at concentrations ranging from 0.64 to 1.2 mg/kg at soil sample locations SB-3, SB-4 and SB-5, which exceeded the Risk-Based SSL RSL of 0.00067 mg/kg.
- Mercury was reported at concentrations ranging from 0.03 to 0.1 mg/kg at locations SB-1, SB-2 and SB-3, which exceeded the Risk-Based SSL (0.033 mg/kg) and MCL-Based SSL (0.1 mg/kg) RSLs.

### 3.2.2 Groundwater Sample Analytical Results

APTIM submitted three groundwater samples from temporary wells located along the western and southern property boundaries during the Limited Phase II ESA. Groundwater samples were analyzed for VOCS, SVOCs and total metal concentrations.

The evaluation of groundwater laboratory results included comparison to direct exposure human health risk, aquatic habitat goal levels, groundwater vapor levels for commercial/industrial properties, gross contamination levels, and odor nuisance levels ESLs, as well as tapwater and maximum contaminant level RSLs. The laboratory analytical results are summarized on **Table 2**. A copy of the laboratory analytical reports is included in **Appendix C**.

### VOCs in Groundwater:

- Naphthalene was detected at a concentration of 0.5 ug/L in sample SB-3-W, which exceeded the Tapwater Cancer Risk ESL of 0.17 ug/L.

SVOCs in Groundwater:

- Diethyl Phthalate (DEP) was detected at concentrations ranging from 3 to 3.4 ug/L in each of the three groundwater samples, exceeding only the Fresh Water Ecotox ESL of 1.5 ug/L.

Metals in Groundwater:

- Hexavalent Chromium was detected a concentration of 0.52 ug/L in sample SB-3-W and 0.17 ug/L in sample SB-5-W. Both results exceeded the Tapwater Cancer Risk ESL of 0.02 ug/L and the Tapwater RSL of 0.035 ug/L.
- Lead was detected at a concentration of 4.9 ug/L in sample SB-3-W. The result exceeded the Tapwater Non-Cancer Risk ESL of 0.2 ug/L and the Fresh Water Ecotox ESL of 2.5 ug/L.
- Mercury was detected at concentrations of 0.16 ug/L in sample SB-4-W and 0.092 ug/L in sample SB-5-W. Both results exceeded the Tapwater Non-Cancer Risk ESL of 0.06 ug/L and the Fresh Water Ecotox ESL of 0.025 ug/L.

## 4.0 FINDINGS, OPINIONS & RECOMMENDATIONS

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Based on information obtained during the investigations, including field observations, chemical analysis of soil and groundwater samples, and APTIM's understanding of the Client's business plans for the Site, APTIM has developed the following findings, opinions, and recommendations.

### 4.1 Investigation Findings

#### REC: Potential Presence of Unknown Fill

The fill used to backfill the former Pruitt Creek channel contains arsenic, barium, and mercury at concentrations that exceed at least one of the screening levels (SLs):

- Arsenic exceeds most soil SLs, but is below the California Los Angeles Schools background study value of 6.0 mg/kg<sup>1</sup> in all soil samples collected during this Phase II ESA. Arsenic was not detected in the perimeter monitoring wells;
- Barium exceeds the soil SLs established to protect groundwater, but was not reported in groundwater samples collected from the perimeter at concentrations exceeding current SLs;
- Mercury exceeds the soil SLs established to protect groundwater. It also exceeds the freshwater ecotox (surface water standard) and ESL for tapwater but is below the MCL in each of the groundwater samples collected.

#### REC: Potential Impacts from Off-Site Contaminant Sources

APTIM collected three soil and three groundwater samples near the west and south property boundaries to assess if off-site sources of soil and groundwater impacts were migrating onto the Site:

- Arsenic, barium, and mercury were each reported in at least one perimeter soil sample at similar concentrations as discussed above;
- Hexavalent chromium was reported in each of the three soil samples at concentrations exceeding the risk-based SSL established to protect groundwater. It also exceeded the tapwater cancer risk ESL and tapwater RSL in two of the three groundwater samples analyzed. The USEPA does not publish a Maximum Contaminant Level (MCL) for hexavalent chromium. Instead, it publishes an MCL for total chromium. Each

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<sup>1</sup> California Department of Toxic Substance Control (DTSC), 2005, Final Report, Background Metals at Los Angeles Unified School Sites, Arsenic, June 6.

of the three groundwater samples was reported to contain total chromium below that MCL.

- Naphthalene was detected in one groundwater sample exceeding the tapwater cancer risk ESL. The US EPA has not established an MCL value for naphthalene;
- DEP was detected in each of the three groundwater samples exceeding the fresh water ecotox ESL.

#### 4.2 Opinions and Recommendations

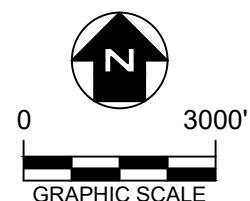
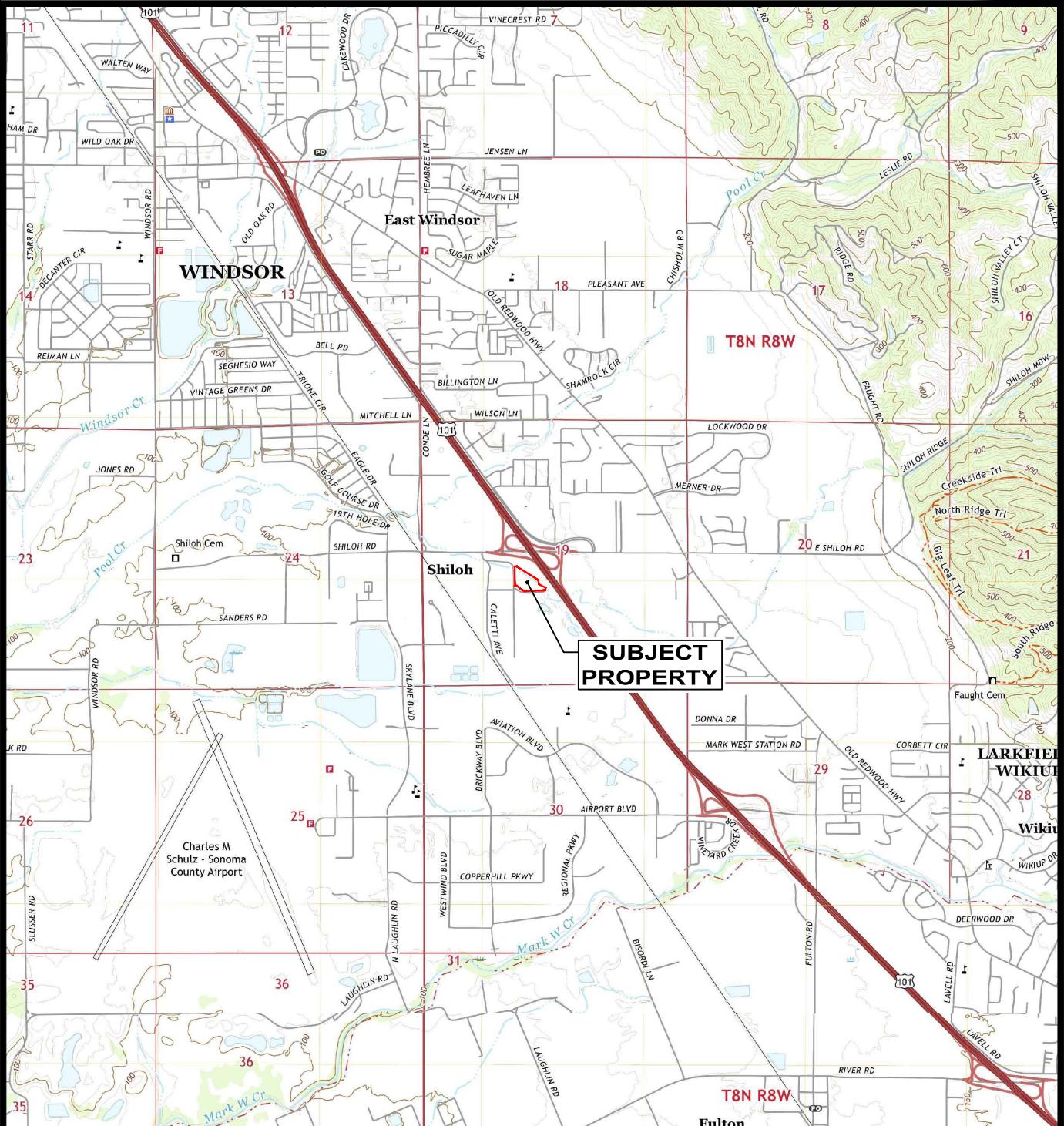
VOCs and SVOCs were generally not reported in soil or groundwater at concentrations exceeding the established SLs. However, naphthalene was detected exceeding the tapwater cancer risk ESL at SB-3-W. Additionally, DEP was detected exceeding the fresh water ecotox ESL in each of the temporary wells. DEP can likely be attributed to a lab or sampling artifact, i.e. was a result of the sampling and analysis process and not directly attributed to a specific source of contamination at the Site.

Aside from arsenic, soil exceedances are limited to groundwater protection standards. Exposure pathways for ingestion, inhalation, and dermal contact are therefore not complete. In the case of arsenic, the reported concentrations were below the California Los Angeles Schools background study value of 6.0 mg/kg. The presence of arsenic is therefore likely a natural occurrence, and not attributable to anthropogenic causes.

Groundwater sample results did not reveal exceedances of MCLs. Concentrations of hexavalent chromium, lead, mercury, naphthalene and DEP were reported to exceed SLs for tapwater and ecotox (surface water standard).

The Site does not appear to be grossly impacted by the RECs identified in the Phase I ESA Report. However, there are risks of exposure to naturally occurring arsenic, hexavalent chromium, lead, mercury, naphthalene and DEP. These impacts could be addressed by in-situ and ex-situ remediation measures such as shallow excavation, soil injection, and pump and treat systems. They can be remedied by implementing risk-based measures like the installation and maintenance of engineered barriers, adherence to a soil management plan, and prohibition of groundwater well installation/use.

# FIGURES



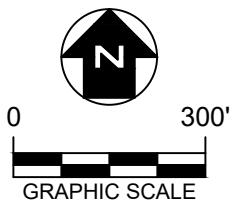
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**5865-5897 PRUITT AVENUE  
PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**FIGURE 1  
SITE LOCATION MAP**

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### LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- APPROXIMATE REC LOCATIONS
- APPROXIMATE OPERABLE UNIT BOUNDARIES
- APPROXIMATE FORMER PATH OF PRUITT CREEK

### NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.

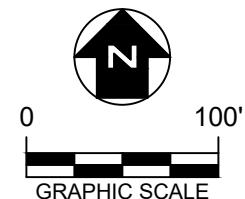
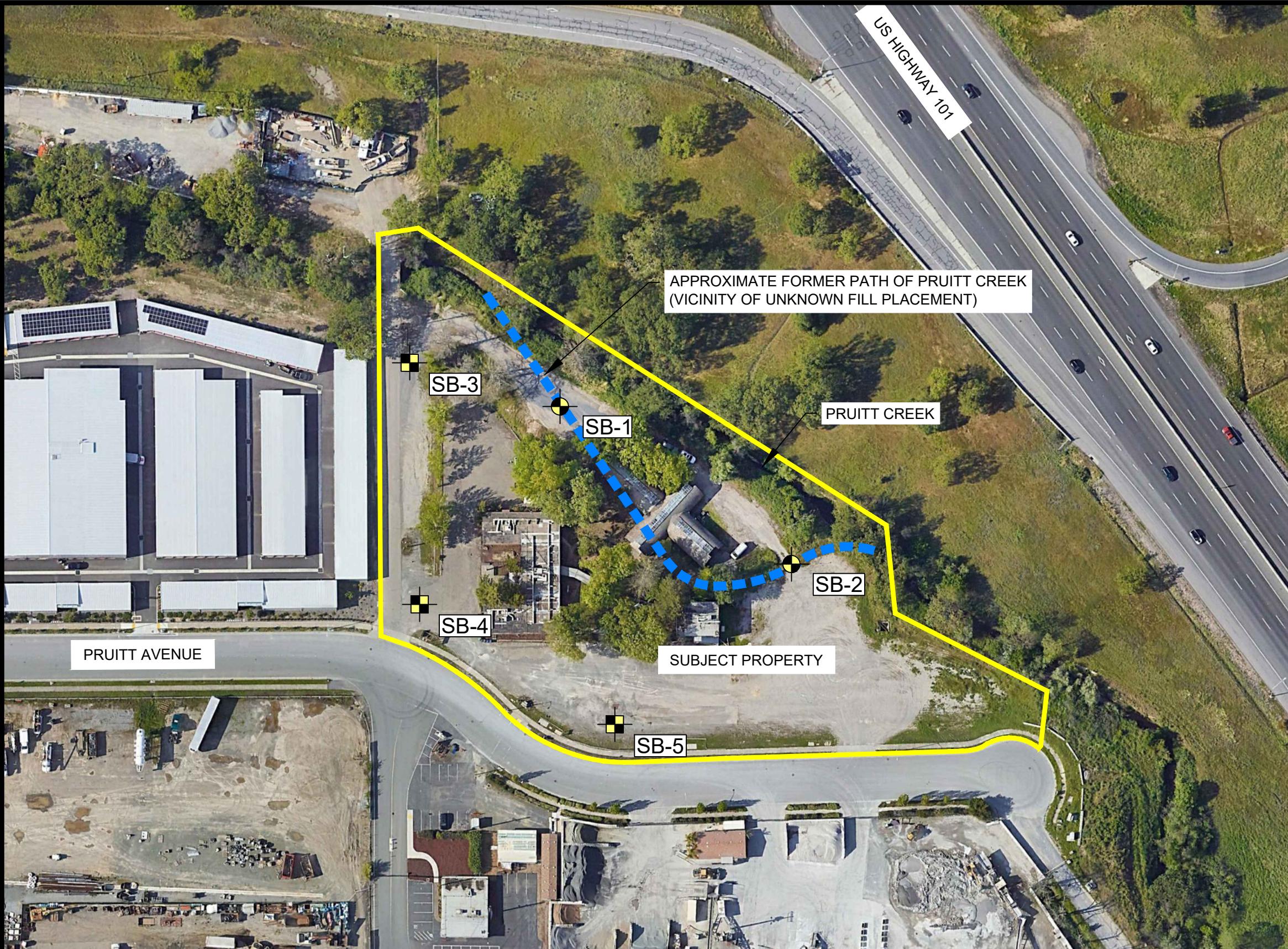
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### 5865-5897 PRUITT AVENUE PHASE I ENVIRONMENTAL SITE ASSESSMENT

### FIGURE 2 RECOGNIZED ENVIRONMENTAL CONDITIONS MAP



#### LEGEND

- APPROXIMATE SUBJECT PROPERTY BOUNDARY
- - - APPROXIMATE FORMER PATH OF PRUITT CREEK
- SOIL BORING
- SB-1
- SB-3
- SB-2
- SB-4
- SB-5
- SB-1
- SB-3

#### NOTES

1. AERIAL OBTAINED FROM GOOGLE EARTH IMAGERY (MARCH 2023).
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.

#### 5865-5897 PRUITT AVENUE PHASE II ENVIRONMENTAL SITE ASSESSMENT

**FIGURE 3**  
**SITE INVESTIGATION LAYOUT MAP**



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DRAWN BY: EJS APPROVED BY: JPL PROJ. NO.: 631034142 DATE: OCT 2023

# TABLES

**Table 1**  
**Summary of Analytical Results**  
**VOCS, SVOCs and Metals in Soil**

5885 Pruitt Avenue  
Windsor, California

Sample Identification:		Summary of Soil Environmental Screening Levels								US EPA Regional Screening Levels																	
		Direct Exposure Human Health Risk Levels				Terrestrial Habitat	Leaching to GW Levels	Gross Contamination Levels	Odor Nuisance Levels				Industrial Soil	Protection of GW SSLs		SB-1-4'	SB-2-7'	SB-3-4'	SB-4-4'	SB-5-4'							
Date of Collection:		Com/Ind		Construction Worker					Com/Ind	CW	Risk-Based SSLs	MCL-Based SSLs		9/18/2023	9/18/2023	9/18/2023	9/18/2023	9/18/2023									
Time of Collection:		Cancer Risk	NC Hazard	Cancer Risk	NC Hazard	Min Veg	DW									13:40	14:00	12:00	11:00	10:20							
Contaminants of Concern																											
<b>Metals (6010B and 7199)</b>																											
Arsenic	mg/Kg	0.31	3.63	2.03	0.98	50	--	--	--	--	3	0.0015	0.29	4.3	4.4	5.4	3.3	3.1									
Barium	mg/Kg	--	216611	--	3019	670	--	--	--	--	220000	160	82	150	150	160	410	83									
Cadmium	mg/Kg	4,000	1,100	110	51	1.9	---	---	---	---	100	---	---	ND	ND	ND	ND	ND									
Chromium, Total	mg/Kg	--	--	--	160	10	---	--	--	--	---	---	180000	33	32	39	35	24									
Chromium, hexavalent	mg/Kg	6.2	3,500	2.8	400	10	---	---	---	---	6.3	0.00067	---	NA	NA	1.2	0.65	0.64									
Lead	mg/Kg	385	320	2701	160	32	--	--	--	--	800	---	14	9.9	9.3	11	7.6	5.8									
Mercury	mg/Kg	--	187	--	44	20	--	--	1000	1000	46	0.033	0.1	0.1	0.03	0.05	ND	0.017									
Selenium	mg/Kg	--	5,840	--	1745	5.5	--	--	--	--	5,800	0.52	0.26	ND	ND	ND	ND	ND									
Silver	mg/Kg	--	5,840	--	1770	50	--	--	--	--	5,800	0.8	---	ND	ND	ND	ND	ND									
<b>Volatile Organic Compounds (8260B/503)</b>																											
Toluene	mg/Kg	---	5,300,000	---	4,700,000	660,000	3,200	810,000	1,000,000	1,000,000	47,000,000	760	690	0.0018	ND	ND	ND	ND									
Additional 61 VOC Constituents	mg/Kg	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND	ND	ND									
<b>Semi-Volatile Organic Compounds (8270)</b>																											
Pentachlorophenol	mg/Kg	4	2,800	20	560	39	9.80E-02	51	1,000	1,000	4	0.000057	0.0014	ND	ND	ND	ND	ND									
3&4 Methylphenol	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	0.061	ND	ND	ND	ND	ND									
Additional 88 SVOC Constituents	mg/Kg	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND	ND	ND									

