Krista Webb Consulting
5045 NE Minder Road
Poulsbo, WA 98370
(360) 265-3984
kristaleewebb@gmail.com

September 22, 2020

Sonia Fernandez
NWRO VCP Coordinator
Department of Ecology
Northwest Regional Office
3190 160th Avenue, SE
Bellevue, WA 98008-5452

Subject: Seitz Property
Brian Lane NW
Silverdale, Washington
Kitsap County Parcel IDs: 082501-4-026-2000 and 082501-4-25-2001
FSID: 6865393
VCP: NW1472

Dear Mike,

Krista Webb Consulting (KWC) has prepared this letter to summarize the available information regarding the above-mentioned site, responding to the Ecology Opinion Letter dated June 22, 2016 and outline a potential path to No Further Action (NFA) so that the site can be sold or developed.

Site Description

The Seitz Property consists of two, unimproved, contiguous, rectangular-shaped Kitsap County tax parcels (Parcel A and Parcel B) in Silverdale WA (Figure 1The Property is heavily vegetated with overgrown blackberry bushes, weeds, tall grasses, and other underbrush. Access to view the interior of the Property is solely via a legal 30-foot-wide easement from Brian Lane.

Site Background

Review of the Kitsap County Assessor's documentation, Washington State Department of Ecology (Ecology) records, aerial photos, city directories, regulatory agency records, the regulatory database report, and site reconnaissance found that the Property was unimproved land as early as 1891 and developed with a residence and chicken coop in the early 1980s. The residence and chicken coop were removed from the Property in the mid-1990s. The land has been structurally unimproved since that time.

In 1985 and 1986 complaints were made to the Kitsap County Health District alleging that illegal dumping was being conducted on site. The Health District was unable to substantiate the claims of illegal burial of drums and the excavation that caused the complaint was associated with a single-family residence being moved onto the property. In 1997, the property owner was notified by the EPA that there were allegations of drums/illegal dumping located on the site. Presumably the allegations to the

EPA stemmed from the previous accusation from the same neighbor that drums were illegally buried on the property.

In 1997, the Superfund Technical Assessment and Response Team (START) conducted a site investigation on the subject property, which included brush and debris removal, geophysical survey, trenching in the alleged areas of dumping, and a sample collection from one drum found on site. The investigation revealed no evidence of buried drums or cylinders. One 55-gallon drum containing 30-gallons of diesel or heating oil was removed and recycled.

On March 25, 2005, the property owner contacted the Kitsap Health District to communicate that, while clearing land, he had found a 10-foot by 10-foot area with eighteen 55-gallon drums. On March 29, 2005, the same neighbor who had previously alleged illegal dumping of drums contacted Ecology to report the 18 drums found by the property owner and allege that there were additional buried drums on site. Ecology referred the report to the Kitsap Health District for further assessment and a Site Hazard Assessment (SHA) was performed at the site

As a result of the SHA, in April 2005 the site was listed on the Confirmed and Suspected Contaminated Sites (CSCS) list based on confirmed releases of petroleum hydrocarbons to soil and suspected releases of halogenated organic compounds, metals, and non-halogenated solvents to soil. Mr. Seitz had the drums removed by Clean Harbors Environmental Service on August 17, 2005.

The Kitsap Health District performed an additional SHA in February 2006. Based on this report, Ecology concluded that Polycyclic aromatic hydrocarbons (PAHs) with concentrations above Model Toxics Control Act (MTCA) cleanup levels were confirmed in surface soil in the area where the drums were stored. No metals were detected in soil with concentrations above MTCA cleanup levels.

Arsenic was detected in groundwater from a nearby drinking water well in concentrations above MTCA; however, the Health District determined that because arsenic was not detected in soil, the result of 0.012 ppm for arsenic was not associated with the contaminated site. The site received a high threat ranking because the site was assessed as a spill of unknown volume to the surface resulting in an unknown volume of contaminated soils because the extent of soil contamination was unknown at the time.

In June 2015, samples were collected by EnviroSound, Inc. (Figure 2). Four shallow subsurface samples were collected by hand boring in the area of the former drum storage area. It was reported that PAHs were detected in concentrations above MTCA cleanup levels in one sample within the former drum storage area. However, the value reported in the Soil Investigation Report (EnviroSound 2015) for B(a)P of 0.56 mg/kg was incorrect. The analytical laboratory reports were reviewed (See page 5 of Attachment A) and this value was actually 0.056 mg/kg. The total Toxicity Equivalency Factors for PAHs in that sample were below the MTCA cleanup level of 0.1 mg/kg. In October 2015, Mr. Seitz excavated and disposed of approximately 5.5 cubic yards (1.45 tons) of soil from the former drum storage areas. Two confirmation samples were collected after excavation and analyzed for PAHs and sVOCs. PAHs were not detected in the confirmation samples; however, arsenic is reported as detected above MTCA Cleanup Levels (Table 1).

The Site Soil Investigation report recommended that the site be submitted to the Voluntary Cleanup Program and the report was submitted to Ecology for an opinion. Ecology provided an opinion on June 22, 2016, concluding that further remedial action is necessary to cleanup contamination at the 10-foot by 10-foot former drum location based on detection of arsenic and PAHs in soil and the potential for arsenic in groundwater. No action was taken, and the site was dropped from the Voluntary Cleanup Program (VCP). In June 2019, after personal communication with Andrew Seitz, Ecology recommended that Mr. Seitz engage a qualified, licensed professional and prepared a VCP application for Mr. Seitz to sign and submit; however, Mr. Seitz did not proceed with submission of the VCP application at that time.

In June 2020, Mr. Seitz engaged KWC to review all the site data, enter the site into the VCP, and communicate with Ecology. On May 6, 2020 staff from KWC discussed the site and the path forward with staff from Ecology. During this conversation, it was agreed that past investigations were based on false allegations and inaccurate information. Ecology staff agreed that there was not adequate documentation of the history and use of the site and that a Phase I Environmental Site Investigation would be the best tool for determining and documenting the potential for past releases.

A Phase I ESA was prepared by Associated Environmental Group, LLC (AEG). The text of the Phase I is provided as Attachment B (full report provided digitally). A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The text of the Phase I is provided

The Phase I concluded that the only REC identified at the property is the former drum storage area because of Ecology's opinion that it has not been adequately remediated. Based on the Site Soil Investigation, no contaminated soil remains in the location of the former drum storage area. No other RECs (controlled, historical, or *de minimus*) were identified on the property.

Conclusions

Parcel A and Parcel B

There are two parcels 026 (Parcel A), and 026 (Parcel B). All alleged sources of contamination at Parcel B have been investigated and were not substantive and Parcel B should be separated from the site as a whole and given NFA status.

PAHs in Soil

The site is under regulated authority only because a neighbor falsely reported that drums of hazardous waste were buried on the site. Two investigations (START and GeoRecon) using trenching and ground penetrating radar have failed to find any evidence of buried drums. No hazardous materials were found during the 2020 Phase 1 Environmental Site Investigation. The only identified REC for the property was the former drum storage site identified and self-reported by the owner in 2005. All drums were removed and appropriately disposed of. In 2015, concentrations of PAHs and semi-volatile organic compounds (sVOCs) in soil under the drum storage area not detected or were less than MTCA cleanup

levels[1] and shallow (less than 1.5 ft bgs). All potentially contaminated soil was removed and clean confirmation samples were collected.

Arsenic in Groundwater

Water sampling was performed by the Kitsap Health District in November 2005. Water was sampled from two existing drinking water wells downgradient from the site. Arsenic was detected in one of the water samples at 0.012 mg/L. The MTCA method A cleanup level for arsenic in groundwater is 0.01 mg/L. At that time no arsenic was detected in soil and the Health District concluded it was not related to the site. Iron was also detected in this sample above the Secondary Maximum Contaminant Level (MCL) of 0.3 mg/L.

Arsenic is a naturally occurring element in the environment and its presence in groundwater is largely the result of natural dissolution of arsenic-bearing minerals over time[2]. Elevated concentrations of arsenic in groundwater affect many parts of the country where arsenic-bearing minerals are common, including the Puget Sound area of Washington State.

Higher levels of arsenic tend to be found more in groundwater sources of drinking water than in surface water sources (e.g., lakes and rivers). Many states, including Washington, have a significant number of public water systems with arsenic concentrations greater than EPA's standard of 10 µg/L[3].

The United States Geological Survey (USGS) has evaluated arsenic data and has published maps summarizing a national data set for arsenic in groundwater. These maps provide a summary view of patterns of naturally occurring arsenic in groundwater across the United States. The arsenic occurrence map shows elevated arsenic concentrations greater than the drinking water standard of 10 ug/L in western Washington, particularly in the Puget Sound, including Kitsap County.

The Washington State Department of Health (DOH) notes arsenic is found in well water throughout Washington State and recommends that water used for drinking or food preparation contain no more than 10 µg/L arsenic (DOH, 2008). DOH tracks arsenic in samples from regulated public drinking water sources at concentrations greater than the drinking water standard of 10 ug/L. These data are summarized on a map of Washington State presented in Figure 3. This map shows that regulated water systems in Kitsap County, including locations near the Olalla Landfill, have arsenic concentrations greater than the Washington State Drinking Water Standard of 10 ug/L.