**Notes:**

**24.7** indicates result exceeds one or more screening level - both ESL and/or RSL  
**1.9** indicates screening level has been exceeded in at least one sample

**Toxicity** indicates carcinogen (C) or non-carcinogen (N)

Environmental Screening Levels updated January 2019 by the San Francisco Bay Regional Water Quality Control Board

Regional Screening Levels from [www.epa.gov](http://www.epa.gov) as of May 2023

**SSLs** - Soil Screening Levels, updated January 2015 by the USEPA (Region 9)

**MCL** - Maximum Contaminant Level

\* indicates DTSC-modified screening level, taken from the Human Health Risk Assessment Note #3, Table 1 (May 2015)

**mg/kg** - milligrams per kilogram

"--" indicates no screening level established or not analyzed

**ND** indicates analytes were not detected above laboratory reporting limits

**Table 2**  
**Summary of Analytical Results**  
**VOCS, SVOCs and Metals in Groundwater**

5885 Pruitt Avenue  
Windsor, California

Sample Identification:		Summary of Groundwater Environmental Screening Levels								US EPA Regional Screening Levels		SB-3-W	SB-4-W	SB-5-W				
		Direct Exposure Human Health Risk Levels		Aquatic Habitat Goal Levels		Groundwater Vapor Intrusion Human Health		Gross Contamination Levels	Odor Nuisance Levels									
Date of Collection:		Tapwater	Tapwater	Fresh Water Ecotox	Com/Ind		Contamination Levels	Drinking Water	Tapwater	MCL	9/18/2023	9/18/2023	9/18/2023					
		Cancer Risk	Non-Cancer Risk		Cancer Risk	Non-Cancer Risk					16:15	15:00	15:40					
Contaminants of Concern	Units																	
<b>Metals (6010B and 7199)</b>																		
Arsenic	µg/L	0.004	0.070	150	--	--	50,000	--	0.052	10	ND	ND	ND	ND				
Barium	µg/L	--	2000	--	--	--	50,000	--	3800	2000	120	81	180					
Cadmium	µg/L	---	0.04	0.25	---	---	50,000	---	1.8	5	ND	ND	ND					
Chromium, Total	µg/L	--	--	180	--	--	50,000	--	---	100	21	20	41					
Hexavalent chromium	µg/L	0.02	44	11	---	---	50,000	---	0.035	---	0.52	ND	0.17					
Lead	µg/L	9.16	0.2	2.5	--	--	50,000	--	15	15	4.9	ND	ND					
Mercury	µg/L	--	0.06	0.025	--	0.38	30	--	0.63	2	0.023	0.16	0.092					
Selenium	µg/L	--	30	5	--	--	50,000	--	100	50	ND	ND	ND					
Silver	µg/L	--	94	3.4	--	--	50,000	100	94	--	ND	ND	ND					
<b>Volatile Organic Compounds (8260B/503)</b>																		
Naphthalene	µg/L	0.17	6.1	24	20	730	16,000	21	--	--	0.5	ND	ND					
Toluene	µg/L	--	150	130	--	4,900	50,000	40	1,100	1,000	0.27	0.19	0.30					
Additional 66 VOC Constituents	µg/L	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND					
<b>Semi-Volatile Organic Compounds (8260)</b>																		
Diethyl phthalate	µg/L	--	15,000	1.5	--	--	50,000	--	--	--	3	3.4	3.1					
Di-n-butyl phthalate	µg/L	--	--	--	--	--	--	--	--	--	ND	2.9	ND					
Additional 66 SVOC Constituents	µg/L	Various	Various	Various	Various	Various	Various	Various	Various	Various	ND	ND	ND					

**Notes:**

**24.7** indicates result exceeds one or more screening level - both ESL and/or RSL

**1.9** indicates screening level has been exceeded in at least one sample

µg/L - micrograms per liter

ND indicates analytes were not detected above laboratory reporting limits

"--" indicates no screening level established or not analyzed

**MCL** - Maximum Contaminant Level

**Toxicity** indicates carcinogen (C) or non-carcinogen (N)

Environmental Screening Levels updated January 2019 by the San Francisco Bay Regional Water Quality Control Board

Regional Screening Levels from [www.epa.gov](http://www.epa.gov) as of May 2023

Contaminants of Concern detected in at least one sample are shown

## APPENDIX A

### Photographic Documentation Log

**APTIM**  
**Photographic Record**

**Client:** Zero Waste Sonoma

**Project Number:** 631034142

**Site Name and Location:** Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



**Comments:** Drilling area at SB-1

**Photographer:** S. Bittinger

**Date:** September 18, 2023

**Photograph 1 of 5**

**APTIM**  
**Photographic Record**

**Client:** Zero Waste Sonoma

**Project Number:** 631034142

**Site Name and Location:** Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



**Comments:** Drilling area at SB-2

**Photographer:** S. Bittinger

**Date:** September 18, 2023

**Photograph 2 of 5**

**APTIM**  
**Photographic Record**

**Client:** Zero Waste Sonoma

**Project Number:** 631034142

**Site Name and Location:** Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



**Comments:** Drilling area at SB-3; hole drilled at left side of image of avoid underground utility conflict.

**Photographer:** S. Bittinger

**Date:** September 18, 2023

**Photograph 3 of 5**

**APTIM**  
**Photographic Record**

**Client:** Zero Waste Sonoma

**Project Number:** 631034142

**Site Name and Location:** Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



**Comments:** Drilling area at SB-4; hole drilled at edge of roadway to avoid underground utility conflict

**Photographer:** S. Bittinger

**Date:** September 18, 2023

**Photograph 4 of 5**

**APTIM**  
**Photographic Record**

**Client:** Zero Waste Sonoma

**Project Number:** 631034142

**Site Name and Location:** Phase 2 ESA, 5871 Pruitt Avenue, Windsor, California



**Comments:** Drilling area at SB-5

**Photographer:** S. Bittinger

**Date:** September 18, 2023

**Photograph 5 of 5**

## APPENDIX B

### Soil Boring Logs



BORING NO.: SB-1

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA

SHEET 1 OF 1

PROJECT NO.:

TOTAL DEPTH:

10.0

CLIENT:

ZWS

SITE LOCATION:

5885 Pruitt

LOGGED BY: Scott Bittenger

BORING LOCATION:

DATE STARTED: 9/18/23

DATE ENDED:

9/18/23

TIME STARTED:

TIME ENDED:

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Very Dark Gray (GLEY1 3/N), CLAY with SAND, trace woody debris, earthy odor, moist.	CL	MC-1 (0-5')		0.3		
3									
4									Sample collected at 4.0'
5			Dark Yellowish Brown (10YR 4/4), SILTY CLAY, 2-8% fine sand, moist, stiff.	CL	MC-2 (5-10')		--		
6									
7									
8									
9									
10			End of Boring @ 10.0'						
11									
12									
13									
14									
15									

DRILLING INFORMATIONWATER LEVELREMARKS

DRILLING CONTRACTOR: Cascade

Borehole backfilled and sealed with bentonite.

DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long

DRILLING EQUIPMENT: GeoProbe 3126GT



BORING NO.: SB-2

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA

SHEET 1 OF 1

PROJECT NO.:

TOTAL DEPTH:

10.0

CLIENT: ZWS

SITE LOCATION:

5885 Pruitt

LOGGED BY: Scott Bittenger

BORING LOCATION:

DATE STARTED: 9/18/23

DATE ENDED:

9/18/23

TIME STARTED:

TIME ENDED:

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Dark Yellowish Brown (10YR 4/4) CLAY, 6-12% fine sand, moist.	CL	MC-1 (0-5')		0.0		
3									
4			Very Dark Brown (10YR 2/2), CLAY, 3-7% fine sand, moist, stiff.	CL					
5									
6			Very Dark Brown (10YR 2/2) CLAYEY SAND, 80% fine to medium sand, 20% clayey fines, moist.						
7									Sample collected at 7.0'
8									
9			Hit rock at 9.0', split sampler open, no recovery from 9.0-10.0'.	SC	MC-2 (5-10')		0.7		
10			End of Boring @ 10.0'						
11									
12									
13									
14									
15									

DRILLING INFORMATIONWATER LEVELREMARKS

DRILLING CONTRACTOR: Cascade

Borehole backfilled and sealed with bentonite.

DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long

DRILLING EQUIPMENT: GeoProbe 3126GT



BORING NO.: SB-3

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA SHEET 1 OF 1  
 PROJECT NO.:  
 CLIENT: ZWS TOTAL DEPTH: 25.0  
 LOGGED BY: Scott Bittenger SITE LOCATION: 5885 Pruitt  
 DATE STARTED: 9/18/23 BORING LOCATION:  
 TIME STARTED: TIME ENDED: 9/18/23

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Dark Yellowish Brown (10YR 4/4) SILTY CLAY, dry, stiff.  1-5% fine sand from 5.0 -9.5"	CL	MC-1 (0-5')		0.0		
3									
4									
5									
6									
7									
8									
9									
10			Dark Yellowish Brown (10YR 4/4), SILTY CLAY, trace black MnO <sub>2</sub> stains, stiff, dry.	CL	MC-4 (9-13')		0.0		
11									
12			Dark Yellowish Brown (10YR 4/4) CLAYEY SAND, 60% fine sand, 40% clayey fines, moist.	SC	MC-5 (13-17')		0.0		
13									
14			Dark Yellowish Brown (10YR 4/4), SAND with CLAY and Fine GRAVEL, 70% fine sand, 10% fine gravel, 20% clay, wet to damp.	SP-SC	MC-6 (17-21')		0.0		
15									
16			Dark Yellowish Brown (10YR 4/4) CLAYEY SAND, 60% fine sand, 40% clayey fines, moist.	SC	MC-7 (21-25')		--		
17									
18			SAND, fine grained, 5-8% clay, wet.	SP-SC					
19			MnO <sub>2</sub> stains from 19.0-20.0'						
20									
21									
22			Brown (10YR 4/3), SANDY CLAY, 10-15% fine sand, 85-90% clay, dry, stiff.	CL					
23									
24									
25			End of Boring @ 25.0'						
26									
27									
28									
29									
30									

DRILLING INFORMATIONWATER LEVELREMARKS

DRILLING CONTRACTOR: Cascade

Borehole backfilled and sealed with bentonite.

DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long

DRILLING EQUIPMENT: GeoProbe 3126GT



BORING NO.: SB-4

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA SHEET 1 OF 1  
 PROJECT NO.:  
 CLIENT: ZWS TOTAL DEPTH: 25.0  
 LOGGED BY: Scott Bittenger SITE LOCATION: 5885 Pruitt  
 DATE STARTED: 9/18/23 BORING LOCATION:  
 TIME STARTED: TIME ENDED: 9/18/23

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Light Olive Brown (2.5Y 5/4) SILT, dry.	ML	MC-1 (0-5')		0.0		
3									
4									
5			Dark Yellowish Brown (10YR 4/4), CLAYEY SAND, 50% fine sand, 45% clay, 5% medium to coarse sand, dry.	SC	MC-2 (5-9')		0.0		
6									
7									
8									
9			Dark Yellowish Brown (10YR 3/4) SANDY CLAY, damp.	CL	MC-3 (9-13')		0.0		
10									
11									
12			Brown (10YR 5/3), CLAYEY SAND, 55% fine sand, 45% clayey fines, damp.	SC	MC-4 (13-17')		--		
13									
14			SAND, 90% fine sand, 5% medium sand, 5% clay, damp to wet.	SP	MC-5 (17-21')		--		DTW: 14.4'
15									
16									
17			Brown (10YR 5/3), SILTY CLAY, moist, stiff.	SC	MC-6 (21-25')		--		
18									
19			SAND, 85% fine sand, 10% medium sand, 5% clay, wet.	SP					
20									
21			Dark Brown (10YR 3/3), SILTY CLAY, dry stiff.	CL					
22									
23									
24									
25			End of Boring @ 25.0'						
26									
27									
28									
29									
30									

DRILLING INFORMATIONWATER LEVELREMARKS

DRILLING CONTRACTOR: Cascade

Borehole backfilled and sealed with bentonite.

DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long

DRILLING EQUIPMENT: GeoProbe 3126GT



BORING NO.: SB-5

PROJECT: Zero Waste Sonoma (ZWS) - Phase II ESA SHEET 1 OF 1  
 PROJECT NO.: 631034142 TOTAL DEPTH: 25.0  
 CLIENT: ZWS SITE LOCATION: 5885 Pruitt  
 LOGGED BY: Scott Bittenger BORING LOCATION:  
 DATE STARTED: 9/18/23 DATE ENDED: 9/18/23  
 TIME STARTED: TIME ENDED:

Depth in Feet	Surf. Elev.	Strata	DESCRIPTION	USCS	Sample Type & No. Depth (ft) Recovery (in)	Blow Count (N)	PID (ppm)	UCS (tsf)	REMARKS
0			Road base, compacted gravel and sand mix.	FL					
1									
2			Black (5Y 2.5/1) with Dark Gray (10YR 4/1) CLAY, moist.	CL	MC-1 (0-5')		0.0		
3									
4			Gray (GLEY 1 5/N) CLAYEY SAND, 55-65% fine sand, 35-45% clay, trace caliche 4-5', moist to damp, woody material present at 6-7'.	SC	MC-2 (5-10')		0.0		Sample collected at 4.0'
5									
6									
7			Olive Brown (2.5Y 4/6), SANDY CLAY, 10-15% fine to medium sand, 85-90% clay, moist.	CL	MC-3 (10-15')		0.0		
8									
9									
10									
11									
12			Light Olive Brown (2.5Y 5/4), SANDY CLAY, 75% clay, 25% very fine sand, moist.	CL	MC-4 (15-18')		0.0		
13									
14									
15			Light Olive Brown (2.5Y 5/4), CLAY, dry, stiff.	CL	MC-5 (18-21')		--		
16									
17			Light Olive Brown (2.5Y 5/4), CLAYEY SAND, 75% fine sand, 25% clay, moist, stiff.	SC	MC-6 (21-25')		--		DTW: 17.7'
18									
19									
20			SAND, fine grained, trace medium sand, trace clay, damp.	SP					
21			SAND with GRAVEL, 80% fine sand, 15% fine to medium gravel, 5% clay, wet.	GW					
22									
23									
24			Olive Brown (2.5Y 4/6) SILTY CLAY, dry, stiff.	CL					
25									
26			End of Boring @ 25.0'						
27									
28									
29									
30									

DRILLING INFORMATIONWATER LEVELREMARKS

DRILLING CONTRACTOR: Cascade

Borehole backfilled and sealed with bentonite..

DRILLING METHOD: Geoprobe; Macrocore 2" O.D x 5' Long

DRILLING EQUIPMENT: GeoProbe 3126GT

## APPENDIX C

### Laboratory Analytical Reports

Date of Report: 10/17/2023

Scott Bittinger

APTIM -Concord

4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Client Project: 631034162.00131101

BCL Project: Phase 2 Site Assessment, Zero Waste Sonoma

BCL Work Order: 2317918

Invoice ID: B485019

Enclosed are the results of analyses for samples received by the laboratory on 9/19/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Felicia Johnson  
Client Service Rep



Stuart Buttram  
Operations Manager

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Chemical Analysis.....	20
Total Concentrations (TTLC).....	21
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Volatile Organic Analysis (EPA Method 8260B/5035).....	22
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	25
Chemical Analysis.....	28
Total Concentrations (TTLC).....	29
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Volatile Organic Analysis (EPA Method 8260B/5035).....	30
Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C).....	33
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.  
 All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2317918-01	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-5-4' <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 10:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2317918-02	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-4-4' <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2317918-03	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-3-4' <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 12:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2317918-04	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-1-4' <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 13:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2317918-05	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-2-7' <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 14:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Solids <b>Sample Type:</b> Soil		
2317918-06	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-3-W <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 16:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water		
2317918-07	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-4-W <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 15:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.  
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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2317918-08	<b>COC Number:</b> --- <b>Project Number:</b> --- <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-5-W <b>Sampled By:</b> Scott B	<b>Receive Date:</b> 09/19/2023 09:49 <b>Sampling Date:</b> 09/18/2023 15:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0034	0.00059	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0034	0.00055	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0034	0.00053	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0034	0.0012	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0034	0.00051	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0034	0.00048	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0034	0.00058	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0034	0.00053	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0034	0.00052	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0034	0.00075	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0034	0.00061	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0034	0.00075	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0034	0.00059	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0034	0.00065	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0034	0.00056	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0034	0.00095	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0034	0.00049	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0034	0.00049	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0034	0.00043	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0034	0.00049	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0034	0.00075	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0034	0.00037	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0034	0.0025	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0034	0.00039	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0034	0.00040	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.0068	0.00075	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0034	0.00038	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0034	0.00067	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0034	0.00048	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0034	0.00042	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0034	0.00064	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0034	0.00057	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0034	0.00066	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0034	0.00047	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0034	0.0010	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0034	0.00095	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0034	0.00064	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0034	0.00050	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0034	0.0010	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0034	0.0013	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0034	0.00068	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0034	0.00054	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0034	0.00045	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0034	0.00040	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.0068	0.0017	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0034	0.0010	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0034	0.00063	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:		Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B						
DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/26/23 15:10	09/26/23 23:30		EAB	MS-V17	0.678	B174618 EPA 5035 Soil MS

DCN = Data Continuation Number

APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.014	EPA-8270C	ND		1
Total Methylphenol	ND	mg/kg	0.20	0.021	EPA-8270C	ND		1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	74.6	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	79.4	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	75.9	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	76.2	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	67.2	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	87.2	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 16:03	CMM	MS-B9	1.010	B174941	EPA 3550B

DCN = Data Continuation Number

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Chemical Analysis

BCL Sample ID:	2317918-01	Client Sample Name: SB-5-4', 9/18/2023 10:20:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	19.5	%	0.05	0.05	Calc	ND		1
Solids	80.5	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Calc	09/22/23 09:56	10/10/23 12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	09/27/23 14:00	09/28/23 09:00	ELR	MANUAL	1	B174741	SM 2540G

DCN = Data Continuation Number

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Total Concentrations (TTLC)