The Bremerton-Kitsap County Health District Environmental Health Division conducted a domestic well survey in 1995 where a background level of arsenic in southern Kitsap County was determined to be 9.69 ug/L[4]. The background arsenic concentration was taken from the Kitsap County Ground Water

[1] The value reported in the Soil Investigation Report (EnviroSound 2015) for B(a)P of 0.56 mg/kg was incorrect. The analytical laboratory reports were reviewed and this value was actually 0.056 mg/kg. The total Toxicity Equivalency Factors for PAHs in that sample were below the MTCA cleanup level of 0.1 mg/kg.
[2] United States Geological Survey (USGS), Fact Sheet 063-00, August 7, 2008.
[3] United States Environmental Protection Agency (EPA, 2011). Website Reference: http://water.epa.gov/lawsregs/rulesregs/sdwa/arsenic/Basis-Information.cfm
[4] Bremerton-Kitsap County Health District (KCHD), Environmental Health Division, Solid Waste Program. Olalla Landfill Domestic Well Survey Results. Prepared by Shawn Ultican, Environmental Health Specialist. October 23, 1995.

Management Plan, July 1989. The calculated concentration represents an average concentration measured in 84 wells in southern Kitsap County. According to the survey, the wells used in the comparison are all greater than one hundred feet deep; therefore, the wells are considered comparable to the conditions at the drinking water well downgradient from the Seitz property.

As groundwater flows through rocks and soil that contain naturally occurring arsenic bearing minerals some of the arsenic dissolves into the groundwater. Drinking water in Washington State typically contains less than 3 ug/L.[5] However, levels of health concern (from 10 ug/L to 33,000 ug/L) have been detected in samples from some wells in Washington. These concentrations are commonly associated with aquifers located in rock or soil that has naturally high arsenic content[5].

Much of the Puget Sound area, including Kitsap County, has near surface geology consisting largely of glacially deposited volcanic rocks, which contain naturally occurring arsenic. In addition, the ASARCO smelter formerly operating in Ruston WA, approximately 46 miles from the site, was one of the few smelters able to process ore containing high concentrations of arsenic. The ASARCO smelter released particulates containing high concentrations of arsenic and lead to the atmosphere, which was carried by the wind over a wide expanse of King, Pierce, Thurston, and Kitsap counties (Seattle and King County Public Health, 2011). For comparison to local groundwater arsenic concentrations, arsenic concentrations averaging 17 µg/L were detected in rain and snow collected downwind from the ASARCO smelter.[6]

The DOH Office of Drinking Water database contains analytical data, which include arsenic data for Kitsap County Class A and B water supply wells. Samples from many of these wells have arsenic at concentrations greater than the Washington State Drinking Water Standard of 10 ug/L. Database queries in the DOH database indicate that arsenic concentrations in Kitsap County Class A water supply wells are as high as 32 ug/L and as high as 100 ug/L in Class B water supply wells. Most of the drinking water standard exceedances in Kitsap County drinking water wells for which DOH has data are in the 11-20 ug/L range. The arsenic data exceeding drinking water standards in Kitsap County and Statewide water supply wells is illustrated in Figure 3 [7]. A list of wells from Kitsap County accessed in 2011 by Environmental Partners Inc., for the Olalla County Landfill is provided as Attachment C.

In addition to this, the source material in the drum area REC was not determined (from the 2005-2006 data) to contain elevated arsenic. The arsenic detected in the downgradient well was approximately 500 feet from the site, and the aquifer separated by the Vashon Till (highly impermeable) aquitard. The volume of material present at the drum area REC is very small, would have been surficial if it does, in fact exist at elevated concentrations, and surface soil in the REC has been removed.

There is no evidence that groundwater has the potential to be contaminated by the former drum storage. The drums found were intact and mostly full, indicating that little of the drum contents was

[5] Washington State Department of Health (DOH), Arsenic and Your Private Well, Publication #334-156, June 2008.
[6] Crecelius, E.A., 1975. The geochemical cycle of arsenic in Lake Washington and its relation to other elements. Limnology and Oceanography 20. No 3: 441-451.
[7] Washington State Department of Health (DOH). Division of Environmental Health, Office of Drinking Water. https://www.doh.wa.gov/Portals/1/documents/4200/arsenic.pdf. This data was accessed in 2011.

spilled. There was a small volume of soil with low concentrations of PAHs in one sample. This soil was excavated and disposed of and clean confirmation samples were collected.

2015 Sampling Showing Arsenic in Soil

Arsenic was not detected above MTCA Cleanup Levels in in historical soil samples collected by the Kitsap Health District; however, arsenic in concentrations above MTCA Cleanup Levels were reported in samples collected in 2015 from the former drum storage area during the Site Soil Investigation (Table 1). These results are anomalous and do not reconcile with historical data or the site history.

KWC attempted to evaluate the quality assurance documentation from the lab for the arsenic reported in these samples, however, only Form 1 data is available, and the laboratory is no longer in business. Furthermore, there is no known or suspected source of the arsenic at levels present (50-100% above MTCA Method A levels and 5-10 times previously detected concentrations from samples collected by Ecology and KCHD in 2006). Simply put, we believe that the data from the 2015 event is flawed, and in the absence of our ability to validate or evaluate the concentration calculations, we recommend that this data be rejected and soil in the Former Drum Area resampled to demonstrate presence or absence of elevated arsenic.

Finally, the arsenic reported was only analyzed in the surface samples. The arsenic data reported in Table 1 is from soil that has been removed and arsenic was not tested in confirmation samples after soil excavation. All-in-all, this leaves the arsenic concentrations listed in the 2015 event as highly suspect from a data quality standpoint and leaves a data gap regarding efficacy of removal in the event that elevated concentrations were present.

Site Status

The site was dropped from the VCP subsequent to the June 22, 2016 opinion from Ecology. After contact from Mr. Seitz, Ecology provided instructions on January 25, 2019 to accept the site back into the VCP. Ecology has been waiting for a signed VCP agreement from Mr. Seitz. A completed, signed VCP application is provided as Attachment D to this letter.

Recommendations

We believe it has been demonstrated that Parcel B is not contaminated and should be granted No Further Action determination as soon as possible.

We recommend that in addition to delisting Parcel B with an NFA determination, 6 additional samples be collected at Parcel A (in the drum area), three at the surface (filled material) and three at a depth of 2 feet to determine whether the soil removal was successful and/or the data collected in 2015 was valid. This sampling should confirm whether there was or was not arsenic associated with the drum area REC. Note that no other RECs were identified on either parcel.

The soil and groundwater data collected suggests that the SHA score of 2 (where 1 represents the highest risk) may not be an accurate indication of site risks to human health and the environment attributed to the Former Drum Area REC.

Based on the results of the confirmation sampling, if arsenic levels are below the MTCA Method A levels in soil, a NFA Determination should be granted for Parcel A. Based on the small volume of potentially contaminated material, the removal action already completed, and the determination that a data error caused the removal action in the first place (due to the mis-calculation of B(a)P TEFs[1]), no additional testing beyond the evaluation of arsenic is warranted.

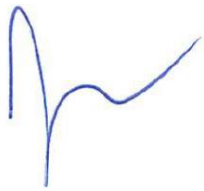
If arsenic levels are elevated above MTCA Method A Levels, groundwater sampling should be performed in the vicinity of the drum area REC with a total of three direct push well points being installed to the till interface to determine if arsenic is leaching from the site.

The listing of this site was based on incorrect information from a neighbor stating that "drums were buried illegally." Numerous investigations demonstrate that the allegations of buried drums were not accurate. In good faith, Mr. Seitz self-reported and removed the drums and soil he found that he neither placed nor generated. Soil was incorrectly reported as contaminated above MTCA cleanup levels for PAHs and is likely incorrect for reported arsenic concentrations. Therefore, we respectfully ask Ecology to expedite approval of this plan to verify the arsenic data and approve the request for NFA if arsenic is not detected in soil above MTCA cleanup levels.

Should you have any questions or concerns, or if we may be of additional assistance, please call our office at (360) 265-3984.

Sincerely,

Krista L. Webb.
Senior Environmental Scientist



John William Webb
Senior Geologist

Attachments:

Table 1.	Corrected 2015 Soil Data
Figure 1.	Site Vicinity Map
Figure 2.	Site Detail Map
Figure 3.	Arsenic in Groundwater in Washington
Attachment A.	Phase I ESA
Attachment B.	Analytical Data Reports

Attachment C. Arsenic Concentrations Exceeding Drinking Water Standards in Regulated Water Supply Wells, Kitsap County, WA
Attachment D. Completed VCP

Sietz Property
From 2015 EnviroSound Sampling Data

Table 1. 2015 Corrected Soil Data

		Sample ID	ESC15-DSA-S1-SL-01	ESC15-DSA-S1-SL-02	ESC15-DSA-S1-SL-1.5	ESC15-DSA-S2-SL-03	ESC15-DSA-S2-SL-04	ESC15-DSA-S3-SL-05	ESC15-DSA-S4-SL-07	ESC15-DSA-S5-1.5	ESC15-DSA-S6-1.5	ESC15-SP5-S7-SL-13
		Location	SL-1	SL-1	S1-SL-1.5	SL-2	SL-2	SL-3	SL-4	DSA-S5	DSA-S6	SP-5
		Date	25-Jun-15	25-Jun-15	25-Jun-15	25-Jun-15	25-Jun-15	25-Jun-15	25-Jun-15	19-Oct-15	19-Oct-15	25-Jun-15
		Depth (ft bgs)	0	1	1.5	0	1	0	0	1.5	1.5	0
Analyte	**Unit**	**MTCA**										
SW846 8270D												
Benzo(a)Pyrene	mg/kg	0.1[c]	<0.033	<0.033	<0.033	0.056[a] (TEF=0.056)[b]	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
Benzo(b)Flouranthene	mg/kg	0.1[c]	<0.033	<0.033	<0.033	0.119 (TEF=0.0119)[b]	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
Benzo(k)Flouranthene	mg/kg	0.1[c]	<0.033	<0.033	<0.033	0.059 (TEF=0.0059)[b]	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
TEF Total		0.1				0.0738[c]						
Metals - EPA -3050B/6010 C												
Arsenic	mg/kg	20	**35.1**			**42.1**						**33.8**
Barium	mg/kg	16000	82.8			81						72.2
Cadmium	mg/kg	2	<0.4			<0.4						<0.4
Chromium	mg/kg	2,000	19.2			25.1						24.3
Lead	mg/kg	250	1.75			<0.4						<0.4
Mercury (Method 7471B)	mg/kg	2	0.04			<0.03						0.03
Selenium	mg/kg	400	<1.4			<1.4						<1.4
Silver	mg/kg	400	<0.2			<0.2						<0.2

bold indicates value greater than MTCA cleanup level
< Not detected at reporting limit
bgs = below ground surface
ft = feet
mg/kg milligrams per kilogram
[a] Note that B(a)P concentration was misreported in Site Soils Investigation. Reported value from lab report is 0.056 mg/kg
[b] Toxicity Equivalency Factors (TEF) calculated from https://apps.leg.wa.gov/wac/default.aspx?cite=173-340-900
[c] MTCA cleanup level is total TEF of all the PAHs = 0.1 mg/kg

Map adapted from Google Earth Pro Version 7.1.2.2041 – 08–03–2015

EnviroSound Consulting

FIGURE 1. Site Vicinity Plan
Project Name: Seitz Property
Location: Silverdale, WA
Project: ESC15–E010
Client: Mr. Andrew Seitz
Date: November, 2015

N

N.T.S.

LEGEND

- 2015 SOIL SAMPLE LOCATION
- 2015 SOIL RE-SAMPLE LOCATION

SOURCE: IMAGE DOWNLOADED FROM GOOGLE EARTH PRO. DATED 5/2019.

APPROXIMATE LIMITS OF PROPERTY BOUNDARY

E&E 1997 TRENCH #3

FORMER DRUM STORAGE AREA (SEE DETAIL THIS FIGURE)

FORMER DEBRIS PILE AREA

026
PARCEL A

2005 GEORECON SURVEY AREA

E&E 1997 TRENCH #2

FORMER DEBRIS PILE AREA

FORMER SHED

FORMER CHICKEN COOP

E&E 1997 TRENCH #1

042

ACCESS ROAD

FORMER HOUSE

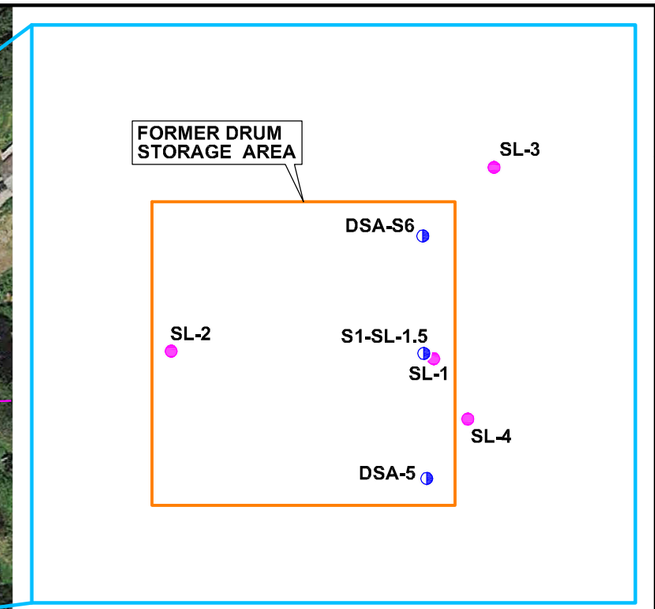
025
PARCEL B

004

049

050

LOT LINES (TYP)



FORMER DRUM STORAGE AREA DETAIL
SCALE: 1" = 5'

0 50 100
APPROX. SCALE IN FEET

FIGURE 2

SITE PLAN AND SAMPLING LOCATIONS

SEITZ PROPERTY
Silverdale, Washington

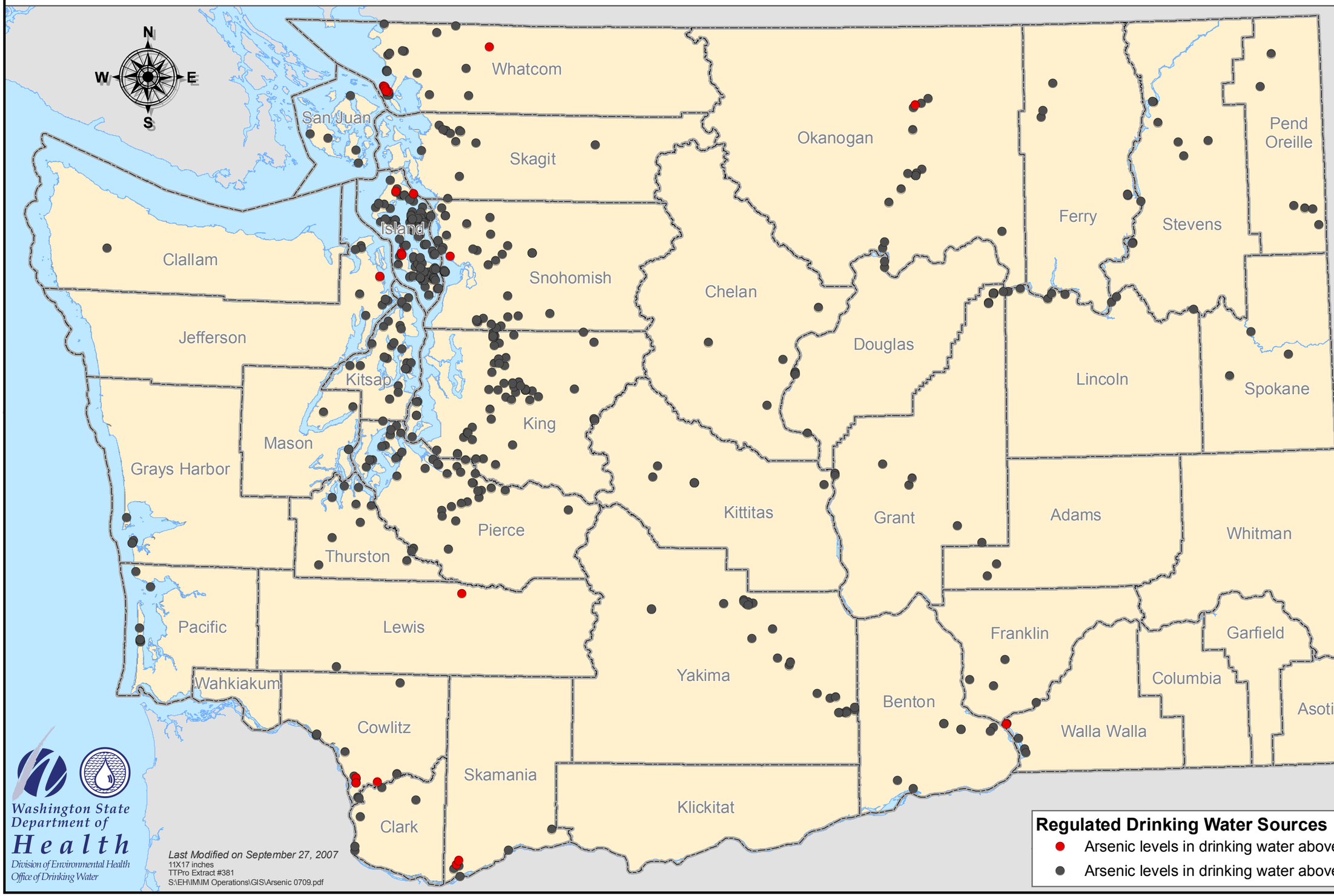
DATE: SEPT. 2020
REV.: –
CHKD: K.L.W.
DRAWN: C.E.H.
PROJ. No.: XXXX

20 Dwgs\20 ESC\20 Silverdale Property FILE: SEITZ FIGURE 2.DWG PLOTTED: 9/12/20.

Arsenic Detections in Washington Public Water Supplies

Figure 3

Sources Above Arsenic Drinking Water Standard of 10 ppb



Overview

This map shows state-regulated public water sources with arsenic levels exceeding the maximum contaminant level standard of 10 parts per billion. Sources shown in red are those that had at least one water sample reading over 50 parts per billion. The state Department of Health recommends that no one drink water with arsenic levels greater than 50 parts per billion.

Data Criteria

Values exceeding 10 parts per billion were selected from sample results entered into the Department of Health's data system between Jan. 1, 1993, and July 31, 2007. Emergency and inactive sources are excluded.