BCL Sample ID:	2317918-01	Client Sample Name:	SB-5-4', 9/18/2023 10:20:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	3.1	mg/kg	1.0	0.40	EPA-6010B	ND		1
Barium	83	mg/kg	0.50	0.18	EPA-6010B	ND		1
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	ND		1
Chromium	24	mg/kg	0.50	0.050	EPA-6010B	0.074		1
Total Hexavalent Chromium	0.64	mg/kg	1.0	0.30	EPA-7199	ND	J	2
Lead	5.8	mg/kg	2.5	0.41	EPA-6010B	ND		1
Mercury	0.017	mg/kg	0.16	0.016	EPA-7471A	ND	J	3
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method				
1	EPA-6010B	09/25/23 11:35	10/04/23 15:18	JRG	PE-OP4	0.926	B174581	EPA 3050B	
2	EPA-7199	09/26/23 07:00	09/28/23 22:32	EEC	IC11	0.970	B174633	EPA 3060A	
3	EPA-7471A	09/27/23 08:40	09/27/23 13:47	MG2	CETAC3	0.977	B174712	EPA 7471A	

DCN = Data Continuation Number

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0074	0.0025	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0074	0.00095	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0074	0.00080	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0074	0.0055	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00086	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.015	0.0016	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0074	0.00083	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0074	0.00092	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0074	0.00099	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0074	0.0028	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.015	0.0037	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.1	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:		2317918-02	Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B					
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/26/23 16:09	09/26/23	23:52	EAB	MS-V17	1.484	B174618 EPA 5035 Soil MS

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-02	Client Sample Name: SB-4-4', 9/18/2023 11:00:00AM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Acenaphthylene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Aldrin	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Aniline	ND	mg/kg	2.0	0.11	EPA-8270C	ND	A10	1
Anthracene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzidine	ND	mg/kg	30	0.093	EPA-8270C	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	1.0	0.077	EPA-8270C	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	1.0	0.082	EPA-8270C	ND	A10	1
Benzo[b+k]fluoranthene	ND	mg/kg	1.0	0.082	EPA-8270C	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	1.0	0.13	EPA-8270C	ND	A10	1
Benzoic acid	ND	mg/kg	5.0	0.14	EPA-8270C	ND	A10	1
Benzyl alcohol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Benzyl butyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
alpha-BHC	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
beta-BHC	ND	mg/kg	1.0	0.075	EPA-8270C	ND	A10	1
delta-BHC	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
gamma-BHC (Lindane)	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
bis(2-Chloroethoxy)methane	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
bis(2-Chloroethyl) ether	ND	mg/kg	1.0	0.097	EPA-8270C	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
4-Bromophenyl phenyl ether	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Chloroaniline	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
2-Chloronaphthalene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Chlorophenyl phenyl ether	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Chrysene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4,4'-DDD	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4,4'-DDE	ND	mg/kg	1.0	0.068	EPA-8270C	ND	A10	1
4,4'-DDT	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Dibenzofuran	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,3-Dichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,4-Dichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
3,3-Dichlorobenzidine	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
Dieldrin	ND	mg/kg	1.0	0.077	EPA-8270C	ND	A10	1
Diethyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Dimethyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Di-n-butyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4-Dinitrotoluene	ND	mg/kg	1.0	0.085	EPA-8270C	ND	A10	1
2,6-Dinitrotoluene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Di-n-octyl phthalate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,2-Diphenylhydrazine	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Endosulfan I	ND	mg/kg	2.0	0.088	EPA-8270C	ND	A10	1
Endosulfan II	ND	mg/kg	2.0	0.088	EPA-8270C	ND	A10	1
Endosulfan sulfate	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Endrin	ND	mg/kg	2.0	0.086	EPA-8270C	ND	A10	1
Endrin aldehyde	ND	mg/kg	5.0	0.070	EPA-8270C	ND	A10	1
Fluoranthene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Fluorene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Heptachlor	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Heptachlor epoxide	ND	mg/kg	1.0	0.13	EPA-8270C	ND	A10	1
Hexachlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Hexachlorobutadiene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Hexachlorocyclopentadiene	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
Hexachloroethane	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	1.0	0.069	EPA-8270C	ND	A10	1
Isophorone	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2-Methylnaphthalene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Naphthalene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2-Naphthylamine	ND	mg/kg	30	0.36	EPA-8270C	ND	A10	1
2-Nitroaniline	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
3-Nitroaniline	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
4-Nitroaniline	ND	mg/kg	2.0	0.11	EPA-8270C	ND	A10	1

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Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
N-Nitrosodimethylamine	ND	mg/kg	1.0	0.40	EPA-8270C	ND	A10	1
N-Nitrosodi-N-propylamine	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
N-Nitrosodiphenylamine	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Phenanthrene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
Pyrene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
1,2,4-Trichlorobenzene	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Chloro-3-methylphenol	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
2-Chlorophenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4-Dichlorophenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4-Dimethylphenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	mg/kg	5.0	0.067	EPA-8270C	ND	A10	1
2,4-Dinitrophenol	ND	mg/kg	5.0	0.067	EPA-8270C	ND	A10	1
2-Methylphenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
3- & 4-Methylphenol	ND	mg/kg	2.0	0.14	EPA-8270C	ND	A10	1
Total Methylphenol	ND	mg/kg	2.0	0.21	EPA-8270C	ND	A10	1
2-Nitrophenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
4-Nitrophenol	ND	mg/kg	2.0	0.18	EPA-8270C	ND	A10	1
Pentachlorophenol	ND	mg/kg	2.0	0.17	EPA-8270C	ND	A10	1
Phenol	ND	mg/kg	1.0	0.067	EPA-8270C	ND	A10	1
2,4,5-Trichlorophenol	ND	mg/kg	2.0	0.11	EPA-8270C	ND	A10	1
2,4,6-Trichlorophenol	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
Pyridine	ND	mg/kg	5.0	0.65	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	64.0	%	20 - 130 (LCL - UCL)	EPA-8270C				1
Phenol-d5 (Surrogate)	69.5	%	30 - 130 (LCL - UCL)	EPA-8270C				1
Nitrobenzene-d5 (Surrogate)	66.5	%	30 - 130 (LCL - UCL)	EPA-8270C				1
2-Fluorobiphenyl (Surrogate)	62.5	%	30 - 140 (LCL - UCL)	EPA-8270C				1
2,4,6-Tribromophenol (Surrogate)	0	%	20 - 150 (LCL - UCL)	EPA-8270C		S09		1
p-Terphenyl-d14 (Surrogate)	50.0	%	30 - 150 (LCL - UCL)	EPA-8270C				1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 18:45	CMM	MS-B9	9.836	B174941	EPA 3550B

DCN = Data Continuation Number

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Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Chemical Analysis

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	14.7	%	0.05	0.05	Calc	ND		1
Solids	85.3	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	Batch ID	Prep Method
			Date/Time						
1	Calc	09/22/23 09:56	10/10/23 12:35	SPB	Calc	1	B174498	Calc	
2	SM-2540G	09/27/23 14:00	09/28/23 09:00	ELR	MANUAL	1	B174741	SM 2540G	

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Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Total Concentrations (TTLC)

BCL Sample ID:	2317918-02	Client Sample Name:	SB-4-4', 9/18/2023 11:00:00AM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	3.3	mg/kg	5.0	2.0	EPA-6010B	ND	J,A10	1
Barium	410	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1
Chromium	35	mg/kg	2.5	0.25	EPA-6010B	0.40	A10	1
Total Hexavalent Chromium	0.65	mg/kg	1.0	0.30	EPA-7199	ND	J	2
Lead	7.6	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1
Mercury	ND	mg/kg	0.16	0.016	EPA-7471A	ND		3
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method				
1	EPA-6010B	09/25/23 11:35	10/04/23 18:32	JRG	PE-OP4	4.950	B174581	EPA 3050B	
2	EPA-7199	09/26/23 07:00	09/28/23 23:31	SM2	IC11	0.983	B174633	EPA 3060A	
3	EPA-7471A	09/27/23 08:40	09/27/23 14:05	MG2	CETAC3	0.962	B174712	EPA 7471A	

DCN = Data Continuation Number

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0074	0.0025	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0074	0.0013	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0074	0.00095	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0074	0.0016	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0074	0.00080	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0074	0.0055	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1

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Concord, CA 94520

Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00086	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.015	0.0016	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0074	0.00083	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0074	0.00092	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0074	0.0021	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0074	0.0010	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0074	0.0011	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0074	0.0028	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0074	0.0015	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0074	0.0012	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0074	0.00098	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0074	0.00088	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.015	0.0037	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0074	0.0022	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0074	0.0014	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:		2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B					
DCN	Method	Prep Date	Run Date/Time		Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/26/23 15:10	09/27/23 00:14		EAB	MS-V17	1.488	B174618 EPA 5035 Soil MS

DCN = Data Continuation Number

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.014	EPA-8270C	ND		1
Total Methylphenol	ND	mg/kg	0.20	0.021	EPA-8270C	ND		1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	67.2	%	20 - 130 (LCL - UCL)	EPA-8270C				1
Phenol-d5 (Surrogate)	74.8	%	30 - 130 (LCL - UCL)	EPA-8270C				1
Nitrobenzene-d5 (Surrogate)	68.5	%	30 - 130 (LCL - UCL)	EPA-8270C				1
2-Fluorobiphenyl (Surrogate)	39.2	%	30 - 140 (LCL - UCL)	EPA-8270C				1
2,4,6-Tribromophenol (Surrogate)	36.7	%	20 - 150 (LCL - UCL)	EPA-8270C				1
p-Terphenyl-d14 (Surrogate)	23.4	%	30 - 150 (LCL - UCL)	EPA-8270C		S09		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 15:36	CMM	MS-B9	1	B174941	EPA 3550B

DCN = Data Continuation Number

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**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Chemical Analysis

BCL Sample ID:	2317918-03	Client Sample Name: SB-3-4', 9/18/2023 12:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	12.9	%	0.05	0.05	Calc	ND		1
Solids	87.1	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	Batch ID	Prep Method
			Date/Time						
1	Calc	09/22/23 09:56	10/10/23 12:35	SPB	Calc	1	B174498	Calc	
2	SM-2540G	09/27/23 14:00	09/28/23 09:00	ELR	MANUAL	1	B174741	SM 2540G	

DCN = Data Continuation Number

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Total Concentrations (TTLC)

BCL Sample ID:	2317918-03	Client Sample Name:	SB-3-4', 9/18/2023 12:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	5.4	mg/kg	5.0	2.0	EPA-6010B	ND	A10	1
Barium	160	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1
Chromium	39	mg/kg	2.5	0.25	EPA-6010B	0.40	A10	1
Total Hexavalent Chromium	1.2	mg/kg	1.0	0.30	EPA-7199	ND		2
Lead	11	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1
Mercury	0.050	mg/kg	0.16	0.016	EPA-7471A	ND	J	3
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method				
1	EPA-6010B	09/25/23 11:35	10/04/23 15:06	JRG	PE-OP4	5	B174581	EPA 3050B	
2	EPA-7199	09/26/23 07:00	09/28/23 23:40	SM2	IC11	0.991	B174633	EPA 3060A	
3	EPA-7471A	09/27/23 08:40	09/27/23 14:07	MG2	CETAC3	0.977	B174712	EPA 7471A	

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-04	Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	0.0018	mg/kg	0.0050	0.00069	EPA-8260B	ND	J	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.0	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:		Client Sample Name: SB-1-4', 9/18/2023 1:40:00PM, Scott B					
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/26/23 15:40	09/26/23 21:21	EAB	MS-V17	1.010	B174684 EPA 5035 Soil MS

DCN = Data Continuation Number

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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**Reported:** 10/17/2023 8:28

**Project:** Phase 2 Site Assesment, Zero Waste Sonoma

**Project Number:** 631034162.00131101

**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
<b>3- &amp; 4-Methylphenol</b>	<b>0.061</b>	<b>mg/kg</b>	<b>0.20</b>	<b>0.014</b>	<b>EPA-8270C</b>	ND	<b>J</b>	1
<b>Total Methylphenol</b>	<b>0.061</b>	<b>mg/kg</b>	<b>0.20</b>	<b>0.021</b>	<b>EPA-8270C</b>	ND	<b>J</b>	1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	68.0	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	73.8	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	65.6	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	60.5	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.4	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	74.8	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 16:30	CMM	MS-B9	0.990	B174941	EPA 3550B

DCN = Data Continuation Number

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Chemical Analysis

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	17.8	%	0.05	0.05	Calc	ND		1
Solids	82.2	%	0.05	0.05	SM-2540G		S05	2

DCN	Method	Prep Date	Run	Analyst	Instrument	Dilution	QC	Batch ID	Prep Method
			Date/Time						
1	Calc	09/22/23 09:56	10/10/23 12:35	SPB	Calc	1	B174498	Calc	
2	SM-2540G	10/09/23 09:30	10/10/23 09:00	ELR	SC-2	1	B175676	SM 2540G	

DCN = Data Continuation Number

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Total Concentrations (TTLC)

BCL Sample ID:	2317918-04	Client Sample Name:	SB-1-4', 9/18/2023 1:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	4.3	mg/kg	5.0	2.0	EPA-6010B	ND	J,A10	1
Barium	150	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1
Chromium	33	mg/kg	2.5	0.25	EPA-6010B	0.38	A10	1
Lead	9.9	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1
Mercury	0.10	mg/kg	0.16	0.016	EPA-7471A	ND	J	2
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Time				Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23	18:31	JRG	PE-OP4	4.762	B174581	EPA 3050B
2	EPA-7471A	09/27/23 08:40	09/27/23	14:09	MG2	CETAC3	1.025	B174712	EPA 7471A

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APTIM -Concord  
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Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-05	Client Sample Name:	SB-2-7', 9/18/2023 2:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0045	0.00078	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0045	0.00073	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0045	0.00070	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0045	0.00063	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0045	0.0015	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0045	0.00068	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0045	0.00064	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0045	0.00076	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0045	0.00070	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0045	0.00069	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0045	0.00099	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0045	0.00081	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0045	0.00099	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0045	0.00078	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0045	0.00063	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0045	0.00086	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0045	0.00073	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0045	0.00071	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0045	0.00065	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0045	0.00065	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0045	0.00071	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0045	0.00057	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0045	0.00065	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0045	0.00099	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0045	0.00048	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0045	0.0033	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:	2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0045	0.00052	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0045	0.00059	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0045	0.00062	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0045	0.00053	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.0090	0.00099	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0045	0.00050	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0045	0.00089	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0045	0.00064	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0045	0.00056	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0045	0.00085	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0045	0.00075	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0045	0.00087	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0045	0.00062	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0045	0.00060	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0045	0.00084	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0045	0.00066	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0045	0.0017	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0045	0.00090	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0045	0.00072	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0045	0.00059	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0045	0.00053	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.0090	0.0022	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0045	0.0013	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0045	0.00083	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

BCL Sample ID:		Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B					
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/26/23 15:40	09/27/23 00:35	EAB	MS-V17	0.896	B174684 EPA 5035 Soil MS

DCN = Data Continuation Number

APTIM -Concord  
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Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-05	Client Sample Name:	SB-2-7', 9/18/2023 2:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Acenaphthylene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aldrin	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Aniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
Anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzidine	ND	mg/kg	3.0	0.0093	EPA-8270C	ND		1
Benzo[a]anthracene	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[b+k]fluoranthene	ND	mg/kg	0.10	0.0082	EPA-8270C	ND		1
Benzo[a]pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Benzoic acid	ND	mg/kg	0.50	0.014	EPA-8270C	ND		1
Benzyl alcohol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
alpha-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
beta-BHC	ND	mg/kg	0.10	0.0075	EPA-8270C	ND		1
delta-BHC	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.0097	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloroaniline	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
2-Chloronaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Chrysene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDD	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,4'-DDE	ND	mg/kg	0.10	0.0068	EPA-8270C	ND		1
4,4'-DDT	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dibenzofuran	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1

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Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-05	Client Sample Name:	SB-2-7', 9/18/2023 2:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,2-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Dieldrin	ND	mg/kg	0.10	0.0077	EPA-8270C	ND		1
Diethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Dimethyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	mg/kg	0.10	0.0085	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endosulfan I	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan II	ND	mg/kg	0.20	0.0088	EPA-8270C	ND		1
Endosulfan sulfate	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Endrin	ND	mg/kg	0.20	0.0086	EPA-8270C	ND		1
Endrin aldehyde	ND	mg/kg	0.50	0.0070	EPA-8270C	ND		1
Fluoranthene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Fluorene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Heptachlor epoxide	ND	mg/kg	0.10	0.013	EPA-8270C	ND		1
Hexachlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorobutadiene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.015	EPA-8270C	ND		1
Hexachloroethane	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.0069	EPA-8270C	ND		1
Isophorone	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Methylnaphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Naphthalene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2-Naphthylamine	ND	mg/kg	3.0	0.036	EPA-8270C	ND		1
2-Nitroaniline	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3-Nitroaniline	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
4-Nitroaniline	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-05	Client Sample Name:	SB-2-7', 9/18/2023 2:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Nitrobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.040	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Phenanthrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
Pyrene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
2-Chlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	mg/kg	0.50	0.0067	EPA-8270C	ND		1
2-Methylphenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	mg/kg	0.20	0.014	EPA-8270C	ND		1
Total Methylphenol	ND	mg/kg	0.20	0.021	EPA-8270C	ND		1
2-Nitrophenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
4-Nitrophenol	ND	mg/kg	0.20	0.018	EPA-8270C	ND		1
Pentachlorophenol	ND	mg/kg	0.20	0.017	EPA-8270C	ND		1
Phenol	ND	mg/kg	0.10	0.0067	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	mg/kg	0.20	0.011	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	mg/kg	0.20	0.0067	EPA-8270C	ND		1
Pyridine	ND	mg/kg	0.50	0.065	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	60.7	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	67.3	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	57.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	48.9	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	53.8	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	66.1	%	30 - 150 (LCL - UCL)		EPA-8270C			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/28/23 14:56	09/29/23 16:57	CMM	MS-B9	0.987	B174941	EPA 3550B

DCN = Data Continuation Number

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Chemical Analysis

BCL Sample ID:	2317918-05	Client Sample Name: SB-2-7', 9/18/2023 2:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Moisture	18.5	%	0.05	0.05	Calc	ND		1
Solids	81.5	%	0.05	0.05	SM-2540G			2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	Calc	09/22/23 09:56	10/10/23	12:35	SPB	Calc	1	B174498	Calc
2	SM-2540G	09/27/23 14:00	09/28/23	09:00	ELR	MANUAL	1	B174741	SM 2540G

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Total Concentrations (TTLC)