Contact Information

Office of Drinking Water
Washington State Department of Health
P.O. Box 47822
Olympia, WA 98504-7822
(800) 521-0323

Regulated Drinking Water Sources

- Arsenic levels in drinking water above 50 parts per billion
- Arsenic levels in drinking water above 10 parts per billion

Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Last Modified on September 27, 2007
11X17 inches
TTPro Extract #381
S:\EH\IM\IM Operations\GIS\Arsenic 0709.pdf

Appendix C

SPECTRA Laboratories
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/13/2015

Twiss Laboratories AP
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S1-SL-01
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 1

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2-Fluorophenol	53	SW846 8270D
Nitrobenzene-d6	74	SW846 8270D
Phenol-d6	74	SW846 8270D
2-Fluorobiphenyl	73	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	44	SW846 8270D
p-Terphenyl-d14	77	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/sgh

SPECTRA Laboratories
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/13/2015

Twiss Laboratories VIP
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S1-SL-01
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 1

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2-Fluorophenol	53	SW846 8270D
Nitrobenzene-d6	74	SW846 8270D
Phenol-d6	74	SW846 8270D
2-Fluorobiphenyl	73	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	44	SW846 8270D
p-Terphenyl-d14	77	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
al4/sgh

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S1-SL-02
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:2

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	46	SW846 8270D
2-Fluorobiphenyl	72	SW846 8270D
2-Fluorophenol	51	SW846 8270D
Nitrobenzene-d6	71	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	72	SW846 8270D
p-Terphenyl-d14	80	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/sgh

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S1-SL-02
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:2

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	0.234	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	46	SW846 8270D
2-Fluorobiphenyl	72	SW846 8270D
2-Fluorophenol	51	SW846 8270D
Nitrobenzene-d6	71	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	72	SW846 8270D
p-Terphenyl-d14	80	SW846 8270D

SPECTRA LABORATORIES

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07/13/2015

Twiss Laboratories MP
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S2-SL-03
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:3

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	0.056	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	0.119	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	0.059	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	41	SW846 8270D
2-Fluorobiphenyl	69	SW846 8270D
2-Fluorophenol	46	SW846 8270D
Nitrobenzene-d6	64	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	66	SW846 8270D
p-Terphenyl-d14	79	SW846 8270D

SPECTRA LABORATORIES

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S2-SL-03
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:3

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	41	SW846 8270D
2-Fluorobiphenyl	69	SW846 8270D
2-Fluorophenol	46	SW846 8270D
Nitrobenzene-d6	64	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	66	SW846 8270D
p-Terphenyl-d14	79	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/sgh

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S2-SL-04
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 4

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2-Fluorophenol	57	SW846 8270D
Nitrobenzene-d6	78	SW846 8270D
Phenol-d6	79	SW846 8270D
2-Fluorobiphenyl	76	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	44	SW846 8270D
p-Terphenyl-d14	89	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/sgh

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07/13/2015

Twiss Laboratories NP
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S2-SL-04
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:4

Analyte	Result	Units	Method
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2-Fluorophenol	57	SW846 8270D
Nitrobenzene-d6	78	SW846 8270D
Phenol-d6	79	SW846 8270D
2-Fluorobiphenyl	76	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	44	SW846 8270D
p-Terphenyl-d14	89	SW846 8270D

SPECTRA LABORATORIES

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S3-SL-05
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:5

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	50	SW846 8270D
2-Fluorobiphenyl	82	SW846 8270D
2-Fluorophenol	58	SW846 8270D
Nitrobenzene-d6	80	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	81	SW846 8270D
p-Terphenyl-d14	82	SW846 8270D

SPECTRA LABORATORIES

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07/13/2015

Twiss Laboratories NP
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S3-SL-05
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 5

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	50	SW846 8270D
2-Fluorobiphenyl	82	SW846 8270D
2-Fluorophenol	58	SW846 8270D
Nitrobenzene-d6	80	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	81	SW846 8270D
p-Terphenyl-d14	82	SW846 8270D

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S4-SL-07
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 7

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	45	SW846 8270D
2-Fluorobiphenyl	77	SW846 8270D
2-Fluorophenol	54	SW846 8270D
Nitrobenzene-d6	76	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	78	SW846 8270D
p-Terphenyl-d14	76	SW846 8270D

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07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DSA-S4-SL-07
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 7

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	45	SW846 8270D
2-Fluorobiphenyl	77	SW846 8270D
2-Fluorophenol	54	SW846 8270D
Nitrobenzene-d6	76	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	78	SW846 8270D
p-Terphenyl-d14	76	SW846 8270D

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07/13/2015

Twiss Laboratories MP
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Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DPI-S5-SL-09
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:9

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	50	SW846 8270D
2-Fluorobiphenyl	79	SW846 8270D
2-Fluorophenol	55	SW846 8270D
Nitrobenzene-d6	76	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	78	SW846 8270D
p-Terphenyl-d14	86	SW846 8270D

SPECTRA LABORATORIES

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07/13/2015

Twiss Laboratories
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Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DPI-S5-SL-09
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number:9

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	50	SW846 8270D
2-Fluorobiphenyl	79	SW846 8270D
2-Fluorophenol	55	SW846 8270D
Nitrobenzene-d6	76	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	78	SW846 8270D
p-Terphenyl-d14	86	SW846 8270D

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a14/sgh

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2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

07/13/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DP2-S6-SL-11
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 11

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	44	SW846 8270D
2-Fluorobiphenyl	71	SW846 8270D
2-Fluorophenol	50	SW846 8270D
Nitrobenzene-d6	70	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	71	SW846 8270D
p-Terphenyl-d14	74	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/sgh

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07/13/2015

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P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-DP2-S6-SL-11
Sample Matrix: Soil
Date Sampled: 06/25/2015
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Spectra Project: 2015060768
Spectra Number: 11

Analyte	Result	Units	Method
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	44	SW846 8270D
2-Fluorobiphenyl	71	SW846 8270D
2-Fluorophenol	50	SW846 8270D
Nitrobenzene-d6	70	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	71	SW846 8270D
p-Terphenyl-d14	74	SW846 8270D

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07/16/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 150586
Project: Seitz Property
Client ID: ESC15-SP5-S7-SL-13
Sample Matrix: Soil
Date Sampled: 06/25/2015
Date Received: 06/29/2015
Spectra Project: 2015060768
Spectra Number: 13

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	53	SW846 8270D
2-Fluorobiphenyl	88	SW846 8270D
2-Fluorophenol	60	SW846 8270D
Nitrobenzene-d6	83	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	86	SW846 8270D
p-Terphenyl-d14	94	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/mlh

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07/16/2015

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Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	53	SW846 8270D
2-Fluorobiphenyl	88	SW846 8270D
2-Fluorophenol	60	SW846 8270D
Nitrobenzene-d6	83	SW846 8270D

Surrogate	Recovery	Method
Phenol-d6	86	SW846 8270D
p-Terphenyl-d14	94	SW846 8270D

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July 13, 2015

Twiss Laboratories NP
26276 Twelve Trees Ln, Suite C
Poulsbo, WA 98370

Spectra Project #	2015060768
Sample Spiked:	Method Blank
Date Extracted:	7/10/2015
Date Analyzed:	7/10/2015
Units:	mg/Kg
Applies to Spectra #'s:	#4

GCMS Semi-Volatile Organic Analysis, Method 8270D (Scan Mode)
Blank Spike (LCS) Results in Soil/ Solids

Compound	Blank Conc.	Spike Added	LCS Conc.	LCS %Rec
Phenol	<0.08	2.50	1.52	61
2-Chlorophenol	<0.08	2.50	1.38	55
1,4-Dichlorobenzene	<0.08	1.67	0.82	49
N-Nitroso-Di-N-Propylamine	<0.08	1.67	1.21	73
1,2,4-Trichlorobenzene	<0.08	1.67	0.87	52
4-Chloro-3-Methylphenol	<0.08	2.50	1.63	65
Acenaphthene	<0.03	1.67	0.95	57
2,4-Dinitrotoluene	<0.08	1.67	0.81	49
4-Nitrophenol	<0.08	2.50	1.68	67
Pentachlorophenol	<0.08	2.50	0.37	15
Pyrene	<0.03	1.67	1.24	74

Surrogates	%Rec
2-Fluorophenol	51
Phenol-d5	72
Nitrobenzene-d5	71
2-Fluorobiphenyl	72
2,4,6-Tribromophenol	42
p-Terphenyl-d14	83

Steven G. Hibbs
Laboratory Manager

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July 13, 2015

Twiss Laboratories
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Poulsbo, WA 98370

Sample Matrix:	Soil	Date Extracted:	7/10/2015
Spectra Project:	2015060755	Date Analyzed:	7/10/2015
Applies to:	#4	Dilution:	1
		< = less than	