BCL Sample ID:	2317918-05	Client Sample Name:	SB-2-7', 9/18/2023 2:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Arsenic	4.4	mg/kg	5.0	2.0	EPA-6010B	ND	J,A10	1
Barium	150	mg/kg	2.5	0.90	EPA-6010B	ND	A10	1
Cadmium	ND	mg/kg	2.5	0.26	EPA-6010B	ND	A10	1
Chromium	32	mg/kg	2.5	0.25	EPA-6010B	0.37	A10	1
Lead	9.3	mg/kg	12	2.0	EPA-6010B	ND	J,A10	1
Mercury	0.030	mg/kg	0.16	0.016	EPA-7471A	ND	J	2
Selenium	ND	mg/kg	5.0	4.9	EPA-6010B	ND	A10	1
Silver	ND	mg/kg	2.5	0.34	EPA-6010B	ND	A10	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Time				Batch ID	Prep Method
1	EPA-6010B	09/25/23 11:35	10/04/23	18:33	JRG	PE-OP4	4.587	B174581	EPA 3050B
2	EPA-7471A	09/27/23 08:40	09/27/23	14:11	MG2	CETAC3	1.025	B174712	EPA 7471A

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Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260B	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260B	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1

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Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
<b>Naphthalene</b>	<b>0.50</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.36</b>	<b>EPA-8260B</b>	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
<b>Toluene</b>	<b>0.27</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.093</b>	<b>EPA-8260B</b>	ND	<b>J</b>	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:		Client Sample Name: SB-3-W, 9/18/2023 4:15:00PM, Scott B					
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/20/23 15:00	09/21/23 03:27	RCC	MS-V21	1	B174357 EPA 5030 Water MS

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	3.0	ug/L	2.0	0.20	<b>EPA-8270C</b>	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	35.2	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	35.5	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	63.7	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	71.8	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	68.8	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	0	%	40 - 150 (LCL - UCL)		EPA-8270C	S09		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/25/23 15:30	09/28/23 00:03	CMM	MS-B2	1	B174351	EPA 3510C

DCN = Data Continuation Number

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Metals Analysis

BCL Sample ID:	2317918-06	Client Sample Name:	SB-3-W, 9/18/2023 4:15:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.52	ug/L	0.20	0.13	EPA-7199	ND	S05	1
Total Arsenic	ND	ug/L	50	7.8	EPA-6010B	ND		2
<b>Total Barium</b>	<b>120</b>	<b>ug/L</b>	<b>10</b>	<b>3.5</b>	<b>EPA-6010B</b>	<b>ND</b>	<b>J</b>	<b>2</b>
Total Cadmium	ND	ug/L	10	1.1	EPA-6010B	ND		2
<b>Total Chromium</b>	<b>21</b>	<b>ug/L</b>	<b>10</b>	<b>1.1</b>	<b>EPA-6010B</b>	<b>1.2</b>	<b>J</b>	<b>2</b>
<b>Total Lead</b>	<b>4.9</b>	<b>ug/L</b>	<b>50</b>	<b>4.0</b>	<b>EPA-6010B</b>	<b>ND</b>	<b>J</b>	<b>2</b>
<b>Total Mercury</b>	<b>0.023</b>	<b>ug/L</b>	<b>0.20</b>	<b>0.022</b>	<b>EPA-7470A</b>	<b>ND</b>	<b>J</b>	<b>3</b>
Total Selenium	ND	ug/L	100	15	EPA-6010B	ND		2
Total Silver	ND	ug/L	10	1.9	EPA-6010B	ND		2

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method				
1	EPA-7199	09/19/23 17:00	09/19/23 18:15	ANN	IC11	1	B174262	No Prep	
2	EPA-6010B	09/22/23 17:20	10/05/23 18:46	ARD	PE-OP4	1	B174539	EPA 3010A	
3	EPA-7470A	09/28/23 08:45	09/28/23 13:29	MG2	CETAC4	1	B174799	EPA 7470A	

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-07	Client Sample Name:	SB-4-W, 9/18/2023 3:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260B	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260B	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-07	Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
<b>Toluene</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.093</b>	<b>EPA-8260B</b>	ND	<b>J</b>	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	130	%	75 - 125 (LCL - UCL)		EPA-8260B	S09		1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:		Client Sample Name: SB-4-W, 9/18/2023 3:00:00PM, Scott B					
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/20/23 15:00	09/21/23 09:39	RCC	MS-V21	1	B174357 EPA 5030 Water MS

DCN = Data Continuation Number

APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-07	Client Sample Name:	SB-4-W, 9/18/2023 3:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-07	Client Sample Name:	SB-4-W, 9/18/2023 3:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	3.4	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	2.9	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-07	Client Sample Name:	SB-4-W, 9/18/2023 3:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	33.0	%	30 - 120 (LCL - UCL)	EPA-8270C				1
Phenol-d5 (Surrogate)	32.8	%	12 - 110 (LCL - UCL)	EPA-8270C				1
Nitrobenzene-d5 (Surrogate)	58.1	%	50 - 130 (LCL - UCL)	EPA-8270C				1
2-Fluorobiphenyl (Surrogate)	68.1	%	55 - 125 (LCL - UCL)	EPA-8270C				1
2,4,6-Tribromophenol (Surrogate)	70.8	%	40 - 150 (LCL - UCL)	EPA-8270C				1
p-Terphenyl-d14 (Surrogate)	64.8	%	40 - 150 (LCL - UCL)	EPA-8270C				1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/25/23 15:30	09/28/23 00:32	CMM	MS-B2	1	B174351	EPA 3510C

DCN = Data Continuation Number

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Metals Analysis

BCL Sample ID:	2317918-07	Client Sample Name:	SB-4-W, 9/18/2023 3:00:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	ND	ug/L	0.20	0.13	EPA-7199	ND	S05	1
Total Arsenic	ND	ug/L	50	7.8	EPA-6010B	ND		2
<b>Total Barium</b>	<b>81</b>	<b>ug/L</b>	<b>10</b>	<b>3.5</b>	<b>EPA-6010B</b>	ND		2
Total Cadmium	ND	ug/L	10	1.1	EPA-6010B	ND		2
<b>Total Chromium</b>	<b>20</b>	<b>ug/L</b>	<b>10</b>	<b>1.1</b>	<b>EPA-6010B</b>	1.2		2
Total Lead	ND	ug/L	50	4.0	EPA-6010B	ND		2
<b>Total Mercury</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.20</b>	<b>0.022</b>	<b>EPA-7470A</b>	ND	<b>J</b>	3
Total Selenium	ND	ug/L	100	15	EPA-6010B	ND		2
Total Silver	ND	ug/L	10	1.9	EPA-6010B	ND		2

DCN	Method	Prep Date	Run Date/Time			Analyst	Instrument	Dilution	QC	
			Date	Time					Batch ID	Prep Method
1	EPA-7199	09/19/23 17:00	09/19/23	18:25		ANN	IC11	1	B174262	No Prep
2	EPA-6010B	09/22/23 17:20	10/05/23	18:48		ARD	PE-OP4	1	B174539	EPA 3010A
3	EPA-7470A	09/28/23 08:45	09/28/23	13:31		MG2	CETAC4	1	B174799	EPA 7470A

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Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-08	Client Sample Name:	SB-5-W, 9/18/2023 3:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260B	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260B	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260B	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260B	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260B	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1

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Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2317918-08	Client Sample Name:	SB-5-W, 9/18/2023 3:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260B	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260B	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260B	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
<b>Toluene</b>	<b>0.30</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.093</b>	<b>EPA-8260B</b>	ND	<b>J</b>	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260B	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260B	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	125	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	112	%	80 - 120 (LCL - UCL)		EPA-8260B			1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:		Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B					
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	09/20/23 15:00	09/21/23 10:06	RCC	MS-V21	1	B174357 EPA 5030 Water MS

DCN = Data Continuation Number

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-08	Client Sample Name:	SB-5-W, 9/18/2023 3:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Acenaphthylene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Aldrin	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
Aniline	ND	ug/L	25	1.4	EPA-8270C	ND	A10	1
Anthracene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzidine	ND	ug/L	100	8.0	EPA-8270C	ND	A10	1
Benzo[a]anthracene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzo[b]fluoranthene	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
Benzo[k]fluoranthene	ND	ug/L	10	1.5	EPA-8270C	ND	A10	1
Benzo[a]pyrene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzo[g,h,i]perylene	ND	ug/L	10	1.6	EPA-8270C	ND	A10	1
Benzoic acid	ND	ug/L	50	2.6	EPA-8270C	ND	A10	1
Benzyl alcohol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Benzyl butyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
alpha-BHC	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
beta-BHC	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
delta-BHC	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
gamma-BHC (Lindane)	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
bis(2-Chloroethyl) ether	ND	ug/L	10	1.6	EPA-8270C	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
bis(2-Ethylhexyl)phthalate	ND	ug/L	20	1.0	EPA-8270C	ND	A10	1
4-Bromophenyl phenyl ether	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Chloroaniline	ND	ug/L	10	5.5	EPA-8270C	ND	A10	1
2-Chloronaphthalene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Chrysene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4,4'-DDD	ND	ug/L	10	1.3	EPA-8270C	ND	A10	1
4,4'-DDE	ND	ug/L	15	1.2	EPA-8270C	ND	A10	1
4,4'-DDT	ND	ug/L	10	1.1	EPA-8270C	ND	A10	1
Dibenzo[a,h]anthracene	ND	ug/L	15	1.7	EPA-8270C	ND	A10	1
Dibenzofuran	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
1,2-Dichlorobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,3-Dichlorobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
1,4-Dichlorobenzene	ND	ug/L	10	1.4	EPA-8270C	ND	A10	1
3,3-Dichlorobenzidine	ND	ug/L	50	2.6	EPA-8270C	ND	A10	1
Dieldrin	ND	ug/L	15	2.0	EPA-8270C	ND	A10	1
Diethyl phthalate	3.1	ug/L	10	1.0	<b>EPA-8270C</b>	ND	J,A10	1
Dimethyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Di-n-butyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2,4-Dinitrotoluene	ND	ug/L	10	2.0	EPA-8270C	ND	A10	1
2,6-Dinitrotoluene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Di-n-octyl phthalate	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
1,2-Diphenylhydrazine	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Endosulfan I	ND	ug/L	50	1.6	EPA-8270C	ND	A10	1
Endosulfan II	ND	ug/L	50	1.5	EPA-8270C	ND	A10	1
Endosulfan sulfate	ND	ug/L	15	1.2	EPA-8270C	ND	A10	1
Endrin	ND	ug/L	10	1.9	EPA-8270C	ND	A10	1
Endrin aldehyde	ND	ug/L	50	2.2	EPA-8270C	ND	A10	1
Fluoranthene	ND	ug/L	10	1.4	EPA-8270C	ND	A10	1
Fluorene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Heptachlor	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Heptachlor epoxide	ND	ug/L	10	1.3	EPA-8270C	ND	A10	1
Hexachlorobenzene	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
Hexachlorobutadiene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Hexachlorocyclopentadiene	ND	ug/L	10	1.6	EPA-8270C	ND	A10	1
Hexachloroethane	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	10	1.4	EPA-8270C	ND	A10	1
Isophorone	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2-Methylnaphthalene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Naphthalene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2-Naphthylamine	ND	ug/L	100	6.5	EPA-8270C	ND	A10	1
2-Nitroaniline	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
3-Nitroaniline	ND	ug/L	10	1.1	EPA-8270C	ND	A10	1
4-Nitroaniline	ND	ug/L	25	1.9	EPA-8270C	ND	A10	1
Nitrobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2317918-08	Client Sample Name: SB-5-W, 9/18/2023 3:40:00PM, Scott B						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
N-Nitrosodimethylamine	ND	ug/L	10	6.0	EPA-8270C	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
N-Nitrosodiphenylamine	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Phenanthrene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
Pyrene	ND	ug/L	10	1.1	EPA-8270C	ND	A10	1
1,2,4-Trichlorobenzene	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Chloro-3-methylphenol	ND	ug/L	25	1.0	EPA-8270C	ND	A10	1
2-Chlorophenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2,4-Dichlorophenol	ND	ug/L	10	1.2	EPA-8270C	ND	A10	1
2,4-Dimethylphenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ug/L	50	1.2	EPA-8270C	ND	A10	1
2,4-Dinitrophenol	ND	ug/L	50	1.0	EPA-8270C	ND	A10	1
2-Methylphenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
3- & 4-Methylphenol	ND	ug/L	10	2.0	EPA-8270C	ND	A10	1
2-Nitrophenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
4-Nitrophenol	ND	ug/L	10	1.5	EPA-8270C	ND	A10	1
Pentachlorophenol	ND	ug/L	50	2.0	EPA-8270C	ND	A10	1
Phenol	ND	ug/L	10	1.0	EPA-8270C	ND	A10	1
2,4,5-Trichlorophenol	ND	ug/L	25	1.0	EPA-8270C	ND	A10	1
2,4,6-Trichlorophenol	ND	ug/L	25	1.0	EPA-8270C	ND	A10	1
Pyridine	ND	ug/L	50	8.0	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	34.8	%	30 - 120 (LCL - UCL)	EPA-8270C				1
Phenol-d5 (Surrogate)	35.4	%	12 - 110 (LCL - UCL)	EPA-8270C				1
Nitrobenzene-d5 (Surrogate)	56.2	%	50 - 130 (LCL - UCL)	EPA-8270C				1
2-Fluorobiphenyl (Surrogate)	64.9	%	55 - 125 (LCL - UCL)	EPA-8270C				1
2,4,6-Tribromophenol (Surrogate)	61.5	%	40 - 150 (LCL - UCL)	EPA-8270C				1
p-Terphenyl-d14 (Surrogate)	58.5	%	40 - 150 (LCL - UCL)	EPA-8270C				1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	09/25/23 15:30	09/28/23 04:21	CMM	MS-B2	5	B174351	EPA 3510C

DCN = Data Continuation Number

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Concord, CA 94520

**Reported:** 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Metals Analysis

BCL Sample ID:	2317918-08	Client Sample Name:	SB-5-W, 9/18/2023 3:40:00PM, Scott B					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.17	ug/L	0.20	0.13	EPA-7199	ND	J,S05	1
Total Arsenic	ND	ug/L	50	7.8	EPA-6010B	ND		2
<b>Total Barium</b>	<b>180</b>	<b>ug/L</b>	<b>10</b>	<b>3.5</b>	<b>EPA-6010B</b>	ND		2
Total Cadmium	ND	ug/L	10	1.1	EPA-6010B	ND		2
<b>Total Chromium</b>	<b>41</b>	<b>ug/L</b>	<b>10</b>	<b>1.1</b>	<b>EPA-6010B</b>	1.2		2
Total Lead	ND	ug/L	50	4.0	EPA-6010B	ND		2
<b>Total Mercury</b>	<b>0.092</b>	<b>ug/L</b>	<b>0.20</b>	<b>0.022</b>	<b>EPA-7470A</b>	ND	<b>J</b>	3
Total Selenium	ND	ug/L	100	15	EPA-6010B	ND		2
Total Silver	ND	ug/L	10	1.9	EPA-6010B	ND		2

DCN	Method	Prep Date	Run Date/Time			Instrument	Dilution	QC	
			Analyst	Batch ID	Prep Method				
1	EPA-7199	09/19/23 17:00	09/19/23 18:34	ANN	IC11	1	B174262	No Prep	
2	EPA-6010B	09/22/23 17:20	10/05/23 18:49	ARD	PE-OP4	1	B174539	EPA 3010A	
3	EPA-7470A	09/28/23 08:45	09/28/23 13:33	MG2	CETAC4	1	B174799	EPA 7470A	