SEMIVOLATILE ORGANIC ANALYSIS METHOD BLANK RESULTS

METHOD 8270

Compound	mg/Kg	Compound	mg/Kg
Pyridine	< 0.33	Acenaphthene	< 0.03
N-Nitrosodimethylamine	< 0.08	2,4-Dinitrophenol	< 0.33
Aniline	< 0.33	4-Nitrophenol	< 0.08
Phenol	< 0.08	Dibenzofuran	< 0.08
bis(2-Chloroethyl)Ether	< 0.08	2,4-Dinitrotoluene	< 0.08
2-Chlorophenol	< 0.08	2,6-Dinitrotoluene	< 0.08
1,3-Dichlorobenzene	< 0.08	Diethylphthalate	< 0.08
1,4-Dichlorobenzene	< 0.08	4-Chlorophenyl-phenylether	< 0.08
Benzyl Alcohol	< 0.08	Fluorene	< 0.03
1,2-Dichlorobenzene	< 0.08	4-Nitroaniline	< 0.08
2-Methylphenol	< 0.08	4,6-Dinitro-2-Methylphenol	< 0.33
bis(2-Chloroisipropyl)Ether	< 0.08	N-Nitrosodiphenylamine	< 0.08
4-Methylphenol	< 0.08	4-Bromophenyl-phenylether	< 0.08
N-Nitroso-di-n-Propylamine	< 0.08	Hexachlorobenzene	< 0.08
Hexachloroethane	< 0.08	Pentachlorophenol	< 0.08
Nitrobenzene	< 0.08	Phenanthrene	< 0.03
Isophorone	< 0.08	Anthracene	< 0.03
2-Nitrophenol	< 0.08	Di-n-butylphthalate	< 0.08
2,4-Dimethylphenol	< 0.08	Fluoranthene	< 0.03
Benzoic Acid	< 0.33	Benzidine	< 0.67
bis(2-Chloroethoxy)methane	< 0.08	Pyrene	< 0.03
2,4-Dichlorophenol	< 0.08	Butylbenzylphthalate	< 0.08
1,2,4-Trichlorobenzene	< 0.08	3,3-Dichlorobenzidine	< 0.67
Naphthalene	< 0.03	Benzo(a)anthracene	< 0.03
4-Chloroaniline	< 0.08	bis(2-ethylhexyl)phthalate	< 0.08
Hexachlorobutadiene	< 0.08	Chrysene	< 0.03
4-Chloro-3-Methylphenol	< 0.08	Di-n-octyl phthalate	< 0.08
2-Methylnaphthalene	< 0.03	Benzo(b)Fluoranthene	< 0.03
Hexachlorocyclopentadiene	< 0.08	Benzo(k)Fluoranthene	< 0.03
2,4,6-Trichlorophenol	< 0.08	Benzo(a)pyrene	< 0.03
2,4,5-Trichlorophenol	< 0.08	Indeno(1,2,3-c,d)pyrene	< 0.03
2-Chloronaphthalene	< 0.08	Dibenzo(a,h)anthracene	< 0.03
2-Nitroaniline	< 0.08	Benzo(g,h,i)perylene	< 0.03
Dimethyl Phthalate	< 0.08	Carbazole	< 0.08
Acenaphthylene	< 0.03	Biphenyl	< 0.08
3-Nitroaniline	< 0.08	1-Methylnaphthalene	< 0.08
		Dibenzothiophene	< 0.08
		Tetrachlorophenol	< 0.08

SURROGATE RECOVERIES

Nitrobenzene-d5	69	%	2-Fluorophenol	49	%
2-Fluorobiphenyl	68	%	Phenol-d5	70	%
p-Terphenyl-d14	84	%	2,4,6-Tribromophenol	35	%

Steven G. Hibbs
Laboratory Manager

Twiss Laboratories a SPECTRA Laboratories company
26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370
(360) 779-5141 FAX (360) 779-5150 www.twisslabs.com

Client Information

Company/Client: Enviro Sound Consulting

Address: 3388 Byron Street Ste 200

City: Silverdale State: WA Zip 98383

Project Information

Project Manager/Report To: Shawn Williams

Project Name: Seitz Property Sampled by: SEW/AL

Telephone No: 360.698.5950 Fax No. 360.698.5929

Email address: Shawn@EnviroSound.net

Test Parameters Required

	Sample ID	Date	Time	Matrix	Hazard	Lab ID	Number of Containers	RCRA Metals: As Ba Cd Cr Pb Hg Se Ag	Priority Pollutant Metals: Sb As Be Cr Cr Cu Pb Hg Ni Se Ag Tl Zn	503 Regs: As Cd Cu Pb Hg Mo Ni Se Zn	Metals (Specify):	BOD CBOD COD	HEM SGT (Oil & Grease/TPH)	Solids: TDS TSS TVS TVSS TS	Turbidity pH	Nitrate-N Ammonia-N Orthophosphate-P	Nitrate+Nitrite-N	TKN Total Phosphorous	8270-C	Fecal Coliform: MPN or MF	Ag Soil: SAP Initial SAP crop:
1	ESC15-DSA-S1-SL-01	6-15-15	0850	Soil	NO	150586-01	2	X											X		
2	ESC15-DSA-S1-SL02		0905			-02	1												X		
3	ESC15-DSA-S2-SL-03		0920			-03	2	X											X		
4	ESC15-DSA-S2-SL 04		0935			-04	1														
5	ESC15-DSA-S3-SL-05		0942			-05	1												X		
6	ESC15-DSA-S3-SL-06		0955			-06	1														
7	ESC15-DSA-S4-SL-07		1005			-07	1												X		
8	ESC15-DSA-S4-SL-08		1012			-08	1														
9	ESC15-DP1-S5-SL-09		1020			-09	2	X											X		
10	ESC15-DP1-S5-SL-10		1030			-10	1														
11	ESC15 DP2-S6-SL-11		1040			-11	2	X											X		
12	ESC15 DP2-S6-SL-12		1047			-12	1														

Circle the desired parameters above. Multiple tests required for some samples. Results reported on sample time.

☐ Routine Disposal
☐ Return to Client
☐ Hazardous sample disposal (Cost of disposal will be billed to client)

Special Instructions: Hold all samples pending initial test results.

Sample Receipt:

Total # of containers

COC seals present? intact?

Temp at receipt? °C

Samples intact?

Received Via:

Turn-around Time Requirement

☑ Standard (10 Business days)

☐ Rush (specify date needed)‡

☐ Other (specify) _____

‡ *additional charges may apply*

Signatures (Name, Company, Date, Time)

Relinquished by: Shawn Williams (print) (Signature) Company ESC Date 6-25 Time 1340

Received by: Angela Barcus (print) Angela Barcus (Signature) Company Twiss Date 6/25/15 Time 140

Relinquished by: _____ (print) _____ (Signature) Company _____ Date _____ Time _____

Received by: _____ (print) _____ (Signature) Company _____ Date _____ Time _____

Samples received after 12 noon will be considered as received the following business day

Twiss Laboratories a SPECTRA Laboratories company
26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370
(360) 779-5141 FAX (360) 779-5150 www.twisslabs.com

Client Information

Company/Client: Enviro Sound Consulting

Address: 3388 Byron Street Ste 200

City: Silverdale State: WA Zip 98383

Project Information

Project Manager/Report To: Shawn William s

Project Name: Seitz Property Sampled by: SEW/AL

Telephone No: 360.698.5950 Fax No. 360.698.5929

Email address: Shawn@EnviroSound.net

Test Parameters Required

Sample ID	Date	Time	Matrix	Hazard	Lab ID	Number of Containers	RCRA Metals: As Ba Cd Cr Pb Hg Se Ag	Priority Pollutant Metals: Sb As Be Cr Cr Cu Pb Hg Ni Se Ag Tl Zn	503 Regs: As Cd Cu Pb Hg Mo Ni Se Zn	Metals (Specify):	BOD CBOD COD	HEM SGT (Oil & Grease/TPH)	Solids: TDS TSS TVS TVSS TS	Turbidity pH	Nitrate-N Ammonia-N Orthophosphate-P	Nitrate+Nitrite-N	TKN Total Phosphorous	8270 - C	Fecal Coliform: MPN or MF	Ag Soil: SAP Initial SAP crop:
1 ESC15-SPS-S7-SL-13	6-25-15	1105	Soil	NO	150586-13	2	X											X		
2 ESC15-SPS-S7-SL-14	1	1115	1	1	150586-14	1														
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Circle the desired parameters above if multiple tests are listed on the same line.

☐ Routine Disposal ☐ Hazardous sample disposal
☐ Return to Client (Cost of disposal will be billed to client)

Special Instructions Hold all samples pending initial test results

Sample Receipt:

Total # of containers

COC seals present? intact?

Temp at receipt? °C

Samples intact?

Received Via:

Turn-around-time Requirement

☒ Standard (10 Business days)

☐ Rush (specify date needed)‡

☐ Other (specify) _____

‡ *additional charges may apply*

Signatures (Name, Company, Date, Time)

Relinquished by: Shawn Williams (print) _____ (Signature) Company ESC Date 6-25-15 Time 1340

Received by: Angela Barcus (print) Angela Barcus (Signature) Company Twiss Date 6/25/15 Time 140

Relinquished by: _____ (print) _____ (Signature) Company _____ Date _____ Time _____

Received by: _____ (print) _____ (Signature) Company _____ Date _____ Time _____

Samples received after 12 noon will be considered as received the following business day

Twiss LABORATORIES

ENVIRO STAR ★★★★★

Certificate of Analysis

Enviro Sound Consulting
3388 Byron St Ste 200
Silverdale, WA 98383

Date Received: 6/25/2015
Date Reported: 7/13/2015
Sampler: Shawn Williams

Project: Seitz Property

Test	Result	Units	Method	Test Date	Initials
150586-01	**ESC15-DSA-S1-SL-01**			**Date Sampled: 6/25/2015**	
Arsenic	35.1	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Barium	82.8	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Cadmium	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Chromium	19.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Lead	1.75	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Mercury	0.04	mg/kg	EPA 7471B	6/29/2015	KW
Selenium	<1.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Silver	<0.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
150586-03	**ESC15-DSA-S2-SL-03**			**Date Sampled: 6/25/2015**	
Arsenic	42.1	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Barium	81.0	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Cadmium	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Chromium	25.1	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Lead	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Mercury	<0.03	mg/kg	EPA 7471B	6/29/2015	KW
Selenium	<1.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Silver	<0.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW

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Twiss LABORATORIES

ENVIRO STARS ★★★★★

Certificate of Analysis

Enviro Sound Consulting
3388 Byron St Ste 200
Silverdale, WA 98383

Date Received: 6/25/2015
Date Reported: 7/13/2015
Sampler: Shawn Williams

Project: Seitz Property

Test	Result	Units	Method	Test Date	Initials
150586-09	**ESC15-DS1-S5-SL-09**			**Date Sampled: 6/25/2015**	
Arsenic	31.3	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Barium	79.8	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Cadmium	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Chromium	21.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Lead	3.45	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Mercury	0.04	mg/kg	EPA 7471B	6/29/2015	KW
Selenium	<1.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Silver	<0.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
150586-11	**ESC15-DP2-S6-SL-11**			**Date Sampled: 6/25/2015**	
Arsenic	34.0	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Barium	60.8	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Cadmium	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Chromium	21.9	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Lead	5.21	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Mercury	0.05	mg/kg	EPA 7471B	6/29/2015	KW
Selenium	<1.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Silver	<0.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW

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ENVIRO SOUND

Certificate of Analysis

Enviro Sound Consulting
3388 Byron St Ste 200
Silverdale, WA 98383

Date Received: 6/25/2015
Date Reported: 7/13/2015
Sampler: Shawn Williams

Project: Seitz Property

Test	Result	Units	Method	Test Date	Initials
150586-13	**ESC15-SP5-S7-SL-13**			**Date Sampled: 6/25/2015**	
Arsenic	33.8	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Barium	72.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Cadmium	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Chromium	24.3	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Lead	<0.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Mercury	0.03	mg/kg	EPA 7471B	6/29/2015	KW
Selenium	<1.4	mg/kg	EPA 3050B/6010 C	6/30/2015	KW
Silver	<0.2	mg/kg	EPA 3050B/6010 C	6/30/2015	KW

Approved For Release

Steven G. Hibbs, Laboratory Manager

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Twiss LABORATORIES

ENVIRO STAR ★★★★★

July 10, 2015

Shawn Williams
Enviro Sound Consulting
3388 Byron St Ste 200
Silverdale, WA 98383

Project: Seitz Property
Sample Date: 6/25/15 0850

Lab Work Order#: 150586
Sample Received: 6/25/15 1340

Quality Control Report
Laboratory Check Standard

Test Parameter	QC Sample ID	True Value mg/kg	Result mg/kg	% Recovery	Date Analyzed	Method
Arsenic	ERA Soil 90	129	117	90.6	6/30/15	EPA 3050B/6010C
Barium	ERA Soil 90	334	313	93.7	6/30/15	EPA 3050B/6010C
Cadmium	ERA Soil 90	85.2	81.2	95.3	6/30/15	EPA 3050B/6010C
Chromium	ERA Soil 90	117	111	94.7	6/30/15	EPA 3050B/6010C
Lead	ERA Soil 90	107	95.1	88.9	6/30/15	EPA 3050B/6010C
Mercury	ERA Soil 90	21.1	22.5	107	6/29/15	EPA 7471B
Selenium	ERA Soil 90	183	174	94.8	6/30/15	EPA 3050B/6010C
Silver	ERA Soil 90	54.7	47.4	86.6	6/30/15	EPA 3050B/6010C

Digest Blank

Test Parameter	Blank ID	Result mg/kg	Date Analyzed	Method
Arsenic	PB27.173	<0.7	6/30/15	EPA 3050B/6010C
Barium	PB27.173	<0.4	6/30/15	EPA 3050B/6010C
Cadmium	PB27.173	<0.4	6/30/15	EPA 3050B/6010C
Chromium	PB27.173	<0.4	6/30/15	EPA 3050B/6010C
Lead	PB27.173	<0.4	6/30/15	EPA 3050B/6010C
Mercury	PB27.172	<0.03	6/29/15	EPA 7471B
Selenium	PB27.173	<1.4	6/30/15	EPA 3050B/6010C
Silver	PB27.173	<0.2	6/30/15	EPA 3050B/6010C

Approved for Release,

Steve G. Hibbs
Laboratory Manager
WDOE Accreditation #C594

SPECTRA Laboratories

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08/06/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 151462
Project: Seitz Property
Client ID: ESC15-DSA S1-SL-1.5
Sample Matrix: Soil
Date Sampled: 07/27/2015
Date Received: 07/28/2015
Spectra Project: 2015070651
Spectra Number: 1

Analyte	Result	Units	Method
1,2,4-Trichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,2-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,3-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
1,4-Dichlorobenzene	<0.083	mg/Kg	SW846 8270D
2,4,5-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4,6-Trichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dichlorophenol	<0.083	mg/Kg	SW846 8270D
2,4-Dimethylphenol	<0.083	mg/Kg	SW846 8270D
2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270D
2,4-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2,6-Dinitrotoluene	<0.083	mg/Kg	SW846 8270D
2-Chloronaphthalene	<0.083	mg/Kg	SW846 8270D
2-Chlorophenol	<0.083	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylphenol	<0.083	mg/Kg	SW846 8270D
2-Nitroaniline	<0.083	mg/Kg	SW846 8270D
2-Nitrophenol	<0.083	mg/Kg	SW846 8270D
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270D
3-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270D
4-Bromophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Chloro-3-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Chloroaniline	<0.083	mg/Kg	SW846 8270D
4-Chlorophenyl-phenylether	<0.083	mg/Kg	SW846 8270D
4-Methylphenol	<0.083	mg/Kg	SW846 8270D
4-Nitroaniline	<0.083	mg/Kg	SW846 8270D
4-Nitrophenol	<0.083	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Aniline	<0.33	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Azobenzene	<0.083	mg/Kg	SW846 8270D
Benzidine	<0.66	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzoic Acid	<0.33	mg/Kg	SW846 8270D
Benzyl Alcohol	<0.083	mg/Kg	SW846 8270D
Biphenyl	<0.083	mg/Kg	SW846 8270D
Bis(2-Chloroethyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2-Fluorophenol	42	SW846 8270D
Nitrobenzene-d5	66	SW846 8270D
Phenol-d6	56	SW846 8270D
2-Fluorobiphenyl	55	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	45	SW846 8270D
p-Terphenyl-d14	62	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14/sgh

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08/06/2015

Twiss Laboratories
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 151462
Project: Seitz Property
Client ID: ESC15-DSA S1-SL-1.5
Sample Matrix: Soil
Date Sampled: 07/27/2015
Date Received: 07/28/2015
Spectra Project: 2015070651
Spectra Number:1

Analyte	Result	Units	Method
Butylbenzylphthalate	<0.083	mg/Kg	SW846 8270D
Carbazole	<0.083	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Di-n-Butylphthalate	<0.083	mg/Kg	SW846 8270D
Di-n-Octyl Phthalate	<0.083	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Dibenzofuran	<0.083	mg/Kg	SW846 8270D
Dibenzothiophene	<0.083	mg/Kg	SW846 8270D
Diethylphthalate	<0.083	mg/Kg	SW846 8270D
Dimethyl Phthalate	<0.083	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Hexachlorobenzene	<0.083	mg/Kg	SW846 8270D
Hexachlorobutadiene	<0.083	mg/Kg	SW846 8270D
Hexachlorocyclopentadiene	<0.083	mg/Kg	SW846 8270D
Hexachloroethane	<0.083	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Isophorone	<0.083	mg/Kg	SW846 8270D
N-Nitroso-Di-n-Propylamine	<0.083	mg/Kg	SW846 8270D
N-Nitrosodiphenylamine	<0.083	mg/Kg	SW846 8270D
N-nitrosodimethylamine	<0.083	mg/Kg	SW846 8270D

Analyte	Result	Units	Method
Naphthalene	<0.033	mg/Kg	SW846 8270D
Nitrobenzene	<0.083	mg/Kg	SW846 8270D
Pentachlorophenol	<0.083	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Phenol	<0.083	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D
Pyridine	<0.33	mg/Kg	SW846 8270D
Tetrachlorophenol	<0.083	mg/Kg	SW846 8270D
bis(2-Chloroethoxy)Methane	<0.083	mg/Kg	SW846 8270D
bis(2-Ethylhexyl)Phthalate	<0.083	mg/Kg	SW846 8270D
bis(2-chloroisopropyl)Ether	<0.083	mg/Kg	SW846 8270D

Surrogate	Recovery	Method
2-Fluorophenol	42	SW846 8270D
Nitrobenzene-d5	66	SW846 8270D
Phenol-d6	56	SW846 8270D
2-Fluorobiphenyl	55	SW846 8270D

Surrogate	Recovery	Method
2,4,6-Tribromophenol	45	SW846 8270D
p-Terphenyl-d14	62	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
s14/sgh

SPECTRA Laboratories

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August 6, 2015

Twiss Laboratories
26276 Twelve Trees Ln., Ste. C
Poulsbo, WA 98370

Spectra Project #	2015070651
Sample Spiked:	Method Blank
Date Extracted:	8/3/2015
Date Analyzed:	8/3/2015
Units:	mg/Kg
Applies to Spectra #'s:	#1