DCN = Data Continuation Number

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174357</b>							
Benzene	B174357-BLK1	ND	ug/L	0.50	0.083		1
Bromobenzene	B174357-BLK1	ND	ug/L	0.50	0.13		1
Bromochloromethane	B174357-BLK1	ND	ug/L	0.50	0.24		1
Bromodichloromethane	B174357-BLK1	ND	ug/L	0.50	0.14		1
Bromoform	B174357-BLK1	ND	ug/L	0.50	0.27		1
Bromomethane	B174357-BLK1	ND	ug/L	1.0	0.25		1
n-Butylbenzene	B174357-BLK1	ND	ug/L	0.50	0.11		1
sec-Butylbenzene	B174357-BLK1	ND	ug/L	0.50	0.15		1
tert-Butylbenzene	B174357-BLK1	ND	ug/L	0.50	0.13		1
Carbon tetrachloride	B174357-BLK1	ND	ug/L	0.50	0.18		1
Chlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.093		1
Chloroethane	B174357-BLK1	ND	ug/L	0.50	0.14		1
Chloroform	B174357-BLK1	ND	ug/L	0.50	0.12		1
Chloromethane	B174357-BLK1	ND	ug/L	0.50	0.14		1
2-Chlorotoluene	B174357-BLK1	ND	ug/L	0.50	0.20		1
4-Chlorotoluene	B174357-BLK1	ND	ug/L	0.50	0.15		1
Dibromochloromethane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dibromo-3-chloropropane	B174357-BLK1	ND	ug/L	1.0	0.44		1
1,2-Dibromoethane	B174357-BLK1	ND	ug/L	0.50	0.16		1
Dibromomethane	B174357-BLK1	ND	ug/L	0.50	0.24		1
1,2-Dichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.072		1
1,3-Dichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.15		1
1,4-Dichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.062		1
Dichlorodifluoromethane	B174357-BLK1	ND	ug/L	0.50	0.099		1
1,1-Dichloroethane	B174357-BLK1	ND	ug/L	0.50	0.11		1
1,2-Dichloroethane	B174357-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B174357-BLK1	ND	ug/L	0.50	0.18		1
cis-1,2-Dichloroethene	B174357-BLK1	ND	ug/L	0.50	0.085		1
trans-1,2-Dichloroethene	B174357-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloropropane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,3-Dichloropropane	B174357-BLK1	ND	ug/L	0.50	0.086		1
2,2-Dichloropropane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,1-Dichloropropene	B174357-BLK1	ND	ug/L	0.50	0.085		1
cis-1,3-Dichloropropene	B174357-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174357</b>							
trans-1,3-Dichloropropene	B174357-BLK1	ND	ug/L	0.50	0.079		1
Ethylbenzene	B174357-BLK1	ND	ug/L	0.50	0.098		1
Hexachlorobutadiene	B174357-BLK1	ND	ug/L	0.50	0.17		1
Isopropylbenzene	B174357-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B174357-BLK1	ND	ug/L	0.50	0.12		1
Methylene chloride	B174357-BLK1	ND	ug/L	1.0	0.48		1
Methyl t-butyl ether	B174357-BLK1	ND	ug/L	0.50	0.11		1
Naphthalene	B174357-BLK1	ND	ug/L	0.50	0.36		1
n-Propylbenzene	B174357-BLK1	ND	ug/L	0.50	0.11		1
Styrene	B174357-BLK1	ND	ug/L	0.50	0.068		1
1,1,1,2-Tetrachloroethane	B174357-BLK1	ND	ug/L	0.50	0.18		1
1,1,2,2-Tetrachloroethane	B174357-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B174357-BLK1	ND	ug/L	0.50	0.13		1
Toluene	B174357-BLK1	ND	ug/L	0.50	0.093		1
1,2,3-Trichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.16		1
1,2,4-Trichlorobenzene	B174357-BLK1	ND	ug/L	0.50	0.19		1
1,1,1-Trichloroethane	B174357-BLK1	ND	ug/L	0.50	0.11		1
1,1,2-Trichloroethane	B174357-BLK1	ND	ug/L	0.50	0.16		1
Trichloroethene	B174357-BLK1	ND	ug/L	0.50	0.085		1
Trichlorofluoromethane	B174357-BLK1	ND	ug/L	0.50	0.13		1
1,2,3-Trichloropropane	B174357-BLK1	ND	ug/L	1.0	0.24		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B174357-BLK1	ND	ug/L	0.50	0.15		1
1,2,4-Trimethylbenzene	B174357-BLK1	ND	ug/L	0.50	0.12		1
1,3,5-Trimethylbenzene	B174357-BLK1	ND	ug/L	0.50	0.12		1
Vinyl chloride	B174357-BLK1	ND	ug/L	0.50	0.12		1
Total Xylenes	B174357-BLK1	ND	ug/L	1.0	0.36		1
p- & m-Xylenes	B174357-BLK1	ND	ug/L	0.50	0.28		1
o-Xylene	B174357-BLK1	ND	ug/L	0.50	0.082		1
1,2-Dichloroethane-d4 (Surrogate)	B174357-BLK1	87.9	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B174357-BLK1	96.3	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B174357-BLK1	96.3	%	80 - 120 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174357-BLK1	PB	EPA-8260B	09/20/23	09/20/23 19:35	RCC	MS-V21	1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		
								Percent Recovery	RPD	Lab Quals
QC Batch ID: B174357										
Benzene	B174357-BS1	LCS	26.380	25.000	ug/L	106		70 - 130		1
Bromodichloromethane	B174357-BS1	LCS	28.080	25.000	ug/L	112		70 - 130		1
Chlorobenzene	B174357-BS1	LCS	27.500	25.000	ug/L	110		70 - 130		1
Chloroethane	B174357-BS1	LCS	26.830	25.000	ug/L	107		70 - 130		1
1,4-Dichlorobenzene	B174357-BS1	LCS	29.200	25.000	ug/L	117		70 - 130		1
1,1-Dichloroethane	B174357-BS1	LCS	26.170	25.000	ug/L	105		70 - 130		1
1,1-Dichloroethene	B174357-BS1	LCS	27.460	25.000	ug/L	110		70 - 130		1
Toluene	B174357-BS1	LCS	27.470	25.000	ug/L	110		70 - 130		1
Trichloroethene	B174357-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		1
1,2-Dichloroethane-d4 (Surrogate)	B174357-BS1	LCS	10.030	10.000	ug/L	100		75 - 125		1
Toluene-d8 (Surrogate)	B174357-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120		1
4-Bromofluorobenzene (Surrogate)	B174357-BS1	LCS	10.990	10.000	ug/L	110		80 - 120		1

Run #	QC Sample ID	QC Type	Method	Run				
				Prep Date	Date Time	Analyst	Instrument	
1	B174357-BS1	LCS	EPA-8260B	09/20/23	09/20/23 17:23	RCC	ms-v21	1

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**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			R#	
								Percent Recovery	RPD	Percent Recovery		
<b>QC Batch ID: B174357</b>		Used client sample: N										
Benzene	MS	2318002-02	ND	20.310	25.000	ug/L		81.2	20	70 - 130	1	
	MSD	2318002-02	ND	20.090	25.000	ug/L	1.1	80.4	20	70 - 130	2	
Bromodichloromethane	MS	2318002-02	ND	26.980	25.000	ug/L		108	20	70 - 130	1	
	MSD	2318002-02	ND	25.230	25.000	ug/L	6.7	101	20	70 - 130	2	
Chlorobenzene	MS	2318002-02	ND	27.730	25.000	ug/L		111	20	70 - 130	1	
	MSD	2318002-02	ND	26.140	25.000	ug/L	5.9	105	20	70 - 130	2	
Chloroethane	MS	2318002-02	ND	26.590	25.000	ug/L		106	20	70 - 130	1	
	MSD	2318002-02	ND	26.430	25.000	ug/L	0.6	106	20	70 - 130	2	
1,4-Dichlorobenzene	MS	2318002-02	ND	29.410	25.000	ug/L		118	20	70 - 130	1	
	MSD	2318002-02	ND	28.200	25.000	ug/L	4.2	113	20	70 - 130	2	
1,1-Dichloroethane	MS	2318002-02	ND	19.490	25.000	ug/L		78.0	20	70 - 130	1	
	MSD	2318002-02	ND	19.240	25.000	ug/L	1.3	77.0	20	70 - 130	2	
1,1-Dichloroethene	MS	2318002-02	ND	20.990	25.000	ug/L		84.0	20	70 - 130	1	
	MSD	2318002-02	ND	20.980	25.000	ug/L	0.0	83.9	20	70 - 130	2	
Toluene	MS	2318002-02	ND	24.740	25.000	ug/L		99.0	20	70 - 130	1	
	MSD	2318002-02	ND	24.110	25.000	ug/L	2.6	96.4	20	70 - 130	2	
Trichloroethene	MS	2318002-02	ND	22.230	25.000	ug/L		88.9	20	70 - 130	1	
	MSD	2318002-02	ND	21.110	25.000	ug/L	5.2	84.4	20	70 - 130	2	
1,2-Dichloroethane-d4 (Surrogate)	MS	2318002-02	ND	11.780	10.000	ug/L		118	20	75 - 125	1	
	MSD	2318002-02	ND	11.570	10.000	ug/L	1.8	116	20	75 - 125	2	
Toluene-d8 (Surrogate)	MS	2318002-02	ND	10.150	10.000	ug/L		102	20	80 - 120	1	
	MSD	2318002-02	ND	10.020	10.000	ug/L	1.3	100	20	80 - 120	2	
4-Bromofluorobenzene (Surrogate)	MS	2318002-02	ND	11.250	10.000	ug/L		112	20	80 - 120	1	
	MSD	2318002-02	ND	10.920	10.000	ug/L	3.0	109	20	80 - 120	2	

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time		Analyst	Instrument	Dilution
					Date	Time			
1	B174357-MS1	MS	EPA-8260B	09/20/23	09/20/23	22:38	RCC	MS-V21	1
2	B174357-MSD1	MSD	EPA-8260B	09/20/23	09/20/23	23:05	RCC	MS-V21	1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174618</b>							
Benzene	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
Bromobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00087		1
Bromochloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00081		1
Bromodichloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00078		1
Bromoform	B174618-BLK1	ND	mg/kg	0.0050	0.00070		1
Bromomethane	B174618-BLK1	ND	mg/kg	0.0050	0.0017		1
n-Butylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00076		1
sec-Butylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00071		1
tert-Butylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00085		1
Carbon tetrachloride	B174618-BLK1	ND	mg/kg	0.0050	0.00078		1
Chlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00077		1
Chloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.0011		1
Chloroform	B174618-BLK1	ND	mg/kg	0.0050	0.00090		1
Chloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.0011		1
2-Chlorotoluene	B174618-BLK1	ND	mg/kg	0.0050	0.00087		1
4-Chlorotoluene	B174618-BLK1	ND	mg/kg	0.0050	0.00070		1
Dibromochloromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
1,2-Dibromo-3-chloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00096		1
1,2-Dibromoethane	B174618-BLK1	ND	mg/kg	0.0050	0.00082		1
Dibromomethane	B174618-BLK1	ND	mg/kg	0.0050	0.0014		1
1,2-Dichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00079		1
1,3-Dichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00073		1
1,4-Dichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00073		1
Dichlorodifluoromethane	B174618-BLK1	ND	mg/kg	0.0050	0.00079		1
1,1-Dichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00064		1
1,2-Dichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00073		1
1,1-Dichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.0011		1
cis-1,2-Dichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.00054		1
trans-1,2-Dichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.0037		1
1,2-Dichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3-Dichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
2,2-Dichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1-Dichloropropene	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
cis-1,3-Dichloropropene	B174618-BLK1	ND	mg/kg	0.0050	0.00058		1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174618</b>							
trans-1,3-Dichloropropene	B174618-BLK1	ND	mg/kg	0.0050	0.00066		1
Ethylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00069		1
Hexachlorobutadiene	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
Isopropylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
p-Isopropyltoluene	B174618-BLK1	ND	mg/kg	0.0050	0.00059		1
Methylene chloride	B174618-BLK1	ND	mg/kg	0.010	0.0011		1
Methyl t-butyl ether	B174618-BLK1	ND	mg/kg	0.0050	0.00056		1
Naphthalene	B174618-BLK1	ND	mg/kg	0.0050	0.00099		1
n-Propylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00071		1
Styrene	B174618-BLK1	ND	mg/kg	0.0050	0.00062		1
1,1,1,2-Tetrachloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00095		1
1,1,2,2-Tetrachloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00084		1
Tetrachloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.00097		1
Toluene	B174618-BLK1	ND	mg/kg	0.0050	0.00069		1
1,2,3-Trichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,4-Trichlorobenzene	B174618-BLK1	ND	mg/kg	0.0050	0.0014		1
1,1,1-Trichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1,2-Trichloroethane	B174618-BLK1	ND	mg/kg	0.0050	0.00094		1
Trichloroethene	B174618-BLK1	ND	mg/kg	0.0050	0.00074		1
Trichlorofluoromethane	B174618-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,3-Trichloropropane	B174618-BLK1	ND	mg/kg	0.0050	0.0019		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B174618-BLK1	ND	mg/kg	0.0050	0.0010		1
1,2,4-Trimethylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3,5-Trimethylbenzene	B174618-BLK1	ND	mg/kg	0.0050	0.00066		1
Vinyl chloride	B174618-BLK1	ND	mg/kg	0.0050	0.00059		1
Total Xylenes	B174618-BLK1	ND	mg/kg	0.010	0.0025		1
p- & m-Xylenes	B174618-BLK1	ND	mg/kg	0.0050	0.0015		1
o-Xylene	B174618-BLK1	ND	mg/kg	0.0050	0.00093		1
1,2-Dichloroethane-d4 (Surrogate)	B174618-BLK1	113	%	70 - 121 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B174618-BLK1	101	%	81 - 117 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B174618-BLK1	102	%	74 - 121 (LCL - UCL)			1
<b>QC Batch ID: B174684</b>							
Benzene	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174684</b>							
Bromobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00087		2
Bromochloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00081		2
Bromodichloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00078		2
Bromoform	B174684-BLK1	ND	mg/kg	0.0050	0.00070		2
Bromomethane	B174684-BLK1	ND	mg/kg	0.0050	0.0017		2
n-Butylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00076		2
sec-Butylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00071		2
tert-Butylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00085		2
Carbon tetrachloride	B174684-BLK1	ND	mg/kg	0.0050	0.00078		2
Chlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00077		2
Chloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.0011		2
Chloroform	B174684-BLK1	ND	mg/kg	0.0050	0.00090		2
Chloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.0011		2
2-Chlorotoluene	B174684-BLK1	ND	mg/kg	0.0050	0.00087		2
4-Chlorotoluene	B174684-BLK1	ND	mg/kg	0.0050	0.00070		2
Dibromochloromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
1,2-Dibromo-3-chloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00096		2
1,2-Dibromoethane	B174684-BLK1	ND	mg/kg	0.0050	0.00082		2
Dibromomethane	B174684-BLK1	ND	mg/kg	0.0050	0.0014		2
1,2-Dichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00079		2
1,3-Dichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00073		2
1,4-Dichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00073		2
Dichlorodifluoromethane	B174684-BLK1	ND	mg/kg	0.0050	0.00079		2
1,1-Dichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00064		2
1,2-Dichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00073		2
1,1-Dichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.0011		2
cis-1,2-Dichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.00054		2
trans-1,2-Dichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.0037		2
1,2-Dichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
1,3-Dichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
2,2-Dichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
1,1-Dichloropropene	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
cis-1,3-Dichloropropene	B174684-BLK1	ND	mg/kg	0.0050	0.00058		2
trans-1,3-Dichloropropene	B174684-BLK1	ND	mg/kg	0.0050	0.00066		2

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174684</b>							
Ethylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00069		2
Hexachlorobutadiene	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
Isopropylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
p-Isopropyltoluene	B174684-BLK1	ND	mg/kg	0.0050	0.00059		2
Methylene chloride	B174684-BLK1	ND	mg/kg	0.010	0.0011		2
Methyl t-butyl ether	B174684-BLK1	ND	mg/kg	0.0050	0.00056		2
Naphthalene	B174684-BLK1	ND	mg/kg	0.0050	0.00099		2
n-Propylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00071		2
Styrene	B174684-BLK1	ND	mg/kg	0.0050	0.00062		2
1,1,1,2-Tetrachloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00095		2
1,1,2,2-Tetrachloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00084		2
Tetrachloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.00097		2
Toluene	B174684-BLK1	ND	mg/kg	0.0050	0.00069		2
1,2,3-Trichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.0015		2
1,2,4-Trichlorobenzene	B174684-BLK1	ND	mg/kg	0.0050	0.0014		2
1,1,1-Trichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00067		2
1,1,2-Trichloroethane	B174684-BLK1	ND	mg/kg	0.0050	0.00094		2
Trichloroethene	B174684-BLK1	ND	mg/kg	0.0050	0.00074		2
Trichlorofluoromethane	B174684-BLK1	ND	mg/kg	0.0050	0.0015		2
1,2,3-Trichloropropane	B174684-BLK1	ND	mg/kg	0.0050	0.0019		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B174684-BLK1	ND	mg/kg	0.0050	0.0010		2
1,2,4-Trimethylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00080		2
1,3,5-Trimethylbenzene	B174684-BLK1	ND	mg/kg	0.0050	0.00066		2
Vinyl chloride	B174684-BLK1	ND	mg/kg	0.0050	0.00059		2
Total Xylenes	B174684-BLK1	ND	mg/kg	0.010	0.0025		2
p- & m-Xylenes	B174684-BLK1	ND	mg/kg	0.0050	0.0015		2
o-Xylene	B174684-BLK1	ND	mg/kg	0.0050	0.00093		2
1,2-Dichloroethane-d4 (Surrogate)	B174684-BLK1	101	%		70 - 121 (LCL - UCL)		2
Toluene-d8 (Surrogate)	B174684-BLK1	98.6	%		81 - 117 (LCL - UCL)		2
4-Bromofluorobenzene (Surrogate)	B174684-BLK1	100	%		74 - 121 (LCL - UCL)		2

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Run				Dilution
				Prep Date	Date Time	Analyst	Instrument	
1	B174618-BLK1	PB	EPA-8260B	09/26/23	09/26/23 11:37	EAB	MS-V17	1
2	B174684-BLK1	PB	EPA-8260B	09/26/23	09/26/23 21:42	EAB	MS-V17	1

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**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
<b>QC Batch ID: B174618</b>									
Benzene	B174618-BS1	LCS	0.11963	0.12500	mg/kg	95.7	70 - 130		1
Bromodichloromethane	B174618-BS1	LCS	0.14374	0.12500	mg/kg	115	70 - 130		1
Chlorobenzene	B174618-BS1	LCS	0.12678	0.12500	mg/kg	101	70 - 130		1
Chloroethane	B174618-BS1	LCS	0.10405	0.12500	mg/kg	83.2	70 - 130		1
1,4-Dichlorobenzene	B174618-BS1	LCS	0.14307	0.12500	mg/kg	114	70 - 130		1
1,1-Dichloroethane	B174618-BS1	LCS	0.11799	0.12500	mg/kg	94.4	70 - 130		1
1,1-Dichloroethene	B174618-BS1	LCS	0.12772	0.12500	mg/kg	102	70 - 130		1
Toluene	B174618-BS1	LCS	0.12786	0.12500	mg/kg	102	70 - 130		1
Trichloroethene	B174618-BS1	LCS	0.13159	0.12500	mg/kg	105	70 - 130		1
1,2-Dichloroethane-d4 (Surrogate)	B174618-BS1	LCS	0.056550	0.050000	mg/kg	113	70 - 121		1
Toluene-d8 (Surrogate)	B174618-BS1	LCS	0.051380	0.050000	mg/kg	103	81 - 117		1
4-Bromofluorobenzene (Surrogate)	B174618-BS1	LCS	0.052790	0.050000	mg/kg	106	74 - 121		1
<b>QC Batch ID: B174684</b>									
Benzene	B174684-BS1	LCS	0.12223	0.12500	mg/kg	97.8	70 - 130		2
Bromodichloromethane	B174684-BS1	LCS	0.13981	0.12500	mg/kg	112	70 - 130		2
Chlorobenzene	B174684-BS1	LCS	0.13227	0.12500	mg/kg	106	70 - 130		2
Chloroethane	B174684-BS1	LCS	0.10977	0.12500	mg/kg	87.8	70 - 130		2
1,4-Dichlorobenzene	B174684-BS1	LCS	0.14323	0.12500	mg/kg	115	70 - 130		2
1,1-Dichloroethane	B174684-BS1	LCS	0.11919	0.12500	mg/kg	95.4	70 - 130		2
1,1-Dichloroethene	B174684-BS1	LCS	0.12812	0.12500	mg/kg	102	70 - 130		2
Toluene	B174684-BS1	LCS	0.13467	0.12500	mg/kg	108	70 - 130		2
Trichloroethene	B174684-BS1	LCS	0.13919	0.12500	mg/kg	111	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	B174684-BS1	LCS	0.049240	0.050000	mg/kg	98.5	70 - 121		2
Toluene-d8 (Surrogate)	B174684-BS1	LCS	0.050410	0.050000	mg/kg	101	81 - 117		2
4-Bromofluorobenzene (Surrogate)	B174684-BS1	LCS	0.051740	0.050000	mg/kg	103	74 - 121		2

Run #	QC Sample ID	QC Type	Method	Run		Analyst	Instrument	Dilution
				Prep Date	Date Time			
1	B174618-BS1	LCS	EPA-8260B	09/26/23	09/26/23 11:59	EAB	MS-V17	1
2	B174684-BS1	LCS	EPA-8260B	09/26/23	09/26/23 22:04	EAB	MS-V17	1

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Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			Lab Quals	R#
								Percent Recovery	RPD	Percent Recovery		
<b>QC Batch ID: B174618</b>		Used client sample: N										
Benzene	MS	2318247-01	ND	0.11295	0.12500	mg/kg		90.4	20	70 - 130	1	
	MSD	2318247-01	ND	0.092560	0.12500	mg/kg	19.8	74.0	20	70 - 130	2	
Bromodichloromethane	MS	2318247-01	ND	0.13266	0.12500	mg/kg		106	20	70 - 130	1	
	MSD	2318247-01	ND	0.10557	0.12500	mg/kg	22.7	84.5	20	70 - 130	Q02	2
Chlorobenzene	MS	2318247-01	ND	0.10017	0.12500	mg/kg		80.1	20	70 - 130	1	
	MSD	2318247-01	ND	0.077860	0.12500	mg/kg	25.1	62.3	20	70 - 130	Q02,Q 03	2
Chloroethane	MS	2318247-01	ND	0.10477	0.12500	mg/kg		83.8	20	70 - 130	1	
	MSD	2318247-01	ND	0.087610	0.12500	mg/kg	17.8	70.1	20	70 - 130	2	
1,4-Dichlorobenzene	MS	2318247-01	ND	0.069920	0.12500	mg/kg		55.9	20	70 - 130	Q03	1
	MSD	2318247-01	ND	0.052000	0.12500	mg/kg	29.4	41.6	20	70 - 130	Q02,Q 03	2
1,1-Dichloroethane	MS	2318247-01	ND	0.11699	0.12500	mg/kg		93.6	20	70 - 130	1	
	MSD	2318247-01	ND	0.096280	0.12500	mg/kg	19.4	77.0	20	70 - 130	2	
1,1-Dichloroethene	MS	2318247-01	ND	0.12198	0.12500	mg/kg		97.6	20	70 - 130	1	
	MSD	2318247-01	ND	0.099820	0.12500	mg/kg	20.0	79.9	20	70 - 130	2	
Toluene	MS	2318247-01	ND	0.10467	0.12500	mg/kg		83.7	20	70 - 130	1	
	MSD	2318247-01	ND	0.083270	0.12500	mg/kg	22.8	66.6	20	70 - 130	Q02,Q 03	2
Trichloroethene	MS	2318247-01	ND	0.11122	0.12500	mg/kg		89.0	20	70 - 130	1	
	MSD	2318247-01	ND	0.088540	0.12500	mg/kg	22.7	70.8	20	70 - 130	Q02	2
1,2-Dichloroethane-d4 (Surrogate)	MS	2318247-01	ND	0.055900	0.050000	mg/kg		112	20	70 - 121	1	
	MSD	2318247-01	ND	0.055760	0.050000	mg/kg	0.3	112	20	70 - 121	2	
Toluene-d8 (Surrogate)	MS	2318247-01	ND	0.050010	0.050000	mg/kg		100	20	81 - 117	1	
	MSD	2318247-01	ND	0.049780	0.050000	mg/kg	0.5	99.6	20	81 - 117	2	
4-Bromofluorobenzene (Surrogate)	MS	2318247-01	ND	0.050720	0.050000	mg/kg		101	20	74 - 121	1	
	MSD	2318247-01	ND	0.050270	0.050000	mg/kg	0.9	101	20	74 - 121	2	
<b>QC Batch ID: B174684</b>		Used client sample: Y - Description: SB-1-4', 09/18/2023 13:40										
Benzene	MS	2317918-04	ND	0.098120	0.12500	mg/kg		78.5	20	70 - 130	3	
	MSD	2317918-04	ND	0.093550	0.12500	mg/kg	4.8	74.8	20	70 - 130	4	
Bromodichloromethane	MS	2317918-04	ND	0.10547	0.12500	mg/kg		84.4	20	70 - 130	3	
	MSD	2317918-04	ND	0.097390	0.12500	mg/kg	8.0	77.9	20	70 - 130	4	
Chlorobenzene	MS	2317918-04	ND	0.091050	0.12500	mg/kg		72.8	20	70 - 130	3	
	MSD	2317918-04	ND	0.084050	0.12500	mg/kg	8.0	67.2	20	70 - 130	Q03	4
Chloroethane	MS	2317918-04	ND	0.092350	0.12500	mg/kg		73.9	20	70 - 130	3	
	MSD	2317918-04	ND	0.089640	0.12500	mg/kg	3.0	71.7	20	70 - 130	4	
1,4-Dichlorobenzene	MS	2317918-04	ND	0.067630	0.12500	mg/kg		54.1	20	70 - 130	Q03	3
	MSD	2317918-04	ND	0.059610	0.12500	mg/kg	12.6	47.7	20	70 - 130	Q03	4

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Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Volatile Organic Analysis (EPA Method 8260B/5035)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			
								Percent Recovery	Percent Recovery	Lab Quals R#	
<b>QC Batch ID: B174684</b>		Used client sample: Y - Description: SB-1-4', 09/18/2023 13:40									
1,1-Dichloroethane	MS	2317918-04	ND	0.099200	0.12500	mg/kg		79.4	70 - 130	3	
	MSD	2317918-04	ND	0.094320	0.12500	mg/kg	5.0	75.5	20	70 - 130	
1,1-Dichloroethene	MS	2317918-04	ND	0.10794	0.12500	mg/kg		86.4	70 - 130	3	
	MSD	2317918-04	ND	0.10525	0.12500	mg/kg	2.5	84.2	20	70 - 130	
Toluene	MS	2317918-04	0.0017778	0.10325	0.12500	mg/kg		81.2	70 - 130	3	
	MSD	2317918-04	0.0017778	0.098510	0.12500	mg/kg	4.7	77.4	20	70 - 130	
Trichloroethene	MS	2317918-04	ND	0.10928	0.12500	mg/kg		87.4	70 - 130	3	
	MSD	2317918-04	ND	0.10593	0.12500	mg/kg	3.1	84.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2317918-04	ND	0.048460	0.050000	mg/kg		96.9	70 - 121	3	
	MSD	2317918-04	ND	0.048090	0.050000	mg/kg	0.8	96.2	70 - 121		
Toluene-d8 (Surrogate)	MS	2317918-04	ND	0.050070	0.050000	mg/kg		100	81 - 117	3	
	MSD	2317918-04	ND	0.049900	0.050000	mg/kg	0.3	99.8	81 - 117		
4-Bromofluorobenzene (Surrogate)	MS	2317918-04	ND	0.051350	0.050000	mg/kg		103	74 - 121	3	
	MSD	2317918-04	ND	0.051640	0.050000	mg/kg	0.6	103	74 - 121		

Run #	QC Sample ID	QC Type	Method	Run				
				Prep Date	Date Time	Analyst	Instrument	Dilution
1	B174618-MS1	MS	EPA-8260B	09/26/23	09/26/23 12:20	EAB	MS-V17	1
2	B174618-MSD1	MSD	EPA-8260B	09/26/23	09/26/23 12:42	EAB	MS-V17	1
3	B174684-MS1	MS	EPA-8260B	09/26/23	09/26/23 22:26	EAB	MS-V17	1
4	B174684-MSD1	MSD	EPA-8260B	09/26/23	09/26/23 22:47	EAB	MS-V17	1

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174351</b>							
Acenaphthene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Acenaphthylene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Aldrin	B174351-BLK1	ND	ug/L	2.0	0.23		1
Aniline	B174351-BLK1	ND	ug/L	5.0	0.28		1
Anthracene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Benzidine	B174351-BLK1	ND	ug/L	20	1.6		1
Benzo[a]anthracene	B174351-BLK1	ND	ug/L	2.0	0.21		1
Benzo[b]fluoranthene	B174351-BLK1	ND	ug/L	2.0	0.24		1
Benzo[k]fluoranthene	B174351-BLK1	ND	ug/L	2.0	0.30		1
Benzo[a]pyrene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Benzo[g,h,i]perylene	B174351-BLK1	ND	ug/L	2.0	0.33		1
Benzoic acid	B174351-BLK1	ND	ug/L	10	0.52		1
Benzyl alcohol	B174351-BLK1	ND	ug/L	2.0	0.20		1
Benzyl butyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
alpha-BHC	B174351-BLK1	ND	ug/L	2.0	0.20		1
beta-BHC	B174351-BLK1	ND	ug/L	2.0	0.20		1
delta-BHC	B174351-BLK1	ND	ug/L	2.0	0.20		1
gamma-BHC (Lindane)	B174351-BLK1	ND	ug/L	2.0	0.20		1
bis(2-Chloroethoxy)methane	B174351-BLK1	ND	ug/L	2.0	0.20		1
bis(2-Chloroethyl) ether	B174351-BLK1	ND	ug/L	2.0	0.31		1
bis(2-Chloroisopropyl)ether	B174351-BLK1	ND	ug/L	2.0	0.20		1
bis(2-Ethylhexyl)phthalate	B174351-BLK1	ND	ug/L	4.0	0.20		1
4-Bromophenyl phenyl ether	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Chloroaniline	B174351-BLK1	ND	ug/L	2.0	1.1		1
2-Chloronaphthalene	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Chlorophenyl phenyl ether	B174351-BLK1	ND	ug/L	2.0	0.20		1
Chrysene	B174351-BLK1	ND	ug/L	2.0	0.20		1
4,4'-DDD	B174351-BLK1	ND	ug/L	2.0	0.26		1
4,4'-DDE	B174351-BLK1	ND	ug/L	3.0	0.24		1
4,4'-DDT	B174351-BLK1	ND	ug/L	2.0	0.22		1
Dibenzo[a,h]anthracene	B174351-BLK1	ND	ug/L	3.0	0.34		1
Dibenzofuran	B174351-BLK1	ND	ug/L	2.0	0.20		1
1,2-Dichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1
1,3-Dichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174351</b>							
1,4-Dichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.27		1
3,3-Dichlorobenzidine	B174351-BLK1	ND	ug/L	10	0.53		1
Dieldrin	B174351-BLK1	ND	ug/L	3.0	0.39		1
Diethyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
Dimethyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
Di-n-butyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.20		1
2,4-Dinitrotoluene	B174351-BLK1	ND	ug/L	2.0	0.40		1
2,6-Dinitrotoluene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Di-n-octyl phthalate	B174351-BLK1	ND	ug/L	2.0	0.21		1
1,2-Diphenylhydrazine	B174351-BLK1	ND	ug/L	2.0	0.20		1
Endosulfan I	B174351-BLK1	ND	ug/L	10	0.31		1
Endosulfan II	B174351-BLK1	ND	ug/L	10	0.30		1
Endosulfan sulfate	B174351-BLK1	ND	ug/L	3.0	0.23		1
Endrin	B174351-BLK1	ND	ug/L	2.0	0.38		1
Endrin aldehyde	B174351-BLK1	ND	ug/L	10	0.44		1
Fluoranthene	B174351-BLK1	ND	ug/L	2.0	0.28		1
Fluorene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Heptachlor	B174351-BLK1	ND	ug/L	2.0	0.20		1
Heptachlor epoxide	B174351-BLK1	ND	ug/L	2.0	0.26		1
Hexachlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.25		1
Hexachlorobutadiene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Hexachlorocyclopentadiene	B174351-BLK1	ND	ug/L	2.0	0.31		1
Hexachloroethane	B174351-BLK1	ND	ug/L	2.0	0.20		1
Indeno[1,2,3-cd]pyrene	B174351-BLK1	ND	ug/L	2.0	0.29		1
Isophorone	B174351-BLK1	ND	ug/L	2.0	0.20		1
2-Methylnaphthalene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Naphthalene	B174351-BLK1	ND	ug/L	2.0	0.20		1
2-Naphthylamine	B174351-BLK1	ND	ug/L	20	1.3		1
2-Nitroaniline	B174351-BLK1	ND	ug/L	2.0	0.20		1
3-Nitroaniline	B174351-BLK1	ND	ug/L	2.0	0.22		1
4-Nitroaniline	B174351-BLK1	ND	ug/L	5.0	0.38		1
Nitrobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1
N-Nitrosodimethylamine	B174351-BLK1	ND	ug/L	2.0	1.2		1
N-Nitrosodi-N-propylamine	B174351-BLK1	ND	ug/L	2.0	0.21		1

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174351</b>							
N-Nitrosodiphenylamine	B174351-BLK1	ND	ug/L	2.0	0.20		1
Phenanthrene	B174351-BLK1	ND	ug/L	2.0	0.20		1
Pyrene	B174351-BLK1	ND	ug/L	2.0	0.22		1
1,2,4-Trichlorobenzene	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Chloro-3-methylphenol	B174351-BLK1	ND	ug/L	5.0	0.20		1
2-Chlorophenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
2,4-Dichlorophenol	B174351-BLK1	ND	ug/L	2.0	0.23		1
2,4-Dimethylphenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
4,6-Dinitro-2-methylphenol	B174351-BLK1	ND	ug/L	10	0.24		1
2,4-Dinitrophenol	B174351-BLK1	ND	ug/L	10	0.20		1
2-Methylphenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
3- & 4-Methylphenol	B174351-BLK1	ND	ug/L	2.0	0.40		1
2-Nitrophenol	B174351-BLK1	ND	ug/L	2.0	0.20		1
4-Nitrophenol	B174351-BLK1	ND	ug/L	2.0	0.30		1
Pentachlorophenol	B174351-BLK1	ND	ug/L	10	0.40		1
Phenol	B174351-BLK1	ND	ug/L	2.0	0.21		1
2,4,5-Trichlorophenol	B174351-BLK1	ND	ug/L	5.0	0.20		1
2,4,6-Trichlorophenol	B174351-BLK1	ND	ug/L	5.0	0.20		1
Pyridine	B174351-BLK1	ND	ug/L	10	1.6		1
<b>2-Fluorophenol (Surrogate)</b>	<b>B174351-BLK1</b>	<b>56.8</b>	%	<b>30 - 120 (LCL - UCL)</b>			1
<b>Phenol-d5 (Surrogate)</b>	<b>B174351-BLK1</b>	<b>65.2</b>	%	<b>12 - 110 (LCL - UCL)</b>			1
<b>Nitrobenzene-d5 (Surrogate)</b>	<b>B174351-BLK1</b>	<b>70.7</b>	%	<b>50 - 130 (LCL - UCL)</b>			1
<b>2-Fluorobiphenyl (Surrogate)</b>	<b>B174351-BLK1</b>	<b>68.4</b>	%	<b>55 - 125 (LCL - UCL)</b>			1
<b>2,4,6-Tribromophenol (Surrogate)</b>	<b>B174351-BLK1</b>	<b>59.4</b>	%	<b>40 - 150 (LCL - UCL)</b>			1
<b>p-Terphenyl-d14 (Surrogate)</b>	<b>B174351-BLK1</b>	<b>86.1</b>	%	<b>40 - 150 (LCL - UCL)</b>			1
<b>QC Batch ID: B174941</b>							
Acenaphthene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Acenaphthylene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Aldrin	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Aniline	B174941-BLK1	ND	mg/kg	0.20	0.011		2
Anthracene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzidine	B174941-BLK1	ND	mg/kg	3.0	0.0093		2
Benzo[a]anthracene	B174941-BLK1	ND	mg/kg	0.10	0.0077		2

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174941</b>							
Benzo[b]fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzo[k]fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0082		2
Benzo[b+k]fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0082		2
Benzo[a]pyrene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzo[g,h,i]perylene	B174941-BLK1	ND	mg/kg	0.10	0.013		2
Benzoic acid	B174941-BLK1	ND	mg/kg	0.50	0.014		2
Benzyl alcohol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Benzyl butyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
alpha-BHC	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
beta-BHC	B174941-BLK1	ND	mg/kg	0.10	0.0075		2
delta-BHC	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
gamma-BHC (Lindane)	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
bis(2-Chloroethoxy)methane	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
bis(2-Chloroethyl) ether	B174941-BLK1	ND	mg/kg	0.10	0.0097		2
bis(2-Chloroisopropyl)ether	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
bis(2-Ethylhexyl)phthalate	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
4-Bromophenyl phenyl ether	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Chloroaniline	B174941-BLK1	ND	mg/kg	0.10	0.015		2
2-Chloronaphthalene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Chlorophenyl phenyl ether	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Chrysene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4,4'-DDD	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4,4'-DDE	B174941-BLK1	ND	mg/kg	0.10	0.0068		2
4,4'-DDT	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Dibenzo[a,h]anthracene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Dibenzofuran	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,2-Dichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,3-Dichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,4-Dichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
3,3-Dichlorobenzidine	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
Dieldrin	B174941-BLK1	ND	mg/kg	0.10	0.0077		2
Diethyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Dimethyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Di-n-butyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174941</b>							
2,4-Dinitrotoluene	B174941-BLK1	ND	mg/kg	0.10	0.0085		2
2,6-Dinitrotoluene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Di-n-octyl phthalate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,2-Diphenylhydrazine	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Endosulfan I	B174941-BLK1	ND	mg/kg	0.20	0.0088		2
Endosulfan II	B174941-BLK1	ND	mg/kg	0.20	0.0088		2
Endosulfan sulfate	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Endrin	B174941-BLK1	ND	mg/kg	0.20	0.0086		2
Endrin aldehyde	B174941-BLK1	ND	mg/kg	0.50	0.0070		2
Fluoranthene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Fluorene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Heptachlor	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Heptachlor epoxide	B174941-BLK1	ND	mg/kg	0.10	0.013		2
Hexachlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Hexachlorobutadiene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Hexachlorocyclopentadiene	B174941-BLK1	ND	mg/kg	0.10	0.015		2
Hexachloroethane	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Indeno[1,2,3-cd]pyrene	B174941-BLK1	ND	mg/kg	0.10	0.0069		2
Isophorone	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2-Methylnaphthalene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Naphthalene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2-Naphthylamine	B174941-BLK1	ND	mg/kg	3.0	0.036		2
2-Nitroaniline	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
3-Nitroaniline	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
4-Nitroaniline	B174941-BLK1	ND	mg/kg	0.20	0.011		2
Nitrobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
N-Nitrosodimethylamine	B174941-BLK1	ND	mg/kg	0.10	0.040		2
N-Nitrosodi-N-propylamine	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
N-Nitrosodiphenylamine	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Phenanthrene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
Pyrene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
1,2,4-Trichlorobenzene	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Chloro-3-methylphenol	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
2-Chlorophenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2