GCMS Semi-Volatile Organic Analysis, Method 8270D (Scan Mode)
Blank Spike (LCS) Results in Soil/ Solids

Compound	Blank Conc.	Spike Added	LCS Conc.	LCS %Rec
Phenol	<0.08	2.50	1.77	71
2-Chlorophenol	<0.08	2.50	1.58	63
1,4-Dichlorobenzene	<0.08	1.67	0.71	43
N-Nitroso-Di-N-Propylamine	<0.08	1.67	1.49	89
1,2,4-Trichlorobenzene	<0.08	1.67	0.88	53
4-Chloro-3-Methylphenol	<0.08	2.50	1.91	76
Acenaphthene	<0.03	1.67	1.04	62
2,4-Dinitrotoluene	<0.08	1.67	0.84	50
4-Nitrophenol	<0.08	2.50	1.82	73
Pentachlorophenol	<0.08	2.50	1.73	69
Pyrene	<0.03	1.67	1.51	90

Surrogates	%Rec
2-Fluorophenol	64
Phenol-d5	87
Nitrobenzene-d5	101
2-Fluorobiphenyl	84
2,4,6-Tribromophenol	80
p-Terphenyl-d14	108

Steven G. Hibbs
Laboratory Manager

SPECTRA Laboratories

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August 6, 2015

Twiss Laboratories NP
26278 Twelve Trees Ln., Ste. C
Poulsbo, WA 98370

Sample Matrix:	Soil	Date Extracted:	8/3/2015
Spectra Project:	2015070451	Date Analyzed:	8/3/2015
Applies to:	#1	Dilution:	1
		< = less than	

SEMIVOLATILE ORGANIC ANALYSIS METHOD BLANK RESULTS

METHOD 8270

Compound	mg/Kg	Compound	mg/Kg
Pyridine	< 0.33	Acenaphthene	< 0.03
N-Nitrosodimethylamine	< 0.08	2,4-Dinitrophenol	< 0.33
Aniline	< 0.33	4-Nitrophenol	< 0.08
Phenol	< 0.08	Dibenzofuran	< 0.08
bis(2-Chloroethyl)Ether	< 0.08	2,4-Dinitrotoluene	< 0.08
2-Chlorophenol	< 0.08	2,6-Dinitrotoluene	< 0.08
1,3-Dichlorobenzene	< 0.08	Diethylphthalate	< 0.08
1,4-Dichlorobenzene	< 0.08	4-Chlorophenyl-phenylether	< 0.08
Benzyl Alcohol	< 0.08	Fluorene	< 0.03
1,2-Dichlorobenzene	< 0.08	4-Nitroaniline	< 0.08
2-Methylphenol	< 0.08	4,6-Dinitro-2-Methylphenol	< 0.33
bis(2-Chloroisopropyl)Ether	< 0.08	N-Nitrosodiphenylamine	< 0.08
4-Methylphenol	< 0.08	4-Bromophenyl-phenylether	< 0.08
N-Nitroso-di-n-Propylamine	< 0.08	Hexachlorobenzene	< 0.08
Hexachloroethane	< 0.08	Pentachlorophenol	< 0.08
Nitrobenzene	< 0.08	Phenanthrene	< 0.03
Isophorone	< 0.08	Anthracene	< 0.03
2-Nitrophenol	< 0.08	Di-n-butylphthalate	< 0.08
2,4-Dimethylphenol	< 0.03	Fluoranthene	< 0.03
Benzoic Acid	< 0.33	Benzidine	< 0.67
bis(2-Chloroethoxy)methane	< 0.08	Pyrene	< 0.03
2,4-Dichlorophenol	< 0.08	Butylbenzylphthalate	< 0.08
1,2,4-Trichlorobenzene	< 0.08	3,3-Dichlorobenzidine	< 0.67
Naphthalene	< 0.03	Benzo(a)anthracene	< 0.03
4-Chloroaniline	< 0.08	bis(2-ethylhexyl)phthalate	< 0.08
Hexachlorobutadiene	< 0.08	Chrysene	< 0.03
4-Chloro-3-Methylphenol	< 0.08	Di-n-octyl phthalate	< 0.08
2-Methylnaphthalene	< 0.03	Benzo(b)Fluoranthene	< 0.03
Hexachlorocyclopentadiene	< 0.08	Benzo(k)Fluoranthene	< 0.03
2,4,6-Trichlorophenol	< 0.08	Benzo(a)pyrene	< 0.03
2,4,5-Trichlorophenol	< 0.08	Indeno(1,2,3-c,d)pyrene	< 0.03
2-Chloronaphthalene	< 0.08	Dibenzo(a,h)anthracene	< 0.03
2-Nitroaniline	< 0.08	Benzo(g,h,i)perylene	< 0.03
Dimethyl Phthalate	< 0.08	Carbazole	< 0.08
Acenaphthylene	< 0.03	Biphenyl	< 0.08
3-Nitroaniline	< 0.08	1-Methylnaphthalene	< 0.08
		Dibenzothiophene	< 0.08
		Tetrachlorophenol	< 0.08

SURROGATE RECOVERIES

Nitrobenzene-d5	87	%	2-Fluorophenol	52	%
2-Fluorobiphenyl	70	%	Phenol-d5	73	%
p-Terphenyl-d14	86	%	2,4,6-Tribromophenol	48	%

Steven G. Hibbs
Laboratory Manager

SPECTRA Laboratories
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August 6, 2015

Twiss Laboratories
26276 Twelve Trees Ln., Ste. C
Poulsbo, WA 98370

Spectra Project #	2015070651
Sample Spiked:	2015070651-1
Date Extracted:	8/4/2015
Date Analyzed:	8/4/2015
Units:	mg/kg wet wt.
Applies to Spectra #'s:	#1

GCMS Semi-Volatile Organic Analysis, Method 8270D (Scan Mode)
Matrix Spike/ Matrix Spike Duplicate Results in Soil

Compound	Sample Conc.	Spike Added	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Phenol	<0.08	2.50	1.38	55	1.43	57	3.3
2-Chlorophenol	<0.08	2.50	1.17	47	1.21	48	3.6
1,4-Dichlorobenzene	<0.08	1.67	0.77	46	0.80	48	3.8
N-Nitroso-Di-N-Propylamine	<0.08	1.67	1.11	66	1.17	70	5.0
1,2,4-Trichlorobenzene	<0.08	1.67	0.77	46	0.80	48	3.8
4-Chloro-3-Methylphenol	<0.08	2.50	1.49	59	1.55	62	4.2
Acenaphthene	<0.03	1.67	0.80	48	0.80	48	0.8
2,4-Dinitrotoluene	<0.08	1.67	0.69	41	0.68	40	2.1
4-Nitrophenol	<0.08	2.50	1.58	63	1.61	64	1.9
Pentachlorophenol	<0.08	2.50	1.48	59	1.51	61	2.5
Pyrene	<0.03	1.67	1.00	60	1.03	61	2.6

Steven G. Hibbs
Laboratory Manager

Twiss Laboratories a SPECTRA Laboratories company
26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370
(360) 779-5141 FAX (360) 779-5150 www.twisslabs.com

Client Information

Company/Client: EnviroSound Consulting

Address: 3388 NW Byron Street Suite 200

City: Silverdale State: WA Zip 98383

Project Information

Project Manager/Report To: SHAWN WILLIAMS

Project Name: SEITZ PROPERTY Sampled by: SEWIAC

Telephone No: 360-698-5950 Fax No. 360-698-5929

Email address: Shawn@enviroSound.net

Test Parameters Required

Number of Containers	RCRA Metals: As Ba Cd Cr Pb Hg Se Ag	Priority Pollutant Metals: Sb As Be Cr Cu Pb Hg Ni Se Ag Tl Zn	503 Regs: As Cd Cu Pb Hg Mo Ni Se Zn	Metals (Specify):	BOD CBOD COD	HEM SGT (Oil & Grease/TPH)	Solids: TDS TSS TVS TVSS TS	Turbidity pH	Nitrate-N Ammonia-N Orthophosphate-P	Nitrate+Nitrite-N	TKN Total Phosphorous	8270 - C, Semi-Vol			Fecal Coliform: MPN or MF		Ag Soil: SAP Initial SAP crop:		

Circle the desired parameters above if multiple tests are listed on the same line

	Sample ID	Date	Time	Matrix	Hazard	Lab ID	
1	ESC15-DSA-S1-SL-1.5	07-27-15	0900	SOIL	NO	151462-01	X
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

☐ Routine Disposal ☐ Hazardous sample disposal
☐ Return to Client (Cost of disposal will be billed to client)

Special Instructions HOLD ALL Samples pending initial test results.