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Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
<b>QC Batch ID: B174941</b>							
2,4-Dichlorophenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2,4-Dimethylphenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4,6-Dinitro-2-methylphenol	B174941-BLK1	ND	mg/kg	0.50	0.0067		2
2,4-Dinitrophenol	B174941-BLK1	ND	mg/kg	0.50	0.0067		2
2-Methylphenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
3- & 4-Methylphenol	B174941-BLK1	ND	mg/kg	0.20	0.014		2
Total Methylphenol	B174941-BLK1	ND	mg/kg	0.20	0.021		2
2-Nitrophenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
4-Nitrophenol	B174941-BLK1	ND	mg/kg	0.20	0.018		2
Pentachlorophenol	B174941-BLK1	ND	mg/kg	0.20	0.017		2
Phenol	B174941-BLK1	ND	mg/kg	0.10	0.0067		2
2,4,5-Trichlorophenol	B174941-BLK1	ND	mg/kg	0.20	0.011		2
2,4,6-Trichlorophenol	B174941-BLK1	ND	mg/kg	0.20	0.0067		2
Pyridine	B174941-BLK1	ND	mg/kg	0.50	0.065		2
2-Fluorophenol (Surrogate)	B174941-BLK1	77.7	%	20 - 130 (LCL - UCL)			2
Phenol-d5 (Surrogate)	B174941-BLK1	84.5	%	30 - 130 (LCL - UCL)			2
Nitrobenzene-d5 (Surrogate)	B174941-BLK1	83.2	%	30 - 130 (LCL - UCL)			2
2-Fluorobiphenyl (Surrogate)	B174941-BLK1	84.0	%	30 - 140 (LCL - UCL)			2
2,4,6-Tribromophenol (Surrogate)	B174941-BLK1	63.8	%	20 - 150 (LCL - UCL)			2
p-Terphenyl-d14 (Surrogate)	B174941-BLK1	94.0	%	30 - 150 (LCL - UCL)			2

Run #	QC Sample ID	QC Type	Method	Run			
				Prep Date	Date Time	Analyst	Instrument
1	B174351-BLK1	PB	EPA-8270C	09/25/23	09/28/23 11:49	CMM	MS-B2
2	B174941-BLK1	PB	EPA-8270C	09/28/23	09/29/23 13:48	CMM	MS-B9

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4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits			Lab Quals	Run #
							Percent Recovery	RPD	RPD		
<b>QC Batch ID: B174351</b>											
Acenaphthene	B174351-BS1	LCS	46.950	50.000	ug/L	93.9	50 - 120			1	
	B174351-BSD1	LCSD	47.770	50.000	ug/L	95.5	1.7	50 - 120	30	2	
1,4-Dichlorobenzene	B174351-BS1	LCS	45.840	50.000	ug/L	91.7	50 - 120			1	
	B174351-BSD1	LCSD	46.120	50.000	ug/L	92.2	0.6	50 - 120	30	2	
2,4-Dinitrotoluene	B174351-BS1	LCS	47.850	50.000	ug/L	95.7	50 - 120			1	
	B174351-BSD1	LCSD	51.630	50.000	ug/L	103	7.6	50 - 120	30	2	
Hexachlorobenzene	B174351-BS1	LCS	43.300	50.000	ug/L	86.6	60 - 120			1	
	B174351-BSD1	LCSD	42.980	50.000	ug/L	86.0	0.7	60 - 120	30	2	
Hexachlorobutadiene	B174351-BS1	LCS	41.470	50.000	ug/L	82.9	40 - 110			1	
	B174351-BSD1	LCSD	40.510	50.000	ug/L	81.0	2.3	40 - 110	30	2	
Hexachloroethane	B174351-BS1	LCS	47.950	50.000	ug/L	95.9	40 - 120			1	
	B174351-BSD1	LCSD	48.290	50.000	ug/L	96.6	0.7	40 - 120	30	2	
Nitrobenzene	B174351-BS1	LCS	46.520	50.000	ug/L	93.0	50 - 120			1	
	B174351-BSD1	LCSD	46.060	50.000	ug/L	92.1	1.0	50 - 120	30	2	
N-Nitrosodi-N-propylamine	B174351-BS1	LCS	45.770	50.000	ug/L	91.5	50 - 120			1	
	B174351-BSD1	LCSD	49.370	50.000	ug/L	98.7	7.6	50 - 120	30	2	
Pyrene	B174351-BS1	LCS	48.040	50.000	ug/L	96.1	40 - 140			1	
	B174351-BSD1	LCSD	46.940	50.000	ug/L	93.9	2.3	40 - 140	30	2	
1,2,4-Trichlorobenzene	B174351-BS1	LCS	45.480	50.000	ug/L	91.0	45 - 120			1	
	B174351-BSD1	LCSD	44.840	50.000	ug/L	89.7	1.4	45 - 120	30	2	
4-Chloro-3-methylphenol	B174351-BS1	LCS	45.970	50.000	ug/L	91.9	50 - 120			1	
	B174351-BSD1	LCSD	49.300	50.000	ug/L	98.6	7.0	50 - 120	30	2	
2-Chlorophenol	B174351-BS1	LCS	45.080	50.000	ug/L	90.2	50 - 120			1	
	B174351-BSD1	LCSD	46.610	50.000	ug/L	93.2	3.3	50 - 120	30	2	
2-Methylphenol	B174351-BS1	LCS	41.960	50.000	ug/L	83.9	40 - 110			1	
	B174351-BSD1	LCSD	44.630	50.000	ug/L	89.3	6.2	40 - 110	30	2	
3- & 4-Methylphenol	B174351-BS1	LCS	90.390	100.00	ug/L	90.4	40 - 110			1	
	B174351-BSD1	LCSD	97.100	100.00	ug/L	97.1	7.2	40 - 110	30	2	
4-Nitrophenol	B174351-BS1	LCS	45.490	50.000	ug/L	91.0	10 - 110			1	
	B174351-BSD1	LCSD	48.360	50.000	ug/L	96.7	6.1	10 - 110	30	2	
Pentachlorophenol	B174351-BS1	LCS	34.070	50.000	ug/L	68.1	30 - 130			1	
	B174351-BSD1	LCSD	33.410	50.000	ug/L	66.8	2.0	30 - 130	30	2	
Phenol	B174351-BS1	LCS	41.330	50.000	ug/L	82.7	20 - 110			1	
	B174351-BSD1	LCSD	43.560	50.000	ug/L	87.1	5.3	20 - 110	30	2	
2,4,6-Trichlorophenol	B174351-BS1	LCS	46.080	50.000	ug/L	92.2	54 - 120			1	
	B174351-BSD1	LCSD	46.870	50.000	ug/L	93.7	1.7	54 - 120	30	2	

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Reported: 10/17/2023 8:28  
Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits			Lab Quals	Run #
							Percent Recovery	RPD	RPD		
<b>QC Batch ID: B174351</b>											
Pyridine	B174351-BS1	LCS	ND	50.000	ug/L	2.8	1 - 110		L01	1	
	B174351-BSD1	LCSD	ND	50.000	ug/L	2.9	2.1	1 - 110	30	L26	2
2-Fluorophenol (Surrogate)	B174351-BS1	LCS	27.950	40.000	ug/L	69.9	30 - 120			1	
	B174351-BSD1	LCSD	28.280	40.000	ug/L	70.7	1.2	30 - 120		2	
Phenol-d5 (Surrogate)	B174351-BS1	LCS	36.960	40.000	ug/L	92.4	12 - 110			1	
	B174351-BSD1	LCSD	38.900	40.000	ug/L	97.2	5.1	12 - 110		2	
Nitrobenzene-d5 (Surrogate)	B174351-BS1	LCS	30.990	40.000	ug/L	77.5	50 - 130			1	
	B174351-BSD1	LCSD	33.010	40.000	ug/L	82.5	6.3	50 - 130		2	
2-Fluorobiphenyl (Surrogate)	B174351-BS1	LCS	37.380	40.000	ug/L	93.4	55 - 125			1	
	B174351-BSD1	LCSD	37.040	40.000	ug/L	92.6	0.9	55 - 125		2	
2,4,6-Tribromophenol (Surrogate)	B174351-BS1	LCS	35.700	40.000	ug/L	89.2	40 - 150			1	
	B174351-BSD1	LCSD	36.540	40.000	ug/L	91.4	2.3	40 - 150		2	
p-Terphenyl-d14 (Surrogate)	B174351-BS1	LCS	21.060	20.000	ug/L	105	40 - 150			1	
	B174351-BSD1	LCSD	20.720	20.000	ug/L	104	1.6	40 - 150		2	
<b>QC Batch ID: B174941</b>											
Acenaphthene	B174941-BS1	LCS	1.5023	1.6611	mg/kg	90.4	50 - 130			3	
1,4-Dichlorobenzene	B174941-BS1	LCS	1.4033	1.6611	mg/kg	84.5	50 - 130			3	
2,4-Dinitrotoluene	B174941-BS1	LCS	1.5395	1.6611	mg/kg	92.7	50 - 130			3	
Hexachlorobenzene	B174941-BS1	LCS	1.4791	1.6611	mg/kg	89.0	40 - 130			3	
Hexachlorobutadiene	B174941-BS1	LCS	1.3698	1.6611	mg/kg	82.5	50 - 130			3	
Hexachloroethane	B174941-BS1	LCS	1.4166	1.6611	mg/kg	85.3	50 - 130			3	
Nitrobenzene	B174941-BS1	LCS	1.4545	1.6611	mg/kg	87.6	50 - 130			3	
N-Nitrosodi-N-propylamine	B174941-BS1	LCS	1.4017	1.6611	mg/kg	84.4	40 - 120			3	
Pyrene	B174941-BS1	LCS	1.6757	1.6611	mg/kg	101	40 - 150			3	
1,2,4-Trichlorobenzene	B174941-BS1	LCS	1.4817	1.6611	mg/kg	89.2	50 - 120			3	
4-Chloro-3-methylphenol	B174941-BS1	LCS	1.4681	1.6611	mg/kg	88.4	50 - 130			3	
2-Chlorophenol	B174941-BS1	LCS	1.3960	1.6611	mg/kg	84.0	50 - 130			3	
2-Methylphenol	B174941-BS1	LCS	1.3904	1.6611	mg/kg	83.7	50 - 130			3	
3- & 4-Methylphenol	B174941-BS1	LCS	2.8751	3.3223	mg/kg	86.5	50 - 130			3	
4-Nitrophenol	B174941-BS1	LCS	0.93987	1.6611	mg/kg	56.6	30 - 130			3	
Pentachlorophenol	B174941-BS1	LCS	0.95482	1.6611	mg/kg	57.5	20 - 130			3	
Phenol	B174941-BS1	LCS	1.3967	1.6611	mg/kg	84.1	40 - 120			3	
2,4,6-Trichlorophenol	B174941-BS1	LCS	1.4618	1.6611	mg/kg	88.0	50 - 130			3	
Pyridine	B174941-BS1	LCS	ND	1.6611	mg/kg	2.0	10 - 110		L07	3	
2-Fluorophenol (Surrogate)	B174941-BS1	LCS	1.0269	1.3289	mg/kg	77.3	20 - 130			3	

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	<u>Control Limits</u>		
								Percent Recovery	RPD	Lab Quals
<b>QC Batch ID: B174941</b>										
Phenol-d5 (Surrogate)	B174941-BS1	LCS	1.1106	1.3289	mg/kg	83.6		30 - 130		3
Nitrobenzene-d5 (Surrogate)	B174941-BS1	LCS	1.1020	1.3289	mg/kg	82.9		30 - 130		3
2-Fluorobiphenyl (Surrogate)	B174941-BS1	LCS	1.1927	1.3289	mg/kg	89.8		30 - 140		3
2,4,6-Tribromophenol (Surrogate)	B174941-BS1	LCS	1.0196	1.3289	mg/kg	76.7		20 - 150		3
p-Terphenyl-d14 (Surrogate)	B174941-BS1	LCS	0.68638	0.66445	mg/kg	103		30 - 150		3

Run #	QC Sample ID	QC Type	Method	Run				
				Prep Date	Date Time	Analyst	Instrument	
1	B174351-BS1	LCS	EPA-8270C	09/25/23	09/28/23 12:16	CMM	MS-B2	1
2	B174351-BSD1	LCSD	EPA-8270C	09/25/23	09/28/23 12:45	CMM	MS-B2	1
3	B174941-BS1	LCS	EPA-8270C	09/28/23	09/29/23 14:15	CMM	MS-B9	0.997

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**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			R#	
								Percent Recovery	RPD	Percent Recovery		
<b>QC Batch ID: B174941</b>		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00										
Acenaphthene	MS	2317918-03	ND	1.3447	1.6949	mg/kg		79.3		30 - 140	1	
	MSD	2317918-03	ND	1.3228	1.6502	mg/kg	1.6	80.2	30	30 - 140	2	
1,4-Dichlorobenzene	MS	2317918-03	ND	1.2780	1.6949	mg/kg		75.4		50 - 130	1	
	MSD	2317918-03	ND	1.2495	1.6502	mg/kg	2.3	75.7	30	50 - 130	2	
2,4-Dinitrotoluene	MS	2317918-03	ND	1.3820	1.6949	mg/kg		81.5		50 - 130	1	
	MSD	2317918-03	ND	1.2931	1.6502	mg/kg	6.7	78.4	30	50 - 130	2	
Hexachlorobenzene	MS	2317918-03	ND	1.3007	1.6949	mg/kg		76.7		50 - 130	1	
	MSD	2317918-03	ND	1.2795	1.6502	mg/kg	1.6	77.5	30	50 - 130	2	
Hexachlorobutadiene	MS	2317918-03	ND	1.2478	1.6949	mg/kg		73.6		50 - 130	1	
	MSD	2317918-03	ND	1.2066	1.6502	mg/kg	3.4	73.1	30	50 - 130	2	
Hexachloroethane	MS	2317918-03	ND	1.2742	1.6949	mg/kg		75.2		50 - 130	1	
	MSD	2317918-03	ND	1.1848	1.6502	mg/kg	7.3	71.8	30	50 - 130	2	
Nitrobenzene	MS	2317918-03	ND	1.3410	1.6949	mg/kg		79.1		30 - 120	1	
	MSD	2317918-03	ND	1.2828	1.6502	mg/kg	4.4	77.7	30	30 - 120	2	
N-Nitrosodi-N-propylamine	MS	2317918-03	ND	1.2664	1.6949	mg/kg		74.7		20 - 130	1	
	MSD	2317918-03	ND	1.2215	1.6502	mg/kg	3.6	74.0	30	20 - 130	2	
Pyrene	MS	2317918-03	ND	1.5288	1.6949	mg/kg		90.2		40 - 140	1	
	MSD	2317918-03	ND	1.3964	1.6502	mg/kg	9.1	84.6	30	40 - 140	2	
1,2,4-Trichlorobenzene	MS	2317918-03	ND	1.3312	1.6949	mg/kg		78.5		50 - 130	1	
	MSD	2317918-03	ND	1.3125	1.6502	mg/kg	1.4	79.5	30	50 - 130	2	
4-Chloro-3-methylphenol	MS	2317918-03	ND	1.3664	1.6949	mg/kg		80.6		50 - 130	1	
	MSD	2317918-03	ND	1.3257	1.6502	mg/kg	3.0	80.3	30	50 - 130	2	
2-Chlorophenol	MS	2317918-03	ND	1.3000	1.6949	mg/kg		76.7		50 - 130	1	
	MSD	2317918-03	ND	1.2842	1.6502	mg/kg	1.2	77.8	30	50 - 130	2	
2-Methylphenol	MS	2317918-03	ND	1.2776	1.6949	mg/kg		75.4		50 - 130	1	
	MSD	2317918-03	ND	1.2518	1.6502	mg/kg	2.0	75.9	30	50 - 130	2	
3- & 4-Methylphenol	MS	2317918-03	ND	2.6037	3.3898	mg/kg		76.8		50 - 130	1	
	MSD	2317918-03	ND	2.5248	3.3003	mg/kg	3.1	76.5	30	50 - 130	2	
4-Nitrophenol	MS	2317918-03	ND	0.94983	1.6949	mg/kg		56.0		30 - 140	1	
	MSD	2317918-03	ND	0.79307	1.6502	mg/kg	18.0	48.1	30	30 - 140	2	
Pentachlorophenol	MS	2317918-03	ND	1.0766	1.6949	mg/kg		63.5		30 - 130	1	
	MSD	2317918-03	ND	0.77228	1.6502	mg/kg	32.9	46.8	30	30 - 130	Q02	
Phenol	MS	2317918-03	ND	1.2881	1.6949	mg/kg		76.0		40 - 150	1	
	MSD	2317918-03	ND	1.2637	1.6502	mg/kg	1.9	76.6	30	40 - 150	2	
2,4,6-Trichlorophenol	MS	2317918-03	ND	1.4095	1.6949	mg/kg		83.2		50 - 130	1	
	MSD	2317918-03	ND	1.3997	1.6502	mg/kg	0.7	84.8	30	50 - 130	2	

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Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		
								Percent Recovery	Percent Recovery	Lab Quals R#
<b>QC Batch ID: B174941</b>		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00								
Pyridine	MS	2317918-03	ND	0.30203	1.6949	mg/kg		17.8	10 - 110	J 1
	MSD	2317918-03	ND	0.29274	1.6502	mg/kg	3.1	17.7	30	10 - 110 J 2
2-Fluorophenol (Surrogate)	MS	2317918-03	ND	0.93492	1.3559	mg/kg		69.0	20 - 130	1
	MSD	2317918-03	ND	1.0188	1.3201	mg/kg	8.6	77.2	20 - 130	2
Phenol-d5 (Surrogate)	MS	2317918-03	ND	1.0820	1.3559	mg/kg		79.8	30 - 130	1
	MSD	2317918-03	ND	1.0752	1.3201	mg/kg	0.6	81.4	30 - 130	2
Nitrobenzene-d5 (Surrogate)	MS	2317918-03	ND	1.0573	1.3559	mg/kg		78.0	30 - 130	1
	MSD	2317918-03	ND	1.0297	1.3201	mg/kg	2.6	78.0	30 - 130	2
2-Fluorobiphenyl (Surrogate)	MS	2317918-03	ND	1.1183	1.3559	mg/kg		82.5	30 - 140	1
	MSD	2317918-03	ND	1.1003	1.3201	mg/kg	1.6	83.3	30 - 140	2
2,4,6-Tribromophenol (Surrogate)	MS	2317918-03	ND	1.0203	1.3559	mg/kg		75.2	20 - 150	1
	MSD	2317918-03	ND	0.99274	1.3201	mg/kg	2.7	75.2	20 - 150	2
p-Terphenyl-d14 (Surrogate)	MS	2317918-03	ND	0.63966	0.67797	mg/kg		94.3	30 - 150	1
	MSD	2317918-03	ND	0.62079	0.66007	mg/kg	3.0	94.0	30 - 150	2

Run #	QC Sample ID	QC Type	Method	Run					
				Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B174941-MS1	MS	EPA-8270C	09/28/23	09/29/23 14:42	CMM	MS-B9	1.017	
2	B174941-MSD1	MSD	EPA-8270C	09/28/23	09/29/23 19:12	CMM	MS-B9	0.990	

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Chemical Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
Moisture	B174498-BLK1	ND	%	0.05	0.05		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174498-BLK1	PB	Calc	09/22/23	09/28/23 15:30	AMM	Calc	1

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Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Chemical Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	<u>Control Limits</u>		
									RPD	Percent Recovery	Lab Quals R#
<b>QC Batch ID: B174741</b>			Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00								
Solids	DUP	2317918-03	87.138	87.153		%	0.0		20		1
<b>QC Batch ID: B175676</b>			Used client sample: Y - Description: SB-1-4', 09/18/2023 13:40								
Solids	DUP	2317918-04	82.210	83.721		%	1.8		20		2
<b>Run</b>											
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution			
1	B174741-DUP1	DUP	SM-2540G	09/27/23	09/28/23 09:00	ELR	MANUAL				1
2	B175676-DUP1	DUP	SM-2540G	10/09/23	10/10/23 09:00	ELR	SC-2				1

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APTIM -Concord  
4005 Port Chicago Highway, Suite 200  
Concord, CA 94520

**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Total Concentrations (TTLC)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #	
<b>QC Batch ID: B174581</b>								
Arsenic	B174581-BLK2	ND	mg/kg	1.0	0.40		1	
Barium	B174581-BLK2	ND	mg/kg	0.50	0.18		1	
Cadmium	B174581-BLK2	ND	mg/kg	0.50	0.052		1	
Chromium	<b>B174581-BLK2</b>	<b>0.079876</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.050</b>	<b>J</b>	<b>1</b>	
Lead	B174581-BLK2	ND	mg/kg	2.5	0.41		1	
Selenium	B174581-BLK2	ND	mg/kg	1.0	0.98		1	
Silver	B174581-BLK2	ND	mg/kg	0.50	0.067		1	
<b>QC Batch ID: B174633</b>								
Total Hexavalent Chromium	B174633-BLK1	ND	mg/kg	1.0	0.30		2	
<b>QC Batch ID: B174712</b>								
Mercury	B174712-BLK1	ND	mg/kg	0.16	0.016		3	
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174581-BLK2	PB	EPA-6010B	09/25/23	10/04/23 15:03	JRG	PE-OP4	1
2	B174633-BLK1	PB	EPA-7199	09/26/23	09/28/23 22:12	EEC	IC11	1
3	B174712-BLK1	PB	EPA-7471A	09/27/23	09/27/23 13:20	MG2	CETAC3	1

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Reported: 10/17/2023 8:28

Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Total Concentrations (TTLC)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals	Run #
							Percent Recovery	RPD		
<b>QC Batch ID: B174581</b>										
Arsenic	B174581-BS2	LCS	19.496	20.000	mg/kg	97.5	75 - 125		1	
Barium	B174581-BS2	LCS	102.86	100.00	mg/kg	103	75 - 125		1	
Cadmium	B174581-BS2	LCS	9.1509	10.000	mg/kg	91.5	75 - 125		1	
Chromium	B174581-BS2	LCS	98.713	100.00	mg/kg	98.7	75 - 125		1	
Lead	B174581-BS2	LCS	97.966	100.00	mg/kg	98.0	75 - 125		1	
Selenium	B174581-BS2	LCS	17.100	20.000	mg/kg	85.5	75 - 125		1	
Silver	B174581-BS2	LCS	9.4556	10.000	mg/kg	94.6	75 - 125		1	
<b>QC Batch ID: B174633</b>										
Total Hexavalent Chromium	B174633-BS1	LCS	44.713	40.000	mg/kg	112	80 - 120		2	
<b>QC Batch ID: B174712</b>										
Mercury	B174712-BS1	LCS	0.72160	0.80000	mg/kg	90.2	80 - 120		3	
	B174712-BSD1	LCSD	0.81760	0.80000	mg/kg	102	12.5	80 - 120	20	4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Instrument	Dilution
					Date	Time		
1	B174581-BS2	LCS	EPA-6010B	09/25/23	10/04/23	15:04	JRG	PE-OP4
2	B174633-BS1	LCS	EPA-7199	09/26/23	09/28/23	22:22	EEC	IC11
3	B174712-BS1	LCS	EPA-7471A	09/27/23	09/27/23	13:26	MG2	CETAC3
4	B174712-BSD1	LCSD	EPA-7471A	09/27/23	09/27/23	14:56	MG2	CETAC3

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Project: Phase 2 Site Assesment, Zero Waste Sonoma  
Project Number: 631034162.00131101  
Project Manager: Scott Bittinger

## Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits				
								Percent Recovery	RPD	Percent Recovery	Lab Quals	R#
<b>QC Batch ID: B174581</b>		Used client sample: Y - Description: SB-3-4', 09/18/2023 12:00										
Arsenic	DUP	2317918-03	5.4260	4.4362		mg/kg	20.1		20		J,A02	1
	MS	2317918-03	5.4260	22.354	20.000	mg/kg		84.6		75 - 125		2
	MSD	2317918-03	5.4260	23.723	20.000	mg/kg	5.9	91.5	20	75 - 125		3
Barium	DUP	2317918-03	155.90	155.82		mg/kg	0.0		20			1
	MS	2317918-03	155.90	266.66	100.00	mg/kg		111		75 - 125		2
	MSD	2317918-03	155.90	275.16	100.00	mg/kg	3.1	119	20	75 - 125		3
Cadmium	DUP	2317918-03	ND	ND		mg/kg			20			1
	MS	2317918-03	ND	9.4764	10.000	mg/kg		94.8		75 - 125		2
	MSD	2317918-03	ND	9.7057	10.000	mg/kg	2.4	97.1	20	75 - 125		3
Chromium	DUP	2317918-03	39.171	38.657		mg/kg	1.3		20			1
	MS	2317918-03	39.171	140.80	100.00	mg/kg		102		75 - 125		2
	MSD	2317918-03	39.171	143.51	100.00	mg/kg	1.9	104	20	75 - 125		3
Lead	DUP	2317918-03	10.777	10.265		mg/kg	4.9		20		J	1
	MS	2317918-03	10.777	111.05	100.00	mg/kg		100		75 - 125		2
	MSD	2317918-03	10.777	113.53	100.00	mg/kg	2.2	103	20	75 - 125		3
Selenium	DUP	2317918-03	ND	ND		mg/kg			20			1
	MS	2317918-03	ND	14.650	20.000	mg/kg		73.2		75 - 125	Q03	2
	MSD	2317918-03	ND	14.688	20.000	mg/kg	0.3	73.4	20	75 - 125	Q03	3
Silver	DUP	2317918-03	ND	ND		mg/kg			20			1
	MS	2317918-03	ND	9.6657	10.000	mg/kg		96.7		75 - 125		2
	MSD	2317918-03	ND	10.435	10.000	mg/kg	7.7	104	20	75 - 125		3
<b>QC Batch ID: B174633</b>		Used client sample: Y - Description: SB-5-4', 09/18/2023 10:20										
Total Hexavalent Chromium	DUP	2317918-01	0.63645	0.64445		mg/kg	1.2		20		J	4
	MS	2317918-01	0.63645	21.868	39.401	mg/kg		53.9		75 - 125	Q03	5
	MSD	2317918-01	0.63645	22.017	39.494	mg/kg	0.7	54.1	20	75 - 125	Q03	6
<b>QC Batch ID: B174712</b>		Used client sample: N										
Mercury	DUP	2317981-01	0.031746	0.018571		mg/kg	52.4		20		J,Q01	7
	MS	2317981-01	0.031746	0.84921	0.79365	mg/kg		103		80 - 120		8
	MSD	2317981-01	0.031746	0.78095	0.79365	mg/kg	8.4	94.4	20	80 - 120		9

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**Reported:** 10/17/2023 8:28  
**Project:** Phase 2 Site Assesment, Zero Waste Sonoma  
**Project Number:** 631034162.00131101  
**Project Manager:** Scott Bittinger

## Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Run		Analyst	Instrument	Dilution
				Prep Date	Date Time			
1	B174581-DUP2	DUP	EPA-6010B	09/25/23	10/04/23 15:07	JRG	PE-OP4	5
2	B174581-MS2	MS	EPA-6010B	09/25/23	10/04/23 15:10	JRG	PE-OP4	5
3	B174581-MSD2	MSD	EPA-6010B	09/25/23	10/04/23 15:11	JRG	PE-OP4	5
4	B174633-DUP1	DUP	EPA-7199	09/26/23	09/28/23 22:42	EEC	IC11	0.977
5	B174633-MS1	MS	EPA-7199	09/26/23	09/28/23 22:51	EEC	IC11	0.985
6	B174633-MSD1	MSD	EPA-7199	09/26/23	09/28/23 23:01	EEC	IC11	0.987
7	B174712-DUP1	DUP	EPA-7471A	09/27/23	09/27/23 13:30	MG2	CETAC3	0.992
8	B174712-MS1	MS	EPA-7471A	09/27/23	09/27/23 13:38	MG2	CETAC3	0.992
9	B174712-MSD1	MSD	EPA-7471A	09/27/23	09/27/23 13:40	MG2	CETAC3	0.992

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Project: Phase 2 Site Assesment, Zero Waste Sonoma

Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #	
<b>QC Batch ID: B174262</b>								
Hexavalent Chromium	B174262-BLK1	ND	ug/L	0.20	0.13		1	
<b>QC Batch ID: B174539</b>								
Total Arsenic	B174539-BLK1	ND	ug/L	50	7.8		2	
Total Barium	B174539-BLK1	ND	ug/L	10	3.5		2	
Total Cadmium	B174539-BLK1	ND	ug/L	10	1.1		2	
<b>Total Chromium</b>	<b>B174539-BLK1</b>	<b>1.2235</b>	<b>ug/L</b>	<b>10</b>	<b>1.1</b>	<b>J</b>	<b>2</b>	
Total Lead	B174539-BLK1	ND	ug/L	50	4.0		2	
Total Selenium	B174539-BLK1	ND	ug/L	100	15		2	
Total Silver	B174539-BLK1	ND	ug/L	10	1.9		2	
<b>QC Batch ID: B174799</b>								
Total Mercury	B174799-BLK1	ND	ug/L	0.20	0.022		3	
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B174262-BLK1	PB	EPA-7199	09/19/23	09/19/23 20:12	ANN	IC11	1
2	B174539-BLK1	PB	EPA-6010B	09/22/23	10/05/23 18:39	ARD	PE-OP4	1
3	B174799-BLK1	PB	EPA-7470A	09/28/23	09/28/23 13:03	MG2	CETAC4	1

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Project Number: 631034162.00131101

Project Manager: Scott Bittinger

## Metals Analysis

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits			Lab Quals	Run #
							RPD	Percent Recovery	RPD		
<b>QC Batch ID: B174262</b>											
Hexavalent Chromium	B174262-BS1	LCS	20.042	20.000	ug/L	100		90 - 110			1
<b>QC Batch ID: B174539</b>											
Total Arsenic	B174539-BS1	LCS	190.54	200.00	ug/L	95.3	80 - 120				2
	B174539-BSD1	LCSD	188.82	200.00	ug/L	94.4	0.9	80 - 120	20		3
Total Barium	B174539-BS1	LCS	400.64	400.00	ug/L	100	80 - 120				2
	B174539-BSD1	LCSD	392.06	400.00	ug/L	98.0	2.2	80 - 120	20		3
Total Cadmium	B174539-BS1	LCS	180.93	200.00	ug/L	90.5	80 - 120				2
	B174539-BSD1	LCSD	172.92	200.00	ug/L	86.5	4.5	80 - 120	20		3
Total Chromium	B174539-BS1	LCS	200.58	200.00	ug/L	100	80 - 120				2
	B174539-BSD1	LCSD	194.04	200.00	ug/L	97.0	3.3	80 - 120	20		3
Total Lead	B174539-BS1	LCS	429.41	400.00	ug/L	107	80 - 120				2
	B174539-BSD1	LCSD	408.14	400.00	ug/L	102	5.1	80 - 120	20		3
Total Selenium	B174539-BS1	LCS	179.21	200.00	ug/L	89.6	80 - 120				2
	B174539-BSD1	LCSD	176.71	200.00	ug/L	88.4	1.4	80 - 120	20		3
Total Silver	B174539-BS1	LCS	91.714	100.00	ug/L	91.7	80 - 120				2
	B174539-BSD1	LCSD	88.826	100.00	ug/L	88.8	3.2	80 - 120	20		3
<b>QC Batch ID: B174799</b>											
Total Mercury	B174799-BS1	LCS	1.1175	1.0000	ug/L	112		85 - 115			4

Run #	QC Sample ID	QC Type	Method	Run				Instrument	Dilution
				Prep Date	Date Time	Analyst			
1	B174262-BS1	LCS	EPA-7199	09/19/23	09/19/23 20:22	ANN	IC11	1	
2	B174539-BS1	LCS	EPA-6010B	09/22/23	10/05/23 18:21	ARD	PE-OP4	1	
3	B174539-BSD1	LCSD	EPA-6010B	09/22/23	10/05/23 18:23	ARD	PE-OP4	1	
4	B174799-BS1	LCS	EPA-7470A	09/28/23	09/28/23 13:06	MG2	CETAC4	1	

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Project Manager: Scott Bittinger

## Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits			Lab Quals	R#
								Percent Recovery	Percent Recovery	RPD		
<b>QC Batch ID: B174262</b>		Used client sample: N										
Hexavalent Chromium	DUP	2317872-08	1065.1	1176.6		ug/L	10.0		10		A10	1
	MS	2317872-08	1065.1	2184.7	1010.1	ug/L		111	90 - 110		A10	2
	MSD	2317872-08	1065.1	2172.2	1010.1	ug/L	0.6	110	10	90 - 110	A10	3
<b>QC Batch ID: B174539</b>		Used client sample: N										
Total Arsenic	DUP	2318109-01	ND	ND		ug/L			20			4
	MS	2318109-01	ND	183.54	200.00	ug/L		91.8	75 - 125			5
	MSD	2318109-01	ND	188.71	200.00	ug/L	2.8	94.4	20	75 - 125		6
Total Barium	DUP	2318109-01	98.870	103.69		ug/L	4.8		20			4
	MS	2318109-01	98.870	483.67	400.00	ug/L		96.2	75 - 125			5
	MSD	2318109-01	98.870	485.26	400.00	ug/L	0.3	96.6	20	75 - 125		6
Total Cadmium	DUP	2318109-01	ND	ND		ug/L			20			4
	MS	2318109-01	ND	173.93	200.00	ug/L		87.0	75 - 125			5
	MSD	2318109-01	ND	172.47	200.00	ug/L	0.8	86.2	20	75 - 125		6
Total Chromium	DUP	2318109-01	ND	1.1013		ug/L			20		J	4
	MS	2318109-01	ND	196.60	200.00	ug/L		98.3	75 - 125			5
	MSD	2318109-01	ND	194.60	200.00	ug/L	1.0	97.3	20	75 - 125		6
Total Lead	DUP	2318109-01	ND	4.6995		ug/L			20		J	4
	MS	2318109-01	ND	407.21	400.00	ug/L		102	75 - 125			5
	MSD	2318109-01	ND	409.12	400.00	ug/L	0.5	102	20	75 - 125		6
Total Selenium	DUP	2318109-01	ND	ND		ug/L			20			4
	MS	2318109-01	ND	177.31	200.00	ug/L		88.7	75 - 125			5
	MSD	2318109-01	ND	178.66	200.00	ug/L	0.8	89.3	20	75 - 125		6
Total Silver	DUP	2318109-01	ND	ND		ug/L			20			4
	MS	2318109-01	ND	88.792	100.00	ug/L		88.8	75 - 125			5
	MSD	2318109-01	ND	90.807	100.00	ug/L	2.2	90.8	20	75 - 125		6
<b>QC Batch ID: B174799</b>		Used client sample: N										
Total Mercury	DUP	2318121-01	0.040500	0.047500		ug/L	15.9		20		J	7
	MS	2318121-01	0.040500	1.1050	1.0000	ug/L		106	70 - 130			8
	MSD	2318121-01	0.040500	1.1275	1.0000	ug/L	2.0	109	20	70 - 130		9

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## Metals Analysis

### Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Run				
				Prep Date	Date Time	Analyst	Instrument	Dilution
1	B174262-DUP1	DUP	EPA-7199	09/19/23	09/20/23 08:47	SM2	IC11	50
2	B174262-MS1	MS	EPA-7199	09/19/23	09/20/23 08:57	SM2	IC11	50.505
3	B174262-MSD1	MSD	EPA-7199	09/19/23	09/20/23 09:06	SM2	IC11	50.505
4	B174539-DUP1	DUP	EPA-6010B	09/22/23	10/05/23 18:26	ARD	PE-OP4	1
5	B174539-MS1	MS	EPA-6010B	09/22/23	10/05/23 18:29	ARD	PE-OP4	1
6	B174539-MSD1	MSD	EPA-6010B	09/22/23	10/05/23 18:31	ARD	PE-OP4	1
7	B174799-DUP1	DUP	EPA-7470A	09/28/23	09/28/23 13:10	MG2	CETAC4	1
8	B174799-MS1	MS	EPA-7470A	09/28/23	09/28/23 13:12	MG2	CETAC4	1
9	B174799-MSD1	MSD	EPA-7470A	09/28/23	09/28/23 13:14	MG2	CETAC4	1

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## Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A10	Detection and quantitation limits were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
L07	The Laboratory Control Sample (LCS) recovery is not within laboratory established control limits.
L26	The relative percent difference between the Laboratory Control Sample Soil (LCSS) and the LCSS Duplicate exceeds the control limit.
Q01	Sample precision is not within the control limits.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S05	The sample holding time was exceeded.
S09	The surrogate recovery for this compound was not within the control limits.