Sample Receipt:
Total # of containers
COC seals present? intact?
Temp at receipt? °C
Samples intact?
Received Via:

Turn-around Time Requirement
☐ Standard (10 Business days)
☐ Rush (specify date needed)‡
☐ Other (specify)
‡ *additional charges may apply*

Signatures (Name, Company, Date, Time)

Relinquished by: Amanda Bocarelli (print) (Signature) Company ESC Date 7/27/15 Time 400

Received by: Angelie Barcas (print) (Signature) Company Twiss Date 7/27/15 Time 400

Relinquished by: (print) (Signature) Company Date Time

Received by: (print) (Signature) Company Date Time

Samples received after 12 noon will be considered as received the following business day

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

11/03/2015

Spectra Laboratories-Kitsap, LLC
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 153795
Project: Seitz Property
Client ID: ESC15-DSA-S5-1.5'
Sample Matrix: Soil
Date Sampled: 10/19/2015
Date Received: 10/20/2015
Spectra Project: 2015100564
Spectra Number: 1

Analyte	Result	Units	Method
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D

Surrogate	% Recovery	Method
Nitrobenzene-d5	61	SW846 8270D
2-Fluorobiphenyl	72	SW846 8270D
p-Terphenyl-d14	86	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a5/mlh

SPECTRA Laboratories
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

11/03/2015

Spectra Laboratories-Kitsap, LLC SAP
26276 Twelve Trees Lane
Suite C
Poulsbo, WA 98370

P.O.#: 153795
Project: Seitz Property
Client ID: ESC15-DSA-S6-1.5'
Sample Matrix: Soil
Date Sampled: 10/19/2015
Date Received: 10/20/2015
Spectra Project: 2015100564
Spectra Number: 2

Analyte	Result	Units	Method
1-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270D
Acenaphthene	<0.033	mg/Kg	SW846 8270D
Acenaphthylene	<0.033	mg/Kg	SW846 8270D
Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270D
Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270D
Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270D
Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270D
Chrysene	<0.033	mg/Kg	SW846 8270D
Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270D
Fluoranthene	<0.033	mg/Kg	SW846 8270D
Fluorene	<0.033	mg/Kg	SW846 8270D
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270D
Naphthalene	<0.033	mg/Kg	SW846 8270D
Phenanthrene	<0.033	mg/Kg	SW846 8270D
Pyrene	<0.033	mg/Kg	SW846 8270D

Surrogate	% Recovery	Method
2-Fluorobiphenyl	70	SW846 8270D
Nitrobenzene-d6	59	SW846 8270D
p-Terphenyl-d14	86	SW846 8270D

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
as/mlh

SPECTRA Laboratories – Kitsap, LLC

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370
(360) 779-5141 FAX (360) 779-5150 www.twisslabs.com

Client Information

Company/Client: EnviroSound Consulting

Address: 3388 NW Byron Street

City: Silverdale State: WA Zip: 98383

Project Information

Project Manager/Report To: Shawn Williams

Project Name: Seitz Property Sampled by: A. Locatelli

Telephone No: 360-698-5950 Fax No. 360-698-5929

Email address: shawn@envirosound.net

Test Parameters Required

Sample ID	Date	Time	Matrix	Hazard	Lab ID	Number of Containers	RCRA Metals: As Ba Cd Cr Pb Hg Se Ag	Priority Pollutant Metals: Sb As Be Cr Cr Cu Pb Hg Ni Se Ag Tl Zn	503 Regs: As Cd Cu Pb Hg Mo Ni Se Zn	Metals (Specify):	BOD CBOD COD	HEM SGT (Oil & Grease/TPH)	Solids: TDS TSS TVS TVSS TS	Turbidity pH	Nitrate-N Ammonia-N Orthophosphate-P	Nitrate+Nitrite-N	TKN Total Phosphorous	PAH - 8270			Fecal Coliform: MPN or MF		Ag Soil: pH and EC crop:		
ESC15-DSA-S5-1.5'	10/19/2015	1220	SOIL	NO	153795-01	2												X						
ESC15-DSA-S6-1.5'	10/19/2015	1230	SOIL	NO	153795-07	2												X						

Circle the desired parameters above if multiple tests are listed on the same line

☒ Routine Disposal ☐ Return to Client ☐ Hazardous sample disposal (Cost of disposal will be billed to client)

Special Instructions

Sample Receipt:

Total # of containers 2

COC seals present? intact?

Temp at receipt? °C

Samples intact?

Received Via:

Turn-around Time Requirement

☒ Standard (10 Business days)

☐ Rush (specify date needed)‡

☐ Other (specify)

‡ *additional charges may apply*

Signatures (Name,Company,Date,Time)

Relinquished by: Amanda Locatelli (print) (Signature) Company EnviroSound Consulting Date 10-19-15 Time 1557

Received by: Angela Barcus (print) (Signature) Company Spectra Date 10/19/15 Time 355

Relinquished by: (print) (Signature) Company Date Time

Received by: (print) (Signature) Company Date Time

Samples received after 12 noon will be considered as received the following business day

Attachment C

Washington State Department of Health

Division of Environmental Health
Office of Drinking Water

Help

Water Quality Exceedences View

WSID	WS Name	County	Grp	Type	Status	Src #	DOE Src	Collect Date	Analyte Name	Result Quantity	UOM Code	Test Panel	Analyte Group	Sample Purpose	Sam #	Lab #
67613	AMBER WATER ASSOCIATION	KITSAP	B		Act	01		4/15/1991	ARSENIC	0.100	mg/L	ICHEM	IOC	RC	04269	081
46117	LARSON WATER	KITSAP	B		Act	01		3/11/1980	ARSENIC	0.065	mg/L	ICHEM	IOC	RC	03470	052
46117	LARSON WATER	KITSAP	B		Act	01		2/19/1979	ARSENIC	0.061	mg/L	ICHEM	IOC	RC	03413	051
00700	THORS WELL ASSN	KITSAP	B		Act	01		1/17/2006	ARSENIC	0.036	mg/L	IOC	IOC	RC	43407	010
AC483	Breidablik Baptist Church	KITSAP	A	TNC	Act	01		7/22/2002	ARSENIC	0.032	mg/L	AR	IOC	RC	76120	010
AC242	YAQUINA	KITSAP	B		PreAct	01		10/14/2010	ARSENIC	0.025	mg/L	IOC_SHORT	IOC	RC	04701	010
AC242	YAQUINA	KITSAP	B		PreAct	01		7/15/2010	ARSENIC	0.020	mg/L	IOC_SHORT	IOC	RC	25601	010
AC242	YAQUINA	KITSAP	B		PreAct	01		6/17/2010	ARSENIC	0.018	mg/L	IOC_SHORT	IOC	RC	37001	010
05122	NORTH PENINSULA	KITSAP	A	Comm	Act	13		6/15/2006	ARSENIC	0.016	mg/L	IOC	IOC	RC	55988	010
05122	NORTH PENINSULA	KITSAP	A	Comm	Act	13		6/13/2007	ARSENIC	0.016	mg/L	IOC_SHORT	IOC	RC	85739	010
05122	NORTH PENINSULA	KITSAP	A	Comm	Act	13		10/6/2010	ARSENIC	0.016	mg/L	IOC	IOC	RC	82301	010
92400	WALKER BEACH	KITSAP	B		Act	02		7/6/1999	ARSENIC	0.016	mg/L	IOC	IOC	RC	35890	010
AC242	YAQUINA	KITSAP	B		PreAct	01		7/15/2010	ARSENIC	0.016	mg/L	IOC_SHORT	IOC	RC	25602	010
02600	WEST SOUND UTILITY DISTRICT #1	KITSAP	A	Comm	Act	14	15G014	4/19/1983	ARSENIC	0.015	mg/L	ICHEM	IOC	RC	04344	089
05122	NORTH PENINSULA	KITSAP	A	Comm	Act	13		2/7/2007	ARSENIC	0.015	mg/L	IOC_SHORT	IOC	RC	75862	010
23740	ERICKSON	KITSAP	B		Act	01	15G502	3/18/2007	ARSENIC	0.015	mg/L	IOC	IOC	RC	78974	010
66936	BUCKLIN	KITSAP	A	Comm	Act	01	15G493	2/14/2007	ARSENIC	0.014	mg/L	AR	IOC	RC	14983	089
66936	BUCKLIN	KITSAP	A	Comm	Act	01	15G493	4/24/2007	ARSENIC	0.014	mg/L	AR	IOC	RC	16015	089
AB876	TOAD HOLLER	KITSAP	A	NTNC	Act	01		1/6/2010	ARSENIC	0.014	mg/L	AR	IOC	RC	20203	010
AB876	TOAD HOLLER	KITSAP	A	NTNC	Act	01		4/12/2011	ARSENIC	0.014	mg/L	AR	IOC	RC	38401	010
AB876	TOAD HOLLER	KITSAP	A	NTNC	Act	01		7/12/2011	ARSENIC	0.014	mg/L	AR	IOC	RC	75301	010
05122	NORTH PENINSULA	KITSAP	A	Comm	Act	13		6/15/2006	ARSENIC	0.013	mg/L	IOC_SHORT	IOC	RC	55987	010
05122	NORTH PENINSULA	KITSAP	A	Comm	Act	13		7/27/2010	ARSENIC	0.013	mg/L	AR	IOC	RC	60002	010
24800	FERNCLIFF	KITSAP	A	Comm	Act	02		9/5/2006	ARSENIC	0.013	mg/L	IOC	IOC	RC	64585	010
66936	BUCKLIN	KITSAP	A	Comm	Act	01	15G493	8/23/2006	ARSENIC	0.013	mg/L	IOC_SHORT	IOC	RC	11852	089

ARSENIC CONCENTRATIONS EXCEEDING
DRINKING WATER STANDARDS IN
REGULATED WATER SUPPLY WELLS,
KITSAP COUNTY, WASHINGTON

KEY: