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2811 Fairview Avenue East, Suite 2000  
Seattle, Washington 98102

August 24, 2017

Ms. Shannon Straws  
Seattle City Light  
P.O. Box 30423  
Seattle, Washington 98124

**SUBJECT: INTERIM ENVIRONMENTAL CHARACTERIZATION REPORT  
North Substation Property Vegetation/Landscape Investigation  
7500 8th Avenue Northeast  
Seattle, Washington  
Project Number: 1267-004-01**

Dear Ms. Straws:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this letter report to present the results of the near-surface soil sampling within landscaped areas at the North Substation Property, located at 7500 8th Avenue Northeast in Seattle, Washington (the Property). The Property consists of a nearly rectangular tax parcel (King County Parcel No. 0525049003) that covers approximately 201,327 square feet (4.62 acres) of land. The Property is currently occupied by a Seattle City Light substation. The Property location is shown on Figure 1. A site plan with exploration locations is shown on Figure 2.

The purpose of this investigation was to assess metals, petroleum hydrocarbons, pesticides, and herbicides in landscaped areas surrounding the substation, including the sidewalk planter areas. This investigation was conducted in general accordance with the proposal prepared by SoundEarth dated April 11, 2017. This letter report summarizes the field activities and results of the investigation, and provides SoundEarth's conclusions regarding the nature and extent of near-surface soil impacts at the Property.

#### **FIELD WORK**

To assess the soil conditions in landscaping areas at the Property, SoundEarth conducted a near-surface soil investigation at the Property on May 18, 2017. Prior to conducting the field activities, a public utility locate service was used to identify the location of underground utilities. Because SoundEarth collected the near-surface soil samples using hand tools, a private utility locate was not conducted.

The investigation consisted of collecting soil samples from 11 sampling areas (Areas 1 through 11) located along the western, southern, and southeastern Property boundaries, as shown on Figure 2. Three discrete soil samples were collected from each area at a depth of 0 to 0.5 foot below ground surface (bgs) using pre-cleaned, stainless steel tools. Prior to collecting each sample, ground cover, vegetation, and organic material were removed from the surface. Each sample was screened in the field for potential evidence of contamination using visual observations and notations of odor, and by

conducting headspace analysis using a photoionization detector (PID) to detect the presence of volatile organic vapors.

Soil samples were placed directly into laboratory-supplied 4-ounce jars, labeled with a unique sample ID, placed on ice in a cooler, and delivered to OnSite Environmental, Inc. of Redmond, Washington, under standard chain-of-custody protocols. The three discrete soil samples collected from each area were composited by the laboratory (one composite for each area) to ensure homogeneity in each composite sample. Each composite sample was analyzed for the following:

- Diesel- and lube oil-range petroleum hydrocarbons (DRPH and ORPH, respectively) by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Dx
- Organochlorine pesticides by U.S. Environmental Protection Agency (EPA) Method 8081B
- Chlorinated acid herbicides by EPA Method 8151A
- Resource Conservation and Recovery Act (RCRA) 8 metals by EPA Methods 7471B or 6010C

Analytical results of composite samples were compared to project action levels, which were established for this project by dividing the Washington State Model Toxics Control Act (MTCA) cleanup level for each analyte by the number of discrete sub-samples from which the composite sample was comprised. If the action level for any analyte was exceeded by the result of a composite sample, the individual discrete sub-samples from that area were then analyzed for that analyte. This sampling methodology ensures that each Composite Soil Sample Area is in compliance with MTCA cleanup levels.

## SOIL CONDITIONS AND ANALYTICAL RESULTS

Field screening of soil samples from each of the 11 sampling areas revealed no obvious visual or olfactory indications of soil contamination, and no elevated PID readings were observed in any of the soil samples.

The analytical results for the soil samples collected during the investigation at the Property are presented in Tables 1A through 4B and on Figures 3 and 4. The laboratory analytical report for the samples collected is included in Attachment A.

### Composite Soil Sample Results

Composite soil sample analytical results are presented in Tables 1A, 2A, 3, and 4A and summarized below:

- **Petroleum hydrocarbons.** DRPH and/or ORPH were detected in all 11 composite soil samples submitted for analysis at concentrations below the applicable MTCA Method A cleanup levels. Initially, all DRPH detections were flagged by the laboratory as being impacted by hydrocarbons in the lube oil range. ORPH concentrations in the samples collected from Areas 3, 4, 8, 9, and 10 were above the action level established for this project.

The soil samples contained a high percentage of organic materials, including bark and roots. Due to the potential for organic material causing interference in the analysis (i.e., a false positive), composite soil samples with ORPH concentrations above the action level (Areas 3, 4, 8, 9, and 10) were reanalyzed for DRPH and ORPH after using a silica gel cleanup procedure to remove



polar non-petroleum related compounds. After silica gel cleanup, DRPH was not detected in any of the reanalyzed samples. ORPH was detected in all five samples, but at much lower concentrations than those detected during the initial analysis, and all concentrations were below the action level.

- **Organochlorine pesticides.** The organochlorine pesticide dieldrin was detected at concentrations exceeding the MTCA Method B cleanup level in composite soil samples collected from Areas 1 through 10. Dieldrin was detected in the composite sample from Area 11 at a concentration below the MTCA cleanup level but above the action level for this project. The composite soil samples collected from Areas 4, 6, 7, and 9 contained concentrations of 4,4'-dichlorodiphenyldichloroethylene (4,4'-DDE) below the applicable MTCA cleanup level. The composite sample collected from Area 9 contained a concentration of 4,4'-dichlorodiphenyldichloroethane (4,4'-DDD) below the applicable MTCA cleanup level. Composite soil samples collected from Areas 3, 6, and 9 contained concentrations of 4,4'-dichlorodiphenyltrichloroethane (4,4'-DDT) below the applicable MTCA cleanup level. All concentrations of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT were below the applicable action levels.
- **Chlorinated acid herbicides.** The chlorinated acid herbicide pentachlorophenol was detected at a concentration below the MTCA Method B cleanup level and the project-specific action level in the composite soil sample collected from Area 5. No other herbicides were detected in composite soil samples collected from any of the sampling areas.
- **RCRA 8 Metals.** Lead was detected at a concentration exceeding the applicable MTCA Method A cleanup level in the composite sample collected from Area 2. Lead was detected at concentrations above the project-specific action level in the composite samples collected from Areas 3, 5, 7, and 8. Cadmium was detected at concentrations above the action level in the composite samples collected from Areas 3 and 5. Barium and chromium were detected in all composite soil samples at concentrations below the applicable MTCA cleanup levels and the action levels.

### Discrete Soil Sample Results

Based on the composite soil sample analytical results, discrete soil samples were analyzed individually for any sampling areas where the composite soil sample concentrations exceeded the project-specific action level determined for each analyte. Selected discrete soil samples were analyzed for one or more of the following: DRPH, ORPH, organochlorine pesticides, cadmium, and lead. Discrete soil sample analytical results are presented in Tables 1B, 2B, and 4B and summarized below.

- **Petroleum hydrocarbons.** Although none of the composite soil sample DRPH and ORPH results were above the action levels for these analytes, discrete soil samples collected from Areas 1 and 7 were analyzed for DRPH and ORPH by the laboratory for quality control purposes. ORPH was detected in all three samples from both areas at concentrations below the applicable MTCA Method A cleanup level. DRPH was not detected in samples from either area. ORPH concentrations detected in the discrete samples from each area were consistent with the concentrations detected in their respective composite soil samples.
- **Organochlorine pesticides.** Discrete soil samples from all 11 areas were analyzed for organochlorine pesticides. Dieldrin was detected at concentrations exceeding the applicable MTCA cleanup level in at least one discrete sample from all areas except Area 11, with a

maximum concentration of 2,200 micrograms per kilogram detected in sample SS2 collected from Area 9 in the southeast corner of the Property. Dieldrin concentrations for each discrete sample are shown on Figure 3. Samples collected from Areas 2, 3, 4, 5, 6, 7, and 9 contained one or more concentrations of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT at concentrations below the applicable cleanup levels.

- **RCRA 8 Metals.** Discrete soil samples collected from Areas 2, 3, 5, 7, and 8 were analyzed for lead. Samples collected from Areas 3 and 5 were also analyzed for cadmium. Concentrations of lead exceeding the MTCA Method A cleanup level were detected in one sample each from Areas 2, 5, and 7, as shown on Figure 4. Cadmium concentrations detected in samples from both areas were below the applicable cleanup level.

The discrete soil sample collected from the central portion of Area 5 (NS-05-SS2), which had the highest concentration of total lead (310 milligrams per kilogram), was also analyzed for toxicity characteristic leaching procedure (TCLP) lead by EPA Method 6010C/1311. TCLP lead was not detected above the laboratory reporting limit in this sample.

## DATA VALIDATION

SoundEarth contracted with Validata, LLC to conduct a Stage 2A level quality assurance/quality control (QA/QC) review of the analytical results. The data was reviewed using the guidance and quality control criteria documented in the EPA's National Functional Guidelines for Organic Data Review (1999 and 2008). The QC requirements that were reviewed included sample receipt, handling, and holding times, recoveries for method blanks, surrogates, spikes, field duplicates, and reporting limits.

- **Data Flags.** The analytical data for DRPH and ORPH (NWTPH-Dx analysis) were flagged "J" (as estimates) due to the laboratory reporting that lube oil range hydrocarbons (ORPH) impacted the DRPH results. The pesticide results for sample NS-03-SS2 were flagged "J" due to analysis outside of the holding times. The original sample analysis for NS-03-SS2 was conducted without addition of a surrogate standard, therefore the sample had to be rerun outside of holding time. All other QA/QC criteria were confirmed to be acceptable for the soil samples, and the analytical results are considered to be acceptable for use. A copy of the Validata, LLC Data Validation Report is provided as Attachment B.

## CONCLUSIONS AND RECOMMENDATIONS

The results of the subsurface investigation indicate that soils at depths of 0 to 6 inches in landscaping areas and planters at the Property are impacted with dieldrin at concentrations exceeding the applicable MTCA cleanup levels. With the exception of samples collected from Area 11 located on the western Property boundary, all sample areas contained at least one discrete soil sample with dieldrin concentrations exceeding the MTCA Method B cleanup level. A total of 20 out of 33 samples contained dieldrin above the MTCA cleanup level. Based on these results, dieldrin-impacted soil appears to be present along the majority of the southern Property boundary, the southern portion of the eastern Property boundary, and the landscaping areas directly west of the western Property boundary.

Lead impacts to near-surface soil appear to be more limited in extent, with only three discrete soil samples containing lead concentrations that exceed the MTCA Method A cleanup level. Lead exceedances were observed in sub-sample SS2 in Area 2 along the western Property boundary, and in

sub-samples SS2 and SS3 collected from Areas 5 and 7, respectively, located along the southern Property boundary. The sample with the highest lead concentration was also analyzed for TCLP lead, which was not detected above the laboratory reporting limit.

No evidence of impacts from DRPH, ORPH, herbicides, or other metals was observed in any of the near-surface soil samples collected from Areas 1 through 11.

SoundEarth recommends conducting hand auger soil borings to a depth of up to 4 feet bgs in Areas 1 through 10 near the highest surface soil detection in each area to determine the depth of the dieldrin impacts in soil. Concentrations of lead exceeding the cleanup level were also detected in these locations in Areas 2 and 5. Therefore, soil samples should be analyzed for lead as well as dieldrin in these two sampling areas. SoundEarth also recommends advancing one additional hand auger boring to a depth of 2 feet bgs in Area 7, where a lead concentration exceeding the MTCA Method A cleanup level was detected, to determine the depth of lead impacts.

## LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report are derived, in part, from data gathered by others, and from conditions evaluated when services were performed, and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We do not warrant and are not responsible for the accuracy or validity of work performed by others, or for the impacts of changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the use of segregated portions of this report.

Respectfully,

SoundEarth Strategies, Inc.



Clare Toichilin, LG  
Project Hydrogeologist



Rob Roberts  
Senior Scientist

Attachments: Figure 1, Property Location Map  
Figure 2, Sub-Sample Location Plan  
Figure 3, Soil Sub-Sample Analytical Results for Dieldrin  
Figure 4, Soil Sub-Sample Analytical Results for Lead  
Table 1A, Composite Soil Sample Analytical Results for TPH  
Table 1B, Discrete Soil Sample Analytical Results for TPH  
Table 2A, Composite Soil Sample Analytical Results for Pesticides  
Table 2B, Discrete Soil Sample Analytical Results for Pesticides

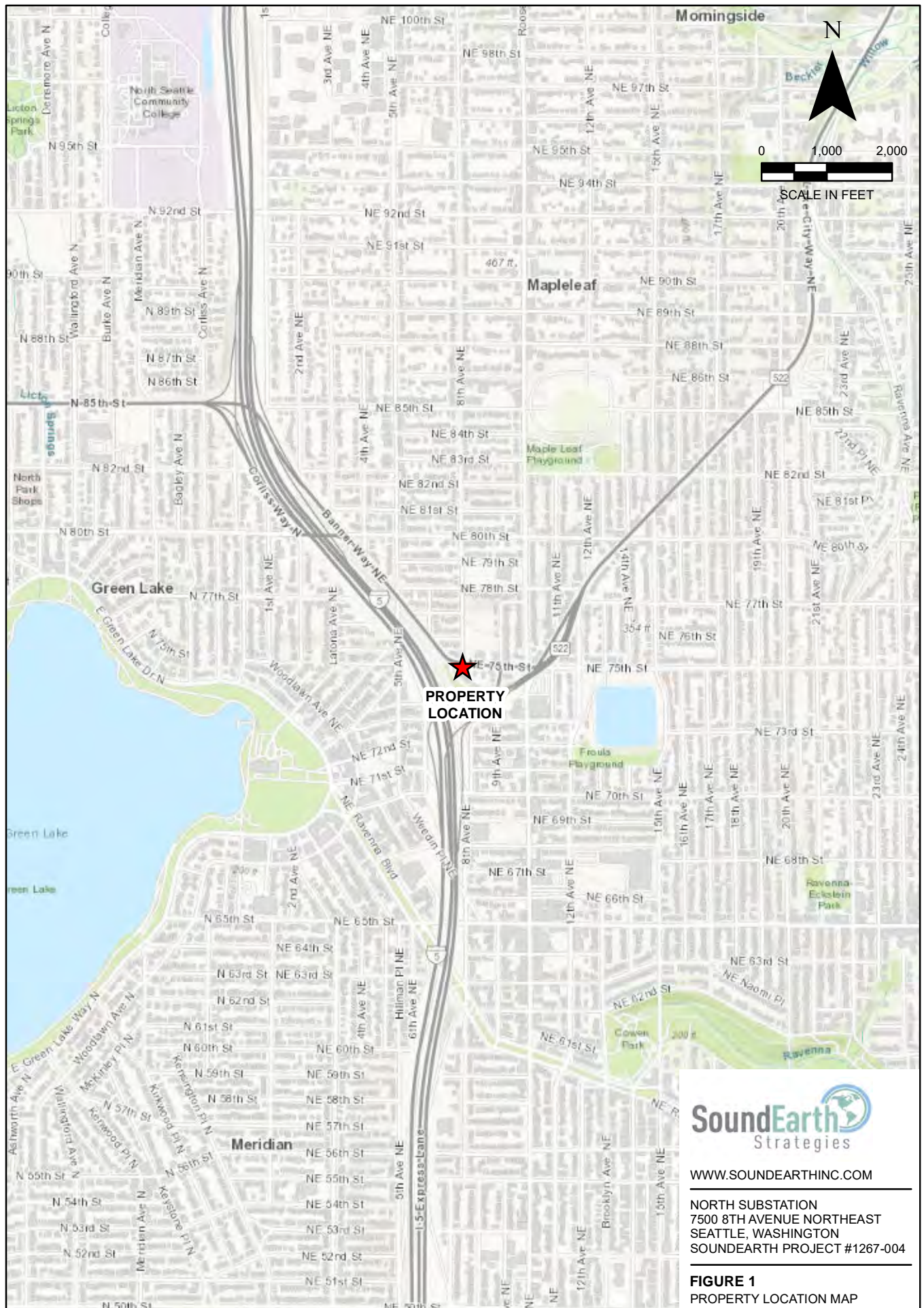
Table 3, Composite Soil Sample Analytical Results for Herbicides  
Table 4A, Composite Soil Sample Analytical Results for RCRA 8 Metals  
Table 4B, Discrete Soil Sample Analytical Results for RCRA 8 Metals  
A, Laboratory Report  
*OnSite Environmental, Inc. #1705-255*  
B, Data Validation Report

cc: Ms. Cierra Holland, Seattle City Light

CJT/CER:rt/hsb

## FIGURES













**FIGURE 3**  
SOIL SUB-SAMPLE ANALYTICAL  
RESULTS FOR DIELDRIN





## TABLES





**Table 1A**  
**Composite Soil Sample Analytical Results for TPH**  
**Seattle City Light, North Substation Property**  
**7500 8th Avenue Northeast**  
**Seattle, Washington**

Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	Analytical Results (milligrams per kilogram )			
				DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>	DRPH <sup>(2)</sup>	ORPH <sup>(2)</sup>
NS-COMP-01	SoundEarth	05/18/17	0–0.5	41 <sup>N,J</sup>	170 <sup>J</sup>	--	--
NS-COMP-02				43 <sup>N,J</sup>	320 <sup>J</sup>	--	--
NS-COMP-03				240 <sup>N,J</sup>	1300 <sup>J</sup>	<83 <sup>U1</sup>	280
NS-COMP-04				180 <sup>N,J</sup>	1100 <sup>J</sup>	<37	170
NS-COMP-05				61 <sup>N,J</sup>	400 <sub>J</sub>	--	--
NS-COMP-06				150 <sup>N,J</sup>	570 <sup>J</sup>	--	--
NS-COMP-07				46 <sup>N,J</sup>	210 <sup>J</sup>	--	--
NS-COMP-08				160 <sup>N,J</sup>	790 <sup>J</sup>	<41	220
NS-COMP-09				140 <sup>N,J</sup>	790 <sup>J</sup>	<41	190
NS-COMP-10				240 <sup>N,J</sup>	960 <sup>J</sup>	<57 <sup>U1</sup>	260
NS-COMP-11				<35 <sup>J</sup>	160 <sup>J</sup>	--	--
Project Action Level <sup>(3)</sup>				667	667	667	667
MTCA Cleanup Level for Soil <sup>(4)</sup>				2,000	2,000	2,000	2,000

**NOTES:**

**Bold** denotes concentration exceeds Project Action Level but below MTCA Cleanup Level.

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

<sup>(1)</sup>Analyzed by Method NWTPH-Dx.

<sup>(2)</sup>Analyzed by Method NWTPH-Dx, with sample extract treated with a sulfuric acid/silica gel cleanup procedure.

<sup>(3)</sup>Project Action Level determined by dividing the MTCA Cleanup Level by the number of discrete samples composited.

<sup>(4)</sup>MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

**Laboratory Notes:**

<sup>N</sup>Hydrocarbons in the lube oil range are impacting the diesel range result.

<sup>U1</sup>The practical quantitation limit is elevated due to interferences present in the sample.

<sup>JR</sup>result flagged as estimated.

-- = not analyzed/not applicable

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

DRPH = diesel-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

TPH = total petroleum hydrocarbons

WAC = Washington Administrative Code



**Table 1B**  
**Discrete Soil Sample Analytical Results for TPH**  
**Seattle City Light, North Substation Property**  
**7500 8th Avenue Northeast**  
**Seattle, Washington**

Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	Analytical Results (milligrams per kilogram )	
				DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>
NS-01-SS1	SoundEarth	05/18/17	0–0.5	<38	120
NS-01-SS2				<32	160
NS-01-SS3				<47	310
NS-07-SS1				<36	220
NS-07-SS2				<37	170
NS-07-SS3				<45 <sup>U1</sup>	360
MTCA Cleanup Level for Soil <sup>(2)</sup>				2,000	2,000

**NOTES:**

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

<sup>(1)</sup> Analyzed by Method NWTPH-Dx.

<sup>(2)</sup> MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

**Laboratory Note:**

<sup>U1</sup> The practical quantitation limit is elevated due to interferences present in the sample.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

DRPH = diesel-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

TPH = total petroleum hydrocarbons

WAC = Washington Administrative Code



Table 2B  
Discrete Soil Sample Analytical Results for Pesticides  
Seattle City Light, North Substation Property  
7500 8th Avenue Northeast  
Seattle, Washington

Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results <sup>(1)</sup> (micrograms per kilogram)																						
			alpha-BHC	gamma-BHC	beta-BHC	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	alpha-Chlordane	Total Chlordane	4,4'-DDE	Endosulfan I	Dieldrin	Endrin	4,4'-DDD	Endosulfan II	4,4'-DDT	Endrin Aldehyde	Methoxychlor	Endosulfan Sulfate	Endrin Ketone	Toxaphene	
NS-01-SS1	05/18/17	0-0.5	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<15	<15	<30	<15	<7.6	44	<15	<15	<15	<15	<15	<15	<15	<15	<76	
NS-01-SS2			<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<13	<26	<13	<6.4	56	<13	<13	<13	<13	<13	<13	<13	<13	<64	
NS-01-SS3			<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<19	<19	<38	<19	<9.3	100	<19	<19	<19	<19	<19	<19	<19	<19	<93	
NS-02-SS1			<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<15	<15	<30	<15	<7.3	60	<15	<15	<15	<15	<15	<15	<15	<15	<15	<73
NS-02-SS2			<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<15	<15	<30	<15	<7.7	140	<15	<15	<15	<15	<15	<15	<15	<15	<15	<77
NS-02-SS3			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	<14	<28	<14	<7.1	110	<14	<14	<14	<14	<14	<14	<14	<14	<14	<71
NS-03-SS1			<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13	<13	<26	<13	<6.7	490	<13	<13	<13	<13	<13	<13	<13	<13	<13	<67
NS-03-SS2			<7.9 <sup>j</sup>	<7.9 <sup>j</sup>	<7.9 <sup>j</sup>	<7.9 <sup>j</sup>	<7.9 <sup>j</sup>	<7.9 <sup>j</sup>	<7.9 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<32 <sup>j</sup>	<16 <sup>j</sup>	<7.9 <sup>j</sup>	420 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<16 <sup>j</sup>	<79 <sup>j</sup>
NS-03-SS3			<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<16	<16	<32	27	<8.2	360	<16	<16	<16	<16	<16	<16	<16	<16	<16	<82
NS-04-SS1			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	<14	<28	<14	<7.1	76	<14	<14	<14	<14	<14	<14	<14	<14	<14	<71
NS-04-SS2			<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<15	<15	<30	17	<7.5	180	<15	<15	<15	<15	<15	<15	<15	<15	<15	<75
NS-04-SS3			<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<14	<14	<28	17	<7.2	81	<14	<14	<14	<14	<14	<14	<14	<14	<14	<72
NS-05-SS1			<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<15	<15	<30	<15	<7.3	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<73
NS-05-SS2			<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13	<13	<26	<13	<6.7	1,300	<13	<13	<13	27	<13	<13	<13	<13	<13	<67
NS-05-SS3			<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<13	<26	<13	<6.3	60	<13	<13	<13	<13	<13	<13	<13	<13	<13	<63
NS-06-SS1			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	<14	<28	370	<7.1	63	<14	160	<14	190	<14	<14	<14	<14	<14	<71
NS-06-SS2			<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<14	<14	<28	<14	<6.8	380	<14	<14	<14	<14	<14	<14	<14	<14	<14	<68
NS-06-SS3			<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<15	<15	<30	<15	<7.5	51	<15	<15	<15	16	<15	<15	<15	<15	<15	<75
NS-07-SS1			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	<14	<28	18	<7.1	190	<14	<14	<14	<14	<14	<14	<14	<14	<14	<71
NS-07-SS2			<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<15	<15	<30	<15	<7.4	100	<15	<15	<15	<15	<15	<15	<15	<15	<15	<74
NS-07-SS3			<8.4	<8.4	<8.4	<8.4	<8.4	<8.4	<8.4	<17	<17	<34	<17	<8.4	18	<17	<17	<17	<17	<17	<17	<17	<17	<17	<84
NS-08-SS1			<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<16	<16	<32	<16	<7.8	50	<16	<16	<16	<16	<16	<16	<16	<16	<16	<78
NS-08-SS2			<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<14	<14	<28	<14	<6.8	150	<14	<14	<14	<14	<14	<14	<14	<14	<14	<68
NS-08-SS3			<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<9.7	<19	<19	<38	<19	<9.7	160	<19	<19	<19	<19	<19	<19	<19	<19	<19	<97
NS-09-SS1			<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<16	<16	<32	110	<7.9	<16	<16	77	<16	22	<16	<16	<16	<16	<16	<79
NS-09-SS2			<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<15	<15	<30	22	<7.4	2,200	<15	<15	<15	<15	<15	<15	<15	<15	<15	<74
NS-09-SS3			<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<18	<18	<36	<18	<8.9	160	<18	<18	<18	<18	<18	<18	<18	<18	<18	<89
NS-10-SS1			<10	<10	<10	<10	<10	<10	<10	<21	<21	<42	<21	<10	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<100
NS-10-SS2			<10	<10	<10	<10	<10	<10	<10	<20	<20	<40	<20	<10	240	<20	<20	<20	<20	<20	<20	<20	<20	<20	<100
NS-10-SS3			<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<15	<15	<30	<15	<7.6	110	<15	<15	<15	<15	<15	<15	<15	<15	<15	<76
NS-11-SS1			<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<14	<14	<28	<14	<6.8	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<68
NS-11-SS2			<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<14	<14	<28	<14	<6.8	53	<14	<14	<14	<14	<14	<14	<14	<14	<14	<68
NS-11-SS3			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	<14	<28	<14	<7.1	24	<14	<14	<14	<14	<14	<14	<14	<14	<14	<71
MTCA Cleanup Level for Soil			158.73 <sup>(3)</sup>	909 <sup>(3)</sup>	555 <sup>(3)</sup>	NE	222 <sup>(3)</sup>	58.8 <sup>(3)</sup>	109.89 <sup>(3)</sup>	NE	NE	2,857 <sup>(3)</sup>	2,941 <sup>(3)</sup>	NE	62.5 <sup>(3)</sup>	24,000 <sup>(2)</sup>	4,166 <sup>(3)</sup>	NE	2,941 <sup>(3)</sup>	NE	400,000 <sup>(2)</sup>	480,000 <sup>(2)</sup>	NE	909 <sup>(3)</sup>	

NOTES:

Red denotes concentration exceeds MTCA cleanup level for soil.

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

<sup>(1)</sup>Samples analyzed by EPA Method 8081B.

<sup>(2)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non cancer, Direct Contact, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

<sup>(3)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Cancer, Direct Contact, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

Laboratory Note:

<sup>j</sup>Result flagged as estimated.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

BHC = hexachlorocyclohexane

CLARC = Cleanup Levels and Risk Calculations

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

NE = not established

WAC = Washington Administrative Code



Table 2A  
Composite Soil Sample Analytical Results for Pesticides  
Seattle City Light, North Substation Property  
7500 8th Avenue Northeast  
Seattle, Washington

Sample ID	Date Sampled	Analytical Results <sup>(1)</sup> (micrograms per kilogram)																							
		Depth (feet bgs)	alpha-BHC	gamma-BHC	beta-BHC	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	alpha-Chlordane	Total Chlordane	4,4'-DDE	Endosulfan I	Dieldrin	Endrin	4,4'-DDD	Endosulfan II	4,4'-DDT	Endrin Aldehyde	Methoxychlor	Endosulfan Sulfate	Endrin Ketone	Toxaphene	
NS-COMP-01	05/18/17	0–0.5	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<16	<16	<32	<16	<7.8	130	<16	<16	<16	<16	<16	<16	<16	<16	<78	
NS-COMP-02			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	<14	<28	<14	<7.1	130	<14	<14	<14	<14	<14	<14	<14	<14	<71
NS-COMP-03			<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<16	<16	<32	<16	<7.8	450	<16	<16	<16	18	<16	<16	<16	<16	<78
NS-COMP-04			<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<15	<15	<30	20	<7.3	140	<15	<15	<15	<15	<15	<15	<15	<15	<73
NS-COMP-05			<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<14	<14	<28	<14	<6.8	420	<14	<14	<14	<14	<14	<14	<14	<14	<68
NS-COMP-06			<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<14	<14	<28	110	<7.2	270	<14	<14	<14	120	<14	<14	<14	<14	<72
NS-COMP-07			<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<15	<15	<30	21	<7.7	180	<15	<15	<15	<15	<15	<15	<15	<15	<77
NS-COMP-08			<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<16	<16	<32	<16	<8.2	230	<16	<16	<16	<16	<16	<16	<16	<16	<82
NS-COMP-09			<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<16	<16	<32	70	<8.2	620	<16	33	<16	74	<16	<16	<16	<16	<82
NS-COMP-10			<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<17	<17	<34	<17	<8.6	230	<17	<17	<17	<17	<17	<17	<17	<17	<86
NS-COMP-11			<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	<14	<14	<28	<14	<7.0	37	<14	<14	<14	<14	<14	<14	<14	<14	<70
Project Action Level <sup>(2)</sup>			52.91	303	185	NE	74	19.6	36.63	NE	NE	952	980	NE	20.8	8,000	1,389	NE	980	NE	133,333	160,000	NE	303	
MTCA Cleanup Level for Soil			158.73 <sup>(4)</sup>	909 <sup>(4)</sup>	555 <sup>(4)</sup>	NE	222 <sup>(4)</sup>	58.8 <sup>(4)</sup>	109.89 <sup>(4)</sup>	NE	NE	2,857 <sup>(4)</sup>	2,941 <sup>(4)</sup>	NE	62.5 <sup>(4)</sup>	24,000 <sup>(3)</sup>	4,166 <sup>(4)</sup>	NE	2,941 <sup>(4)</sup>	NE	400,000 <sup>(3)</sup>	480,000 <sup>(3)</sup>	NE	909 <sup>(4)</sup>	

NOTES:

Red denotes concentration exceeds MTCA cleanup level for soil.

Bold denotes concentration exceeds Project Action Level but below MTCA Cleanup Level.

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

<sup>(1)</sup>Samples analyzed by EPA Method 8081B.

<sup>(2)</sup>Project Action Level determined by dividing the MTCA Cleanup Level by the number of discrete samples composited.

<sup>(3)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non cancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

<sup>(4)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Cancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

BHC = hexachlorocyclohexane

CLARC = Cleanup Levels and Risk Calculations

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

NE = not established

WAC = Washington Administrative Code





**Table 3**  
**Composite Soil Sample Analytical Results for Herbicides**  
**Seattle City Light, North Substation Property**  
**7500 8th Avenue Northeast**  
**Seattle, Washington**

Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	Analytical Results <sup>(1)</sup> (micrograms per kilogram)										
				Dalapon	Dicamba	MCP	MCPA	Dichlorprop	2,4-D	Pentachlorophenol	2,4,5-TP (Silvex)	2,4,5-T	2,4-DB	Dinoseb
NS-COMP-01	SoundEarth	05/18/17	0–0.5	<360	<15	<1,500	<1,500	<110	<15	<7.4	<15	<15	<15	<15
NS-COMP-02				<330	<13	<1,300	<1,300	<100	<13	<6.7	<13	<13	<13	<13
NS-COMP-03				<360	<15	<1,500	<1,500	<110	<15	<7.4	<15	<15	<15	<15
NS-COMP-04				<340	<14	<1,400	<1,400	<100	<14	<7.0	<14	<14	<14	<14
NS-COMP-05				<310	<13	<1,300	<1,300	<96	<13	9.1	<13	<13	<13	<13
NS-COMP-06				<330	<14	<1,400	<1,400	<100	<14	<6.9	<14	<14	<14	<14
NS-COMP-07				<350	<14	<1,400	<1,400	<110	<14	<7.3	<15	<15	<15	<15
NS-COMP-08				<370	<15	<1,500	<1,500	<120	<15	<7.8	<16	<15	<15	<15
NS-COMP-09				<380	<15	<1,500	<1,500	<120	<15	<7.8	<16	<16	<16	<16
NS-COMP-10				<390	<16	<1,600	<1,600	<120	<16	<8.2	<16	<16	<16	<16
NS-COMP-11				<320	<13	<1,300	<1,300	<99	<13	<6.6	<13	<13	<13	<13
Project Action Level <sup>(2)</sup>				800,000	800,000	26,667	3,333	NE	266,667	833	213,333	266,667	213,333	26,667
MTCA Cleanup Level for Soil				2,400,000 <sup>(3)</sup>	2,400,000 <sup>(3)</sup>	80,000 <sup>(3)</sup>	10,000 <sup>(3)</sup>	NE	800,000 <sup>(3)</sup>	2,500 <sup>(4)</sup>	640,000 <sup>(3)</sup>	800,000 <sup>(3)</sup>	640,000 <sup>(3)</sup>	80,000 <sup>(3)</sup>

**NOTES:**

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

**Bold** denotes concentration exceeds Project Action Level but below MTCA Cleanup Level.

<sup>(1)</sup>Samples analyzed by EPA Method 8151A.

<sup>(2)</sup>Project Action Level determined by dividing the MTCA Cleanup Level by the number of discrete samples composited.

<sup>(3)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non cancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

<sup>(4)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Cancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

< = not detected at a concentration exceeding the laboratory reporting limit

2,4,5-T = 2,4,5-trichlorophenoxyacetic acid

2,4,5-TP = 2-(2,4,5-trichlorophenoxy)propanoic acid

2,4-D = 2,4-dichlorophenoxyacetic acid

2,4-DB = 4-(2,4-dichlorophenoxy)butyric acid

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

EPA = U.S. Environmental Protection Agency

MCPA = 2-methyl-4-chlorophenoxyacetic acid

MCP = mecoprop or methylchlorophenoxypropionic acid

MTCA = Washington State Model Toxics Control Act

NE = not established

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code



**Table 4A**  
**Composite Soil Sample Analytical Results for RCRA 8 Metals**  
**Seattle City Light, North Substation Property**  
**7500 8th Avenue Northeast**  
**Seattle, Washington**

Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results <sup>(1)</sup> (milligrams per kilogram)							
			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
NS-COMP-01	05/18/17	0–0.5	<16	110	<0.78	47	53	<0.39	<16	<1.6
NS-COMP-02			<14	85	<0.71	47	260	<0.35	<14	<1.4
NS-COMP-03			<16	84	0.80	50	92	<0.39	<16	<1.6
NS-COMP-04			<15	81	<0.73	58	72	<0.37	<15	<1.5
NS-COMP-05			<14	86	0.91	44	210	<0.34	<14	<1.4
NS-COMP-06			<14	87	<0.72	41	45	<0.36	<14	<1.4
NS-COMP-07			<15	98	<0.77	49	160	<0.38	<15	<1.5
NS-COMP-08			<16	100	<0.82	47	110	<0.41	<16	<1.6
NS-COMP-09			<16	220	<0.82	39	63	<0.41	<16	<1.6
NS-COMP-10			<17	110	<0.86	44	35	<0.43	<17	<1.7
NS-COMP-11			<14	83	<0.70	66	27	<0.35	<14	<1.4
Project Action Level <sup>(2)</sup>			6.7	5333	0.67	667	83	0.67	133	133
MTCA Cleanup Level for Soil			20 <sup>(3)</sup>	16,000 <sup>(4)</sup>	2 <sup>(3)</sup>	2,000 <sup>(3)</sup>	250 <sup>(3)</sup>	2 <sup>(3)</sup>	400 <sup>(4)</sup>	400 <sup>(4)</sup>

NOTES:

**Red** denotes concentration exceeds MTCA cleanup level for soil.

**Bold** denotes concentration exceeds Project Action Level but below MTCA Cleanup Level.

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

<sup>(1)</sup>Samples analyzed by EPA Method 6010C/7471B.

<sup>(2)</sup>Project Action Level determined by dividing the MTCA Cleanup Level by the number of discrete samples composited.

<sup>(3)</sup>MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

<sup>(4)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Noncancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

RCRA = Resource Conservation and Recovery Act

WAC = Washington Administrative Code



**Table 4B**  
**Discrete Soil Sample Analytical Results for RCRA 8 Metals**  
**Seattle City Light, North Substation Property**  
**7500 8th Avenue Northeast**  
**Seattle, Washington**

Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results								
			Total Metals <sup>(1)</sup> (milligrams per kilogram)								TCLP <sup>(2)</sup> (milligrams per liter)
			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Lead
NS-02-SS1	05/18/17	0–0.5	--	--	--	--	51	--	--	--	--
NS-02-SS2			--	--	--	--	280	--	--	--	--
NS-02-SS3			--	--	--	--	100	--	--	--	--
NS-03-SS1			--	--	<0.67	--	110	--	--	--	--
NS-03-SS2			--	--	1.2	--	72	--	--	--	--
NS-03-SS3			--	--	<0.82	--	75	--	--	--	--
NS-05-SS1			--	--	0.76	--	210	--	--	--	--
NS-05-SS2			--	--	1.5	--	310	--	--	--	<0.20
NS-05-SS3			--	--	<0.63	--	60	--	--	--	--
NS-07-SS1			--	--	--	--	52	--	--	--	--
NS-07-SS2			--	--	--	--	78	--	--	--	--
NS-07-SS3			--	--	--	--	270	--	--	--	--
NS-08-SS1			--	--	--	--	120	--	--	--	--
NS-08-SS2			--	--	--	--	110	--	--	--	--
NS-08-SS3			--	--	--	--	54	--	--	--	--
MTCA Cleanup Level for Soil			20 <sup>(3)</sup>	16,000 <sup>(4)</sup>	2 <sup>(3)</sup>	2,000 <sup>(3)</sup>	250 <sup>(3)</sup>	2 <sup>(3)</sup>	400 <sup>(4)</sup>	400 <sup>(4)</sup>	5 <sup>(5)</sup>

**NOTES:**

**Red** denotes concentration exceeds MTCA cleanup level for soil.

Sample analyses conducted by OnSite Environmental, Inc. of Redmond, Washington.

<sup>(1)</sup>Samples analyzed by EPA Method 6010C/7471B.

<sup>(2)</sup>Samples analyzed by EPA Method 6010C and 1311.

<sup>(3)</sup>MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, Unrestricted Land Uses, revised November 2007.

<sup>(4)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Noncancer, Direct Contact, CLARC Website <<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>>.

<sup>(5)</sup>Maximum concentration of contaminants for the toxicity characteristic, Section 090(8) of Chapter 173-303 of the WAC.

< = not detected at a concentration exceeding the laboratory reporting limit

-- = no data

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

RCRA = Resource Conservation and Recovery Act

TCLP = Toxicity characteristic leaching procedure

WAC = Washington Administrative Code

**ATTACHMENT A  
LABORATORY REPORT**

***OnSite Environmental, Inc. #1705-255***



**OnSite  
Environmental Inc.**

14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

June 16, 2017

Rob Roberts  
Sound Earth Strategies  
2811 Fairview Avenue East, Suite 2000  
Seattle, WA 98102

Re: Analytical Data for Project 1267-004  
Laboratory Reference No. 1705-255

Dear Rob:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

### Case Narrative

Samples were collected on May 18, 2017 and received by the laboratory on May 19, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### Organochlorine Pesticides by EPA 8081B Analysis

Due to negative effects of the matrix from the samples on the instrument, values for 4,4'-DDT, Methoxychlor, and Endrin Ketone in the continuing calibration verification standards (CCVs) were low. Therefore, values can be greater than reported. No further action was performed.

Because of DDT breakdown, values for the analyte 4,4'-DDD in the bracketing continuing calibration verification standards (CCV) were high.

Due to the fact that the degradation of the CCV standards was reproducible after re-injecting the sample extracts, the CCV degradation problem was attributed to the matrix of these samples.

Sample NS-03-SS2 (05-255-08) has no surrogate recoveries because of extraction error. It was re-extracted outside of hold time to verify Dieldrin hit. Both runs are reported.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-01</b>						
Laboratory ID:	05-255-01,02,03 Comp.					
Diesel Range Organics	41	39	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	170	78	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	49	50-150				Q
<b>Client ID: NS-COMP-02</b>						
Laboratory ID:	05-255-04,05,06 Comp.					
Diesel Range Organics	43	36	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	320	71	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	80	50-150				
<b>Client ID: NS-COMP-03</b>						
Laboratory ID:	05-255-07,08,09 Comp.					
Diesel Range Organics	240	39	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	1300	78	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				
<b>Client ID: NS-COMP-04</b>						
Laboratory ID:	05-255-10,11,12 Comp.					
Diesel Range Organics	180	37	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	1100	74	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	82	50-150				
<b>Client ID: NS-COMP-05</b>						
Laboratory ID:	05-255-13,14,15 Comp.					
Diesel Range Organics	61	34	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	400	68	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	60	50-150				
<b>Client ID: NS-COMP-06</b>						
Laboratory ID:	05-255-16,17,18 Comp.					
Diesel Range Organics	150	36	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	570	72	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	51	50-150				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-07</b>						
Laboratory ID:	05-255-19,20,21 Comp.					
Diesel Range Organics	46	38	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	210	77	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	28	50-150				Q
<b>Client ID: NS-COMP-08</b>						
Laboratory ID:	05-255-22,23,24 Comp.					
Diesel Range Organics	160	41	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	790	82	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	76	50-150				
<b>Client ID: NS-COMP-09</b>						
Laboratory ID:	05-255-25,26,27 Comp.					
Diesel Range Organics	140	41	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	790	82	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				
<b>Client ID: NS-COMP-10</b>						
Laboratory ID:	05-255-28,29,30 Comp.					
Diesel Range Organics	240	43	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	960	86	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				
<b>Client ID: NS-COMP-11</b>						
Laboratory ID:	05-255-31,32,33 Comp.					
Diesel Range Organics	ND	35	NWTPH-Dx	5-24-17	5-24-17	
Lube Oil Range Organics	160	70	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	69	50-150				



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**NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0524S1					
Diesel Range Organics	<b>ND</b>	25	NWTPH-Dx	5-24-17	5-24-17	
Lube Oil Range Organics	<b>ND</b>	50	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	105	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	05-271-01							
	ORIG	DUP						
Diesel Range	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	
Lube Oil Range	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				83	89	50-150		



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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-03</b>						
Laboratory ID:	05-255-07,08,09 Comp.					
Diesel Range Organics	<b>ND</b>	83	NWTPH-Dx	5-24-17	5-30-17	U1,X1
Lube Oil	<b>280</b>	78	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate: o-Terphenyl	Percent Recovery 83	Control Limits 50-150				
<b>Client ID: NS-COMP-04</b>						
Laboratory ID:	05-255-10,11,12 Comp.					
Diesel Range Organics	<b>ND</b>	37	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil	<b>170</b>	74	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate: o-Terphenyl	Percent Recovery 78	Control Limits 50-150				
<b>Client ID: NS-COMP-08</b>						
Laboratory ID:	05-255-22,23,24 Comp.					
Diesel Range Organics	<b>ND</b>	41	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil	<b>220</b>	82	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate: o-Terphenyl	Percent Recovery 79	Control Limits 50-150				
<b>Client ID: NS-COMP-09</b>						
Laboratory ID:	05-255-25,26,27 Comp.					
Diesel Range Organics	<b>ND</b>	41	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil	<b>190</b>	82	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate: o-Terphenyl	Percent Recovery 69	Control Limits 50-150				
<b>Client ID: NS-COMP-10</b>						
Laboratory ID:	05-255-28,29,30 Comp.					
Diesel Range Organics	<b>ND</b>	57	NWTPH-Dx	5-24-17	5-30-17	U1,X1
Lube Oil	<b>260</b>	86	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate: o-Terphenyl	Percent Recovery 74	Control Limits 50-150				



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**NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0524S1					
Diesel Range Organics	ND	25	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	121	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	05-271-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
Surrogate:								
o-Terphenyl				83	89	50-150		



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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-01-SS1</b>					
Laboratory ID:	05-255-01					
Diesel Range Organics	<b>ND</b>	38	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>120</b>	76	NWTPH-Dx	5-30-17	5-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				
<b>Client ID:</b>	<b>NS-01-SS2</b>					
Laboratory ID:	05-255-02					
Diesel Range Organics	<b>ND</b>	32	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>160</b>	64	NWTPH-Dx	5-30-17	5-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
<b>Client ID:</b>	<b>NS-01-SS3</b>					
Laboratory ID:	05-255-03					
Diesel Range Organics	<b>ND</b>	47	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>310</b>	93	NWTPH-Dx	5-30-17	5-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
<b>Client ID:</b>	<b>NS-07-SS1</b>					
Laboratory ID:	05-255-19					
Diesel Range Organics	<b>ND</b>	36	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>220</b>	71	NWTPH-Dx	5-30-17	5-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				
<b>Client ID:</b>	<b>NS-07-SS2</b>					
Laboratory ID:	05-255-20					
Diesel Range Organics	<b>ND</b>	37	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>170</b>	74	NWTPH-Dx	5-30-17	5-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				
<b>Client ID:</b>	<b>NS-07-SS3</b>					
Laboratory ID:	05-255-21					
Diesel Range Organics	<b>ND</b>	45	NWTPH-Dx	5-30-17	5-31-17	U1
Lube Oil Range Organics	<b>360</b>	84	NWTPH-Dx	5-30-17	5-31-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				



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**NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0530S2					
Diesel Range Organics	<b>ND</b>	25	NWTPH-Dx	5-30-17	5-30-17	
Lube Oil Range Organics	<b>ND</b>	50	NWTPH-Dx	5-30-17	5-30-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	84	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	05-325-01							
	ORIG	DUP						
Diesel Range	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	
Lube Oil Range	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	
Surrogate:								
<i>o</i> -Terphenyl				89	103	50-150		



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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-01</b>				
Laboratory ID:		05-255-01,02,03 Comp.				
alpha-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Dieldrin	130	16	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	78	EPA 8081B	5-24-17	5-26-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	46-106				
DCB	81	53-122				





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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-02</b>				
Laboratory ID:		05-255-04,05,06 Comp.				
alpha-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	14	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Dieldrin	130	14	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	ND	14	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	71	EPA 8081B	5-24-17	5-26-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	76	46-106				
DCB	77	53-122				



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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-03</b>				
Laboratory ID:		05-255-07,08,09 Comp.				
alpha-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Dieldrin	450	16	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	18	16	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	78	EPA 8081B	5-24-17	5-26-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	46-106				
DCB	76	53-122				



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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-04</b>				
Laboratory ID:		05-255-10,11,12 Comp.				
alpha-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.3	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	20	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Dieldrin	140	15	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	15	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	15	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	73	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	46-106				
DCB	85	53-122				



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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-05</b>				
Laboratory ID:		05-255-13,14,15 Comp.				
alpha-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Dieldrin	420	14	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	68	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	77	46-106				
DCB	82	53-122				



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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-06</b>				
Laboratory ID:		05-255-16,17,18 Comp.				
alpha-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.2	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	110	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Dieldrin	270	14	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	120	14	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	72	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	67	53-122				



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**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-07</b>				
Laboratory ID:		05-255-19,20,21 Comp.				
alpha-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.7	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	21	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Dieldrin	180	15	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	15	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	15	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	77	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	82	46-106				
DCB	81	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-08</b>						
Laboratory ID: 05-255-22,23,24 Comp.						
alpha-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Dieldrin	230	16	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	16	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	82	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	73	46-106				
DCB	75	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-09</b>				
Laboratory ID:		05-255-25,26,27 Comp.				
alpha-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	70	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Dieldrin	620	16	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	33	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	74	16	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	82	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	75	46-106				
DCB	78	53-122				





Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-10</b>				
Laboratory ID:		05-255-28,29,30 Comp.				
alpha-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	8.6	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	17	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	17	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Dieldrin	230	17	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	17	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	17	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	17	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	17	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	17	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	17	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	86	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	81	46-106				
DCB	81	53-122				



Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>NS-COMP-11</b>				
Laboratory ID:		05-255-31,32,33 Comp.				
alpha-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.0	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Dieldrin	37	14	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	70	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	80	46-106				
DCB	83	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0524S2					
alpha-BHC	ND	5.0	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	5.0	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	5.0	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	5.0	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	5.0	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	5.0	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	5.0	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	10	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	10	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	10	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	5.0	EPA 8081B	5-24-17	5-26-17	
Dieldrin	ND	10	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	10	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	10	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	10	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	ND	10	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	10	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	10	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	10	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	10	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	50	EPA 8081B	5-24-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	97	46-106				
DCB	103	53-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>MATRIX SPIKES</b>								
Laboratory ID:	05-255-22, 23, 24							
	MS	MSD	MS	MSD	MS	MSD		
gamma-BHC	36.6	40.7	50.0	50.0	ND	73 81	39-114	11 13
Heptachlor	35.2	37.4	50.0	50.0	ND	70 75	43-107	6 12
Aldrin	34.0	36.8	50.0	50.0	ND	68 74	42-117	8 15
Dieldrin	203	223	125	125	141	50 66	39-115	9 10
Endrin	85.0	94.8	125	125	ND	68 76	43-113	11 11
4,4'-DDT	84.8	79.8	125	125	ND	68 64	24-117	6 19
Surrogate:								
TCMX					70	78	46-106	
DCB					74	80	53-122	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-01-SS1</b>					
Laboratory ID:	05-255-01					
alpha-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	7.6	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Dieldrin	44	15	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	76	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	46-106				
DCB	73	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-01-SS2</b>					
Laboratory ID:	05-255-02					
alpha-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.4	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Dieldrin	56	13	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	13	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	64	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	46-106				
DCB	69	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-01-SS3</b>					
Laboratory ID:	05-255-03					
alpha-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	9.3	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	19	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	19	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	19	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Dieldrin	100	19	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	19	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	19	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	19	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	19	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	19	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	19	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	19	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	19	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	93	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	54	46-106				
DCB	55	53-122				





Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-02-SS1</b>					
<b>Laboratory ID:</b>	<b>05-255-04</b>					
alpha-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	7.3	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Dieldrin	60	15	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	73	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	46-106				
DCB	68	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-02-SS2</b>					
Laboratory ID:	05-255-05					
alpha-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.7	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Dieldrin	140	15	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	77	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	67	46-106				
DCB	60	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-02-SS3</b>					
Laboratory ID:	05-255-06					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Dieldrin	110	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	46-106				
DCB	65	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-03-SS1</b>					
Laboratory ID:	05-255-07					
alpha-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	6.7	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Dieldrin	490	13	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	13	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	67	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	46-106				
DCB	62	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-03-SS2</b>					
<b>Laboratory ID:</b>	<b>05-255-08</b>					
alpha-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.9	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Dieldrin	270	16	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	79	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	---	46-106				
DCB	---	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-03-SS2</b>					
Laboratory ID:	05-255-08					
alpha-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
gamma-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
beta-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
delta-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Heptachlor	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Aldrin	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Heptachlor Epoxide	ND	7.9	EPA 8081B	6-9-17	6-9-17	
gamma-Chlordane	ND	16	EPA 8081B	6-9-17	6-9-17	
alpha-Chlordane	ND	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDE	ND	16	EPA 8081B	6-9-17	6-9-17	
Endosulfan I	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Dieldrin	420	16	EPA 8081B	6-9-17	6-9-17	
Endrin	ND	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDD	ND	16	EPA 8081B	6-9-17	6-9-17	
Endosulfan II	ND	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDT	ND	16	EPA 8081B	6-9-17	6-9-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-9-17	6-9-17	
Methoxychlor	ND	16	EPA 8081B	6-9-17	6-9-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-9-17	6-9-17	
Endrin Ketone	ND	16	EPA 8081B	6-9-17	6-9-17	
Toxaphene	ND	79	EPA 8081B	6-9-17	6-9-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	77	46-106				
DCB	94	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-03-SS3</b>					
Laboratory ID:	05-255-09					
alpha-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	8.2	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	27	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Dieldrin	360	16	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	82	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	55	46-106				
DCB	57	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-04-SS1</b>					
Laboratory ID:	05-255-10					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	76	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	58	46-106				
DCB	58	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-04-SS2</b>					
Laboratory ID:	05-255-11					
alpha-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	17	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Dieldrin	180	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	75	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	65	46-106				
DCB	59	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-04-SS3</b>					
Laboratory ID:	05-255-12					
alpha-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.2	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	17	14	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Dieldrin	81	14	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	72	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	82	46-106				
DCB	74	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-05-SS1</b>					
Laboratory ID:	05-255-13					
alpha-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.3	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Dieldrin	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	73	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	61	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-05-SS2</b>					
Laboratory ID:	05-255-14					
alpha-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	6.7	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Dieldrin	1300	130	EPA 8081B	6-1-17	6-9-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	27	13	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	67	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	73	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-05-SS3</b>					
Laboratory ID:	05-255-15					
alpha-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	6.3	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Dieldrin	60	13	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	13	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	63	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	69	46-106				
DCB	67	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-06-SS1</b>					
Laboratory ID:	05-255-16					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	370	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	63	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	160	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	190	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	46-106				
DCB	64	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-06-SS2</b>					
Laboratory ID:	05-255-17					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Dieldrin	380	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	73	46-106				
DCB	70	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-06-SS3</b>					
Laboratory ID:	05-255-18					
alpha-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Dieldrin	51	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	16	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	75	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	53	46-106				
DCB	53	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-07-SS1</b>					
Laboratory ID:	05-255-19					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	18	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	190	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	58	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-07-SS2</b>					
Laboratory ID:	05-255-20					
alpha-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.4	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Dieldrin	100	15	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	74	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	59	46-106				
DCB	53	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-07-SS3</b>					
Laboratory ID:	05-255-21					
alpha-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	8.4	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	17	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	17	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	17	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Dieldrin	18	17	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	17	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	17	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	17	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	17	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	17	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	17	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	17	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	17	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	84	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	50	46-106				
DCB	47	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-08-SS1</b>					
Laboratory ID:	05-255-22					
alpha-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.8	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Dieldrin	50	16	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	78	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	62	46-106				
DCB	55	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-08-SS2</b>					
Laboratory ID:	05-255-23					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Dieldrin	150	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	70	46-106				
DCB	65	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-08-SS3</b>					
Laboratory ID:	05-255-24					
alpha-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	9.7	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	19	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	19	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	19	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Dieldrin	160	19	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	19	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	19	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	19	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	19	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	19	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	19	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	19	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	19	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	97	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	46-106				
DCB	55	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-09-SS1</b>					
Laboratory ID:	05-255-25					
alpha-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.9	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	110	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Dieldrin	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	77	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	22	16	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	79	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	61	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-09-SS2</b>					
Laboratory ID:	05-255-26					
alpha-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.4	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	22	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Dieldrin	2200	150	EPA 8081B	6-1-17	6-9-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	74	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	46-106				
DCB	63	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-09-SS3</b>					
Laboratory ID:	05-255-27					
alpha-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	8.9	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	18	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	18	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	18	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Dieldrin	160	18	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	18	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	18	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	18	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	18	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	18	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	18	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	18	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	18	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	89	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	58	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-10-SS1</b>					
Laboratory ID:	05-255-28					
alpha-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	10	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	21	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	21	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	21	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	10	EPA 8081B	6-1-17	6-8-17	
Dieldrin	ND	21	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	21	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	21	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	21	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	21	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	21	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	21	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	21	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	21	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	100	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	58	46-106				
DCB	53	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-10-SS2</b>					
Laboratory ID:	05-255-29					
alpha-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	10	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	20	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	20	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	20	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	10	EPA 8081B	6-1-17	6-8-17	
Dieldrin	240	20	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	20	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	20	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	20	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	20	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	20	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	20	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	20	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	20	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	100	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	62	46-106				
DCB	58	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-10-SS3</b>					
Laboratory ID:	05-255-30					
alpha-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.6	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Dieldrin	110	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	76	EPA 8081B	6-1-17	6-8-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	58	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-11-SS1</b>					
Laboratory ID:	05-255-31					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Dieldrin	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	67	46-106				
DCB	65	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-11-SS2</b>					
Laboratory ID:	05-255-32					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Dieldrin	53	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	67	46-106				
DCB	69	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-11-SS3</b>					
Laboratory ID:	05-255-33					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	24	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	76	46-106				
DCB	74	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0601S1					
alpha-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	5.0	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	10	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	10	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	10	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Dieldrin	ND	10	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	10	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	10	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	10	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	10	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	10	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	10	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	10	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	10	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	50	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	82	46-106				
DCB	82	53-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>								
Laboratory ID:	SB0601S1							
	SB	SBD	SB	SBD	SB	SBD		
gamma-BHC	50.6	51.3	50.0	50.0	N/A	101 103	42-133	1 15
Heptachlor	36.8	37.7	50.0	50.0	N/A	74 75	53-120	2 15
Aldrin	48.4	49.5	50.0	50.0	N/A	97 99	57-132	2 15
Dieldrin	112	114	125	125	N/A	90 91	56-120	2 15
Endrin	114	116	125	125	N/A	91 93	52-127	2 15
4,4'-DDT	121	125	125	125	N/A	97 100	51-124	3 15
Surrogate:								
TCMX					93	96	46-106	
DCB					90	91	53-122	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0601S2					
alpha-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	5.0	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	10	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	10	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	10	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	5.0	EPA 8081B	6-1-17	6-1-17	
Dieldrin	ND	10	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	10	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	10	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	10	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	10	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	10	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	10	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	10	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	10	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	50	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	91	46-106				
DCB	86	53-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>								
Laboratory ID:	SB0609S2							
	SB	SBD	SB	SBD	SB	SBD		
gamma-BHC	54.8	49.5	50.0	50.0	N/A	110 99	42-133	10 15
Heptachlor	35.4	35.0	50.0	50.0	N/A	71 70	53-120	1 15
Aldrin	52.8	47.4	50.0	50.0	N/A	106 95	57-132	11 15
Dieldrin	119	109	125	125	N/A	96 87	56-120	9 15
Endrin	121	111	125	125	N/A	97 88	52-127	9 15
4,4'-DDT	94.5	91.0	125	125	N/A	76 73	51-124	4 15
Surrogate:								
TCMX					95 87	46-106		
DCB					105 98	53-122		



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B  
 QUALITY CONTROL**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0609S1					
alpha-BHC	ND	5.0	EPA 8081B	6-9-17	6-9-17	
gamma-BHC	ND	5.0	EPA 8081B	6-9-17	6-9-17	
beta-BHC	ND	5.0	EPA 8081B	6-9-17	6-9-17	
delta-BHC	ND	5.0	EPA 8081B	6-9-17	6-9-17	
Heptachlor	ND	5.0	EPA 8081B	6-9-17	6-9-17	
Aldrin	ND	5.0	EPA 8081B	6-9-17	6-9-17	
Heptachlor Epoxide	ND	5.0	EPA 8081B	6-9-17	6-9-17	
gamma-Chlordane	ND	10	EPA 8081B	6-9-17	6-9-17	
alpha-Chlordane	ND	10	EPA 8081B	6-9-17	6-9-17	
4,4'-DDE	ND	10	EPA 8081B	6-9-17	6-9-17	
Endosulfan I	ND	5.0	EPA 8081B	6-9-17	6-9-17	
Dieldrin	ND	10	EPA 8081B	6-9-17	6-9-17	
Endrin	ND	10	EPA 8081B	6-9-17	6-9-17	
4,4'-DDD	ND	10	EPA 8081B	6-9-17	6-9-17	
Endosulfan II	ND	10	EPA 8081B	6-9-17	6-9-17	
4,4'-DDT	ND	10	EPA 8081B	6-9-17	6-9-17	
Endrin Aldehyde	ND	10	EPA 8081B	6-9-17	6-9-17	
Methoxychlor	ND	10	EPA 8081B	6-9-17	6-9-17	
Endosulfan Sulfate	ND	10	EPA 8081B	6-9-17	6-9-17	
Endrin Ketone	ND	10	EPA 8081B	6-9-17	6-9-17	
Toxaphene	ND	50	EPA 8081B	6-9-17	6-9-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	83	46-106				
DCB	98	53-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>SPIKE BLANKS</b>								
Laboratory ID:	SB0609S2							
	SB	SBD	SB	SBD	SB	SBD		
gamma-BHC	54.8	49.5	50.0	50.0	N/A	110 99	42-133	10 15
Heptachlor	35.4	35.0	50.0	50.0	N/A	71 70	53-120	1 15
Aldrin	52.8	47.4	50.0	50.0	N/A	106 95	57-132	11 15
Dieldrin	119	109	125	125	N/A	96 87	56-120	9 15
Endrin	121	111	125	125	N/A	97 88	52-127	9 15
4,4'-DDT	94.5	91.0	125	125	N/A	76 73	51-124	4 15
Surrogate:								
TCMX					95	87	46-106	
DCB					105	98	53-122	



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: NS-COMP-01						
Laboratory ID: 05-255-01,02,03 Comp.						
Dalapon	ND	360	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	110	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.4	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	54	18-111				
Client ID: NS-COMP-02						
Laboratory ID: 05-255-04,05,06 Comp.						
Dalapon	ND	330	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	13	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1300	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1300	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	100	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	6.7	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	63	18-111				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-03</b>						
Laboratory ID: 05-255-07,08,09 Comp.						
Dalapon	ND	360	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	110	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.4	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	

Surrogate: Percent Recovery Control Limits  
 DCAA 52 18-111

<b>Client ID: NS-COMP-04</b>						
Laboratory ID: 05-255-10,11,12 Comp.						
Dalapon	ND	340	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	14	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	100	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	14	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.0	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	14	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	14	EPA 8151A	5-25-17	5-26-17	

Surrogate: Percent Recovery Control Limits  
 DCAA 59 18-111



Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-05</b>						
Laboratory ID: 05-255-13,14,15 Comp.						
Dalapon	ND	310	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	13	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1300	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1300	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	96	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	9.1	6.4	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	58	18-111				
<b>Client ID: NS-COMP-06</b>						
Laboratory ID: 05-255-16,17,18 Comp.						
Dalapon	ND	330	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	14	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	100	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	14	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	6.9	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	14	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	14	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	54	18-111				



Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-07</b>						
Laboratory ID: 05-255-19,20,21 Comp.						
Dalapon	ND	350	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	14	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	110	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	14	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.3	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	

Surrogate: Percent Recovery Control Limits  
 DCAA 60 18-111

<b>Client ID: NS-COMP-08</b>						
Laboratory ID: 05-255-22,23,24 Comp.						
Dalapon	ND	370	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.8	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	

Surrogate: Percent Recovery Control Limits  
 DCAA 59 18-111



Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-09</b>						
Laboratory ID: 05-255-25,26,27 Comp.						
Dalapon	ND	380	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.8	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	16	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	16	EPA 8151A	5-25-17	5-26-17	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
DCAA	64	18-111

<b>Client ID: NS-COMP-10</b>						
Laboratory ID: 05-255-28,29,30 Comp.						
Dalapon	ND	390	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	16	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1600	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1600	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	16	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	8.2	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	16	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	16	EPA 8151A	5-25-17	5-26-17	

<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>
DCAA	63	18-111



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**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-11</b>						
Laboratory ID: 05-255-31,32,33 Comp.						
Dalapon	ND	320	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	13	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1300	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1300	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	99	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	6.6	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	61	18-111				



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**CHLORINATED ACID  
 HERBICIDES EPA 8151A  
 QUALITY CONTROL**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0524S1					
Dalapon	ND	230	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	9.4	EPA 8151A	5-25-17	5-26-17	
MCP	ND	940	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	940	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	71	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	9.4	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	4.8	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	9.5	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	9.5	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	9.5	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	9.5	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	49	18-111				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-255-22, 23, 24										
	MS	MSD	MS	MSD		MS	MSD				
Dicamba	83.7	68.6	100	100	ND	84	69	25-109	20	17	
2,4-D	99.7	86.3	100	100	ND	100	86	24-98	14	24	
Pentachlorophenol	11.0	10.2	10.0	10.0	ND	110	102	37-114	8	23	
2,4,5-T	64.7	55.5	100	100	ND	65	56	25-104	15	23	
2,4-DB	82.8	66.4	100	100	ND	83	66	23-103	22	32	
Surrogate:											
DCAA						79	66	18-111			





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**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<hr/>						
Lab ID:	05-255-01,02,03 Comp.					
<b>Client ID:</b>	<b>NS-COMP-01</b>					
Arsenic	<b>ND</b>	16	6010C	5-25-17	5-25-17	
Barium	<b>110</b>	3.9	6010C	5-25-17	5-25-17	
Cadmium	<b>ND</b>	0.78	6010C	5-25-17	5-25-17	
Chromium	<b>47</b>	0.78	6010C	5-25-17	5-25-17	
Lead	<b>53</b>	7.8	6010C	5-25-17	5-25-17	
Mercury	<b>ND</b>	0.39	7471B	5-26-17	5-26-17	
Selenium	<b>ND</b>	16	6010C	5-25-17	5-25-17	
Silver	<b>ND</b>	1.6	6010C	5-25-17	5-25-17	

Lab ID: 05-255-04,05,06 Comp.  
**Client ID: NS-COMP-02**

Arsenic	<b>ND</b>	14	6010C	5-25-17	5-25-17	
Barium	<b>85</b>	3.5	6010C	5-25-17	5-25-17	
Cadmium	<b>ND</b>	0.71	6010C	5-25-17	5-25-17	
Chromium	<b>47</b>	0.71	6010C	5-25-17	5-25-17	
Lead	<b>260</b>	7.1	6010C	5-25-17	5-25-17	
Mercury	<b>ND</b>	0.35	7471B	5-26-17	5-26-17	
Selenium	<b>ND</b>	14	6010C	5-25-17	5-25-17	
Silver	<b>ND</b>	1.4	6010C	5-25-17	5-25-17	



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**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-255-07,08,09 Comp.					
Client ID:	NS-COMP-03					
Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	84	3.9	6010C	5-25-17	5-25-17	
Cadmium	0.80	0.78	6010C	5-25-17	5-25-17	
Chromium	50	0.78	6010C	5-25-17	5-25-17	
Lead	92	7.8	6010C	5-25-17	5-25-17	
Mercury	ND	0.39	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	

Lab ID: 05-255-10,11,12 Comp.  
 Client ID: NS-COMP-04

Arsenic	ND	15	6010C	5-25-17	5-25-17	
Barium	81	3.7	6010C	5-25-17	5-25-17	
Cadmium	ND	0.73	6010C	5-25-17	5-25-17	
Chromium	58	0.73	6010C	5-25-17	5-25-17	
Lead	72	7.3	6010C	5-25-17	5-25-17	
Mercury	ND	0.37	7471B	5-26-17	5-26-17	
Selenium	ND	15	6010C	5-25-17	5-25-17	
Silver	ND	1.5	6010C	5-25-17	5-25-17	



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**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID: 05-255-13,14,15 Comp.						
<b>Client ID: NS-COMP-05</b>						
Arsenic	<b>ND</b>	14	6010C	5-25-17	5-25-17	
Barium	<b>86</b>	3.4	6010C	5-25-17	5-25-17	
Cadmium	<b>0.91</b>	0.68	6010C	5-25-17	5-25-17	
Chromium	<b>44</b>	0.68	6010C	5-25-17	5-25-17	
Lead	<b>210</b>	6.8	6010C	5-25-17	5-25-17	
Mercury	<b>ND</b>	0.34	7471B	5-26-17	5-26-17	
Selenium	<b>ND</b>	14	6010C	5-25-17	5-25-17	
Silver	<b>ND</b>	1.4	6010C	5-25-17	5-25-17	

Lab ID: 05-255-16,17,18 Comp.

**Client ID: NS-COMP-06**

Arsenic	<b>ND</b>	14	6010C	5-25-17	5-25-17	
Barium	<b>87</b>	3.6	6010C	5-25-17	5-25-17	
Cadmium	<b>ND</b>	0.72	6010C	5-25-17	5-25-17	
Chromium	<b>41</b>	0.72	6010C	5-25-17	5-25-17	
Lead	<b>45</b>	7.2	6010C	5-25-17	5-25-17	
Mercury	<b>ND</b>	0.36	7471B	5-26-17	5-26-17	
Selenium	<b>ND</b>	14	6010C	5-25-17	5-25-17	
Silver	<b>ND</b>	1.4	6010C	5-25-17	5-25-17	



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**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID: 05-255-19,20,21 Comp.						
Client ID: NS-COMP-07						
Arsenic	ND	15	6010C	5-25-17	5-25-17	
Barium	98	3.8	6010C	5-25-17	5-25-17	
Cadmium	ND	0.77	6010C	5-25-17	5-25-17	
Chromium	49	0.77	6010C	5-25-17	5-25-17	
Lead	160	7.7	6010C	5-25-17	5-25-17	
Mercury	ND	0.38	7471B	5-26-17	5-26-17	
Selenium	ND	15	6010C	5-25-17	5-25-17	
Silver	ND	1.5	6010C	5-25-17	5-25-17	

Lab ID: 05-255-22,23,24 Comp.

Client ID: NS-COMP-08

Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	100	4.1	6010C	5-25-17	5-25-17	
Cadmium	ND	0.82	6010C	5-25-17	5-25-17	
Chromium	47	0.82	6010C	5-25-17	5-25-17	
Lead	110	8.2	6010C	5-25-17	5-25-17	
Mercury	ND	0.41	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	



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**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-255-25,26,27 Comp.					
Client ID:	NS-COMP-09					
Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	220	4.1	6010C	5-25-17	5-25-17	
Cadmium	ND	0.82	6010C	5-25-17	5-25-17	
Chromium	39	0.82	6010C	5-25-17	5-25-17	
Lead	63	8.2	6010C	5-25-17	5-25-17	
Mercury	ND	0.41	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	

Lab ID: 05-255-28,29,30 Comp.

Client ID: NS-COMP-10

Arsenic	ND	17	6010C	5-25-17	5-25-17	
Barium	110	4.3	6010C	5-25-17	5-25-17	
Cadmium	ND	0.86	6010C	5-25-17	5-25-17	
Chromium	44	0.86	6010C	5-25-17	5-25-17	
Lead	35	8.6	6010C	5-25-17	5-25-17	
Mercury	ND	0.43	7471B	5-26-17	5-26-17	
Selenium	ND	17	6010C	5-25-17	5-25-17	
Silver	ND	1.7	6010C	5-25-17	5-25-17	



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**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	05-255-31,32,33 Comp.					
Client ID:	NS-COMP-11					
Arsenic	ND	14	6010C	5-25-17	5-25-17	
Barium	83	3.5	6010C	5-25-17	5-25-17	
Cadmium	ND	0.70	6010C	5-25-17	5-25-17	
Chromium	66	0.70	6010C	5-25-17	5-25-17	
Lead	27	7.0	6010C	5-25-17	5-25-17	
Mercury	ND	0.35	7471B	5-26-17	5-26-17	
Selenium	ND	14	6010C	5-25-17	5-25-17	
Silver	ND	1.4	6010C	5-25-17	5-25-17	



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**TOTAL METALS  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-25-17  
Date Analyzed: 5-25-17  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0525SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0





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**TOTAL MERCURY  
EPA 7471B  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 5-26-17  
Date Analyzed: 5-26-17  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0526S3

Analyte	Method	Result	PQL
Mercury	7471B	<b>ND</b>	0.25



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**TOTAL METALS  
 EPA 6010C  
 DUPLICATE QUALITY CONTROL**

Date Extracted: 5-25-17  
 Date Analyzed: 5-25-17  
  
 Matrix: Soil  
 Units: mg/kg (ppm)  
  
 Lab ID: 05-282-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	113	109	4	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	23.2	19.3	19	0.50	
Lead	40.4	36.7	10	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



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**TOTAL MERCURY  
EPA 7471B  
DUPLICATE QUALITY CONTROL**

Date Extracted: 5-26-17

Date Analyzed: 5-26-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-312-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	<b>ND</b>	<b>ND</b>	NA	0.25	



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**TOTAL METALS  
 EPA 6010C  
 MS/MSD QUALITY CONTROL**

Date Extracted: 5-25-17

Date Analyzed: 5-25-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-282-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	<b>95.1</b>	95	<b>92.3</b>	92	3	
Barium	100	<b>215</b>	101	<b>219</b>	106	2	
Cadmium	50.0	<b>46.4</b>	93	<b>46.3</b>	93	0	
Chromium	100	<b>114</b>	91	<b>115</b>	92	1	
Lead	250	<b>258</b>	87	<b>278</b>	95	8	
Selenium	100	<b>92.6</b>	93	<b>92.3</b>	92	0	
Silver	25.0	<b>22.2</b>	89	<b>22.0</b>	88	1	



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**TOTAL MERCURY  
EPA 7471B  
MS/MSD QUALITY CONTROL**

Date Extracted: 5-26-17

Date Analyzed: 5-26-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 05-312-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	<b>0.531</b>	106	<b>0.530</b>	106	0	



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**TOTAL METALS  
 EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	05-255-07					
<b>Client ID:</b>	<b>NS-03-SS1</b>					
Cadmium	<b>ND</b>	0.67	6010C	6-7-17	6-8-17	
Lead	<b>110</b>	6.7	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-08					
<b>Client ID:</b>	<b>NS-03-SS2</b>					
Cadmium	<b>1.2</b>	0.79	6010C	6-7-17	6-8-17	
Lead	<b>72</b>	7.9	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-09					
<b>Client ID:</b>	<b>NS-03-SS3</b>					
Cadmium	<b>ND</b>	0.82	6010C	6-7-17	6-8-17	
Lead	<b>75</b>	8.2	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-13					
<b>Client ID:</b>	<b>NS-05-SS1</b>					
Cadmium	<b>0.76</b>	0.73	6010C	6-7-17	6-8-17	
Lead	<b>210</b>	7.3	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-14					
<b>Client ID:</b>	<b>NS-05-SS2</b>					
Cadmium	<b>1.5</b>	0.67	6010C	6-7-17	6-8-17	
Lead	<b>310</b>	6.7	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-15					
<b>Client ID:</b>	<b>NS-05-SS3</b>					
Cadmium	<b>ND</b>	0.63	6010C	6-7-17	6-8-17	
Lead	<b>60</b>	6.3	6010C	6-7-17	6-8-17	



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This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-255-19					
Client ID:	NS-07-SS1					
Lead	52	7.1	6010C	6-7-17	6-9-17	
Lab ID:	05-255-20					
Client ID:	NS-07-SS2					
Lead	78	7.4	6010C	6-7-17	6-9-17	
Lab ID:	05-255-21					
Client ID:	NS-07-SS3					
Lead	270	8.4	6010C	6-7-17	6-9-17	
Lab ID:	05-255-22					
Client ID:	NS-08-SS1					
Lead	120	7.8	6010C	6-7-17	6-9-17	
Lab ID:	05-255-23					
Client ID:	NS-08-SS2					
Lead	110	6.8	6010C	6-7-17	6-9-17	
Lab ID:	05-255-24					
Client ID:	NS-08-SS3					
Lead	54	9.7	6010C	6-7-17	6-9-17	





Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

**TOTAL METALS  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-7-17  
Date Analyzed: 6-7-17  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0607SM2

Analyte	Method	Result	PQL
Cadmium	6010C	<b>ND</b>	0.50
Lead	6010C	<b>ND</b>	5.0



Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

**TOTAL METALS  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 6-7-17

Date Analyzed: 6-7-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-019-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Cadmium	<b>ND</b>	<b>ND</b>	NA	0.50	
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	



Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

**TOTAL METALS  
EPA 6010C  
MS/MSD QUALITY CONTROL**

Date Extracted: 6-7-17

Date Analyzed: 6-7-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-019-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Cadmium	50.0	<b>44.7</b>	89	<b>44.2</b>	88	1	
Lead	250	<b>210</b>	84	<b>210</b>	84	0	



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	05-255-04					
<b>Client ID:</b>	<b>NS-02-SS1</b>					
<hr/>						
Lead	<b>51</b>	7.3	6010C	6-13-17	6-13-17	
<hr/>						
Lab ID:	05-255-05					
<b>Client ID:</b>	<b>NS-02-SS2</b>					
<hr/>						
Lead	<b>280</b>	7.7	6010C	6-13-17	6-13-17	
<hr/>						
Lab ID:	05-255-06					
<b>Client ID:</b>	<b>NS-02-SS3</b>					
<hr/>						
Lead	<b>100</b>	7.1	6010C	6-13-17	6-13-17	
<hr/>						



Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

**TOTAL LEAD  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-13-17  
Date Analyzed: 6-13-17  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0613SM1

Analyte	Method	Result	PQL
Lead	6010C	<b>ND</b>	5.0



Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

**TOTAL LEAD  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 6-13-17

Date Analyzed: 6-13-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-119-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	



Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

**TOTAL LEAD  
EPA 6010C  
MS/MSD QUALITY CONTROL**

Date Extracted: 6-13-17

Date Analyzed: 6-13-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-119-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	<b>240</b>	96	<b>240</b>	96	0	





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

### % MOISTURE

Date Analyzed: 5-24-17

Client ID	Lab ID	% Moisture
NS-COMP-01	05-255-01,02,03 Comp.	36
NS-COMP-02	05-255-04,05,06 Comp.	30
NS-COMP-03	05-255-07,08,09 Comp.	36
NS-COMP-04	05-255-10,11,12 Comp.	32
NS-COMP-05	05-255-13,14,15 Comp.	26
NS-COMP-06	05-255-16,17,18 Comp.	31
NS-COMP-07	05-255-19,20,21 Comp.	35
NS-COMP-08	05-255-22,23,24 Comp.	39
NS-COMP-09	05-255-25,26,27 Comp.	39
NS-COMP-10	05-255-28,29,30 Comp.	42
NS-COMP-11	05-255-31,32,33 Comp.	28



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

### % MOISTURE

Date Analyzed: 6-1-17

Client ID	Lab ID	% Moisture
NS-01-SS1	05-255-01	34
NS-01-SS2	05-255-02	21
NS-01-SS3	05-255-03	46
NS-02-SS1	05-255-04	32
NS-02-SS2	05-255-05	35
NS-02-SS3	05-255-06	30
NS-03-SS1	05-255-07	25
NS-03-SS2	05-255-08	37
NS-03-SS3	05-255-09	39
NS-04-SS1	05-255-10	30
NS-04-SS2	05-255-11	33
NS-04-SS3	05-255-12	31
NS-05-SS1	05-255-13	32
NS-05-SS2	05-255-14	26
NS-05-SS3	05-255-15	20
NS-06-SS1	05-255-16	30
NS-06-SS2	05-255-17	26
NS-06-SS3	05-255-18	33
NS-07-SS1	05-255-19	30
NS-07-SS2	05-255-20	33
NS-07-SS3	05-255-21	41
NS-08-SS1	05-255-22	36
NS-08-SS2	05-255-23	26
NS-08-SS3	05-255-24	49
NS-09-SS1	05-255-25	37
NS-09-SS2	05-255-26	33
NS-09-SS3	05-255-27	44



Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

### % MOISTURE

Date Analyzed: 6-1-17

Client ID	Lab ID	% Moisture
NS-10-SS1	05-255-28	52
NS-10-SS2	05-255-29	51
NS-10-SS3	05-255-30	34
NS-11-SS1	05-255-31	26
NS-11-SS2	05-255-32	26
NS-11-SS3	05-255-33	30





### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



# Chain of Custody

Page 1 of 4

Company: Sound Earth / SCL  
Project Number: North 1267-004  
Project Name: North Substation  
Project Manager: Rob Roberts / Shanna Straws  
Sampled by: Logan Schwmacher

**Turnaround Request  
(in working days)**

(Check One)

- ☐ Same Day ☐ 1 Day  
☐ 2 Days ☐ 3 Days  
☒ Standard (7 Days)  
(TPH analysis 5 Days)  
☐ \_\_\_\_\_ (other)

Number of Containers

Laboratory Number:

**05-255**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (□ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MECA Metals	TCLP Metals	HEM (oil and grease) 1664A	O-C Pesticides discrete	Total Cd + Pb	% Moisture
1	NS-01-SS1	5/18/17	0840	Soil	2																				
2	NS-01-SS2		0850																						
3	NS-01-SS3		0900																						
4	NS-02-SS1		0915																						
5	NS-02-SS2		0930																						
6	NS-02-SS3		0945																						
7	NS-03-SS1		0955																						
8	NS-03-SS2		1000																						
9	NS-03-SS3		1010																						

Signature	Company	Date	Time	Comments/Special Instructions
	SES	5/19/17	10:40	Invoice SCL directly. Report to Shanna S. @ SCL + Rob R. + Logan S. @ Sound Earth.
	SCL	5/19/17	1043	
	SCL	5/19/17	1312	Analyze composite of 3 from each area, + keep remaining discrete samples pending further analysis. O Added 5/31/17-DB
	SCL	5/19/17	1312	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> (STA)
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

Added 6/2/17 DB (STA)

Added 5.26.17 - Ken Added 6/2/17 DB STA



# Chain of Custody

Company: Sound Earth / SCL  
Project Number: 1267-004  
Project Name: North Substation  
Project Manager: Rob Roberts / Shanna Straws  
Sampled by: Logan Schumacher

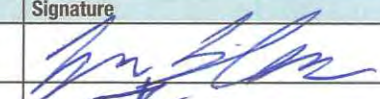



**Turnaround Request  
(in working days)**

(Check One)

☐ Same Day ☐ 1 Day  
☐ 2 Days ☐ 3 Days  
☒ Standard (7 Days)  
(TPH analysis 5 Days)  
☐ \_\_\_\_\_ (other)

**Laboratory Number:** 05-255

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx ( <input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals <u>RURA 8</u>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	OC-Pesticides	Total Cd + Pb	% Moisture
10	NS-04-SS1	5/18/17	1020	Soil	2				<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0		X
11	NS-04-SS2		1030						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0		X
12	NS-04-SS3		1045						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0		X
13	NS-05-SS1		1055						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0	●	X
14	NS-05-SS2		1105						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0	●	X
15	NS-05-SS3		1115						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0	●	X
16	NS-06-SS1		1125						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0		X
17	NS-06-SS2		1135						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0		X
18	NS-06-SS3		1145						<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				0		X

Signature	Company	Date	Time	Comments/Special Instructions
	SES	5/19/17	10:40	See page 1.
	SP	5/19/17	1047	
	SP	5/19/17	1312	
	G	5/19/17	1312	

Reviewed/Date \_\_\_\_\_ Reviewed/Date \_\_\_\_\_

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐





Company:	SoundEarth / SCL
Project Number:	1267-004
Project Name:	North Substation
Project Manager:	Rob Roberts / Shannon Straws
Sampled by:	Logan Schwmacher

## Page 3 of 4

Turnaround Request (in working days)			Laboratory Number:		
(Check One)					
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day				
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days				
<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)					
<input type="checkbox"/>	(other) _____				
Date Sampled	Time Sampled	Matrix	Number of Containers		
5/19/17	1150	Soil	2	NWTPH-HCID	
	1200			NWTPH-Gx/BTEX	
	1205			NWTPH-Gx	
	1210			NWTPH-Dx ( <input type="checkbox"/> Acid / SG Clean-up)	
	1215			Volatiles 8260C	
	1220			Halogenated Volatiles 8260C	
	1230			EDB EPA 8011 (Waters Only)	
	1240			Semivolatiles 8270D/SIM (with low-level PAHs)	
	1250			PAHs 8270D/SIM (low-level)	
				PCBs 8082A	
				Organochlorine Pesticides 8081B	
				Organophosphorus Pesticides 8270D/SIM	
				Chlorinated Acid Herbicides 8151A	
				Total RCRA Metals	RCRA 8
				Total MTCA Metals	
				TCLP Metals	
				HEM (oil and grease) 1664A	
				OC - Pesticides	
				Total Lead only	
				% Moisture	

Direct

Company	Date	Time	Comments/Special Instructions
SES	5/19/17	10:40	See page 1
GPR-1	5/19/17	1043	
GPR-1	5/19/17	1312	
Quinta Fa	5/19/17	1312	
			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



# Chain of Custody

Page 4 of 4

Company: Sound Earth / SCL  
Project Number: 1267-004  
Project Name: North Substation  
Project Manager: Rob Roberts / Shannon Struss  
Sampled by: Lozen Schumacher

## Turnaround Request (in working days)

(Check One)

- ☐ Same Day      ☐ 1 Day  
☐ 2 Days      ☐ 3 Days  
☒ Standard (7 Days)  
(TPH analysis 5 Days)

☐ \_\_\_\_\_ (other)

Number of Containers

Laboratory Number:

**05-255**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix		NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx ( <input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A			% Moisture
28	NS-10-SS1	5/18/17	1300	Soil	2																				
29	NS-10-SS2		1305																						
30	NS-10-SS3		1310																						
31	NS-11-SS1		1320																						
32	NS-11-SS2		1325																						
33	NS-11-SS3		1330																						
<div style="text-align: center;"> <p><u>LDS</u> <u>5/18/17</u></p> </div>																									

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		SFS	5/19/17	10:40	See page 1
Received		SFS	5/19/17	10:43	
Relinquished		SFS	5/19/17	13:12	
Received		SFS	5/19/17	13:12	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



**ATTACHMENT B**  
**DATA VALIDATION REPORT**

# **DATA VALIDATION REPORT**

**Seattle City Light  
North Substation  
August 2017**

**Prepared for:**

Sound Earth Strategies, Inc.  
2811 Fairview Ave East, Suite 2000  
Seattle, Washington 98102

**Prepared by:**

Validata, LLC  
3346 NE 178<sup>th</sup> St.  
Lake Forest Park, Washington 98155

## PROJECT NARRATIVE

### Data Validation

This report summarizes the results of the summary level validation (Stage 2A) performed on soil samples for the Seattle City Light sampling project. A complete list of samples is provided in the Sample Index. Samples were analyzed by OnSite Environmental laboratory, Redmond, Washington. The analytical methods are listed below:

### Sample Index

ANALYSIS	METHOD	Reviewer
Petroleum Hydrocarbons – Diesel Range Organics, Lube Oil Organics	NWTPH-Dx	C. Jensen
Organochlorine Pesticides	SW8181B	C. Jensen
Herbicides	SW8151A	C. Jensen
Metals/Mercury	SW6010C/7471B	C. Jensen

The data were reviewed using guidance and quality control criteria documented in the analytical methods; *USEPA National Functional Guidelines for Organic Data Review* (EPA, 1999 & 2008).

The goal of data validation is to assign data assessment qualifiers for assistance in data interpretation. Results assigned as estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. For results assigned an R, the data are rejected and should not be used for site evaluation purposes. Unqualified data implies the data meet the data quality objectives as stated in the documents and methods referenced above. A summary of the data qualifiers used in validation are included in Appendix A. The summary of Qualified Data are provided in Appendix B. All validation worksheets are provided in Appendix C.

### SAMPLE INDEX

SDG	Sample ID	Lab ID	NWTPH -Dx	OC Pesticides	Herbicides	Metals
1705-255	NS-01-SS1	05-255-01	x	x		
1705-255	NS-01-SS2	05-255-02	x	x		
1705-255	NS-01-SS3	05-255-03	x	x		
1705-255	NS-02-SS1	05-255-04		x		x
1705-255	NS-02-SS2	05-255-05		x		x
1705-255	NS-02-SS3	05-255-06		x		x
1705-255	NS-03-SS1	05-255-07		x		x
1705-255	NS-03-SS2	05-255-08		x		x
1705-255	NS-03-SS3	05-255-09		x		x
1705-255	NS-04-SS1	05-255-10		x		
1705-255	NS-04-SS2	05-255-11		x		
1705-255	NS-04-SS3	05-255-12		x		
1705-255	NS-05-SS1	05-255-13		x		x
1705-255	NS-05-SS2	05-255-14		x		x
1705-255	NS-05-SS3	05-255-15		x		x

1705-255	NS-06-SS1	05-255-16		x		
1705-255	NS-06-SS2	05-255-17		x		
1705-255	NS-06-SS3	05-255-18		x		
1705-255	NS-07-SS1	05-255-19		x		x
1705-255	NS-07-SS2	05-255-20	x	x		x
1705-255	NS-07-SS3	05-255-21	x	x		x
1705-255	NS-08-SS1	05-255-22		x		x
1705-255	NS-08-SS2	05-255-23		x		x
1705-255	NS-08-SS3	05-255-24		x		x
1705-255	NS-09-SS1	05-255-25		x		
1705-255	NS-09-SS2	05-255-26		x		
1705-255	NS-09-SS3	05-255-27		x		
1705-255	NS-10-SS1	05-255-28		x		
1705-255	NS-10-SS2	05-255-29		x		
1705-255	NS-10-SS3	05-255-30		x		
1705-255	NS-11-SS1	05-255-31		x		
1705-255	NS-11-SS2	05-255-32		x		
1705-255	NS-11-SS3	05-255-33		x		
1705-255	NS-COMP-03	05-255-07,08,09 Comp.	x	x	x	x
1705-255	NS-COMP-04	05-255-10,11,12 Comp.	x	x	x	x
1705-255	NS-COMP-08	05-255-22,23,24 Comp.	x	x	x	x
1705-255	NS-COMP-09	05-255-25,26,27 Comp.	x	x	x	x
1705-255	NS-COMP-01	05-255-01,02,03 Comp.	x	x	x	x
1705-255	NS-COMP-02	05-255-04,05,06 Comp.	x	x	x	x
1705-255	NS-COMP-03	05-255-07,08,09 Comp.	x	x	x	x
1705-255	NS-COMP-04	05-255-10,11,12 Comp.	x	x	x	x
1705-255	NS-COMP-05	05-255-13,14,15 Comp.	x	x	x	x
1705-255	NS-COMP-06	05-255-16,17,18 Comp.	x	x	x	x
1705-255	NS-COMP-07	05-255-19,20,21 Comp.	x	x	x	x
1705-255	NS-COMP-10	05-255-28,29,30 Comp.	x	x	x	x
1705-255	NS-COMP-11	05-255-31,32,33 Comp.	x	x	x	x

## DATA VALIDATION REPORT

### Petroleum Hydrocarbons – NWTPH-Dx – Diesel Range Organics and Lube Oil Range Organics

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. OnSite laboratory, Redmond, Washington. Refer to the Sample Index for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
1705-255	22	STAGE 2A

### DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables for a Stage 2A review. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

### TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

Sample Receipt, Preservation, and Holding Times	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
Laboratory Blanks	Field Duplicates
Field Blanks	Target Analyte List
Surrogate Compounds	Reporting Limits
Laboratory Control Samples (LCS)	Reported Results

### **Sample Receipt, Preservation, and Holding Times**

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 0°C - 6°C and be extracted within 7 days for aqueous samples and 14 days for soil samples. Sample extracts must be analyzed within 40 days of extraction. The following exceptions were noted during validation:

*SDG 1705-255, -255B:* The cooler temperatures were within the recommended temperature range.

### **Method and Field Blanks**

The method blanks were all reported as undetected for target compounds. Field blanks were not submitted with this sampling event.

### **Surrogate Compounds**

Surrogates were added to all samples. All surrogate recoveries were within the laboratory control limits with the exception of low recovery of surrogate o-terphenyl for samples NS-COMP-01 and NS-COMP-07. Diesel and Lube Oil range organics were qualified as J and code 13 for these two samples to indicate the surrogate recovery outlier.

### **Matrix Spike/Matrix Spike Duplicates**

Matrix spike/matrix spike duplicate (MS/MSD) samples were not specifically analyzed for this dataset. The laboratory demonstrated precision and accuracy through the analysis of laboratory duplicate samples with acceptable results.

### **Field Duplicates**

Field duplicates were not collected for this dataset. Laboratory duplicates were acceptable for this dataset, therefore precision was demonstrated by the laboratory.

### **Target Analyte List**

A sampling plan was not available for review.

### **Reporting Limits**

The laboratory reporting limits were sufficiently below the MTCA Method A cleanup levels.

### **Reported Results**

Lube oil and diesel for samples NS-Comp-01, NS-Comp-02, NS-Comp-03, NS-Comp-04, NS-Comp-05, NS-Comp-06, NS-Comp-07, NS-Comp-08, NS-Comp-09

and NS-Comp-10 were qualified as estimated (J) and code 14 since the laboratory indicated the hydrocarbons in the lube oil range are impacting diesel results. Therefore both lube oil and diesel are considered estimated values for these samples.

## OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate recovery values. All data are acceptable for use.

## DATA VALIDATION REPORT

### Organochlorine Pesticides - Method 8181B

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. OnSite Environmental, Inc. laboratory, Seattle, Washington. Refer to the Sample Index for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
1705-255	47	STAGE 2A

## DATA PACKAGE COMPLETENESS

With the exception noted below, the laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

## TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

Sample Receipt, Preservation, and Holding Times	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
Laboratory Blanks	Field Duplicates
Field Blanks	Target Analyte List
Surrogate Compounds	Reporting Limits
Laboratory Control Samples (LCS)	Reported Results

### Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 0°C - 6°C and be extracted within 7 days for aqueous samples and 14 days for soil samples. Sample extracts must be analyzed within 40 days of extraction. The following exceptions were noted during validation:

*SDG 1705-255, -255B:* The cooler temperatures were within the recommended temperature range. Sample NS-03-SS2 was analyzed outside of the holding time, therefore qualified as J/UJ and code 13 for the re-extract.

## **Method and Field Blanks**

The method blanks were all reported as undetected for target compounds. Field blanks were not submitted with this sampling event.

## **Surrogate Compounds**

Surrogates were added to all samples with the exception of sample NS-03-SS2 which the laboratory noted was an error. The laboratory re-extracted and reanalyzed the sample outside the holding time. The original sample that did not contain surrogates was rejected, R flags and code 13.

One surrogate out of two recovered low for sample NS-07-SS3, therefore since one surrogate recovered within limits, no qualification was made.

## **Matrix Spike/Matrix Spike Duplicates**

A Matrix spike/matrix spike duplicate (MS/MSD) sample pair was analyzed with this dataset with acceptable results. Additionally, blank spike and spike duplicates were analyzed for this dataset with acceptable results.

## **Field Duplicates**

Field duplicates were not collected for this dataset.

## **Target Analyte List**

A sampling plan was not available for review.

## **Reporting Limits**

The laboratory reporting limits were sufficiently below the MTCA Method A cleanup levels.

## **Reported Results**

Results reported were deemed acceptable with the exception of rejected results for sample NS-03-SS2. The laboratory redigested and reported a second analysis for this sample.

## **OVERALL ASSESSMENT**

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, MS/MSD and blank spike recovery values. Precision was also acceptable as demonstrated by the blank spike and duplicate values. All data, as qualified, are acceptable for use with the exception of original sample NS-03-SS2.

## **DATA VALIDATION REPORT**

### **Chlorinated Herbicides - Method 8151A**

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. OnSite

Environmental, Inc. laboratory, Seattle, Washington. Refer to the Sample Index for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
1705-255	13	STAGE 2A

## DATA PACKAGE COMPLETENESS

With the exception noted below, the laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

## TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

Sample Receipt, Preservation, and Holding Times	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
Laboratory Blanks	Field Duplicates
Field Blanks	Target Analyte List
Surrogate Compounds	Reporting Limits
Laboratory Control Samples (LCS)	Reported Results

### Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 0°C - 6°C and be extracted within 7 days for aqueous samples and 14 days for soil samples. Sample extracts must be analyzed within 40 days of extraction. The following exceptions were noted during validation:

*SDG 1705-255, -255B:* The cooler temperatures were within the recommended temperature range.

### Method and Field Blanks

The method blanks were all reported as undetected for target compounds. Field blanks were not submitted with this sampling event.

### Surrogate Compounds

Surrogates were added to all samples with acceptable results.

### Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed with the dicamba relative percent difference exceeding limits, resulting in J qualification and code 9 of the parent sample only, sample NS-COMP-08.

### Field Duplicates

Field duplicates were not collected for this dataset.



## Target Analyte List

A sampling plan was not available for review.

## Reporting Limits

The laboratory reporting limits were sufficiently below the MTCA Method A cleanup levels.

## Reported Results

Results reported were deemed acceptable.

## OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate and MS and MSD recovery values. Precision was also acceptable as demonstrated by the MS/MSD RPD values. All data, as qualified, are acceptable for use.

## DATA VALIDATION REPORT

### Metals/Mercury - Method 6010C/7471B

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. OnSite Environmental, Inc. laboratory, Seattle, Washington. Refer to the Sample Index for a complete list of samples.

SDG	NUMBER OF SAMPLES	VALIDATION LEVEL
1706-137	28	STAGE 2A

## DATA PACKAGE COMPLETENESS

With the exception noted below, the laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

## TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

Sample Receipt, Preservation, and Holding Times	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
Laboratory Blanks	Field Duplicates
Field Blanks	Target Analyte List
Surrogate Compounds	Reporting Limits
Laboratory Control Samples (LCS)	Reported Results

### **Sample Receipt, Preservation, and Holding Times**

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 0°C - 6°C and metals must be analyzed within 6 months and mercury within 28 days of sample collection. The following exceptions were noted during validation:

*SDG 1705-255, -255B:* The cooler temperatures were within the recommended temperature range.

### **Method and Field Blanks**

The method blanks were all reported as undetected for target compounds. Field blanks were not submitted with this sampling event.

### **Surrogate Compounds**

Not Applicable.

### **Matrix Spike/Matrix Spike Duplicates**

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed with acceptable results.

### **Field Duplicates**

Field duplicates were not collected for this dataset. The laboratory analyzed laboratory duplicates to demonstrate precision with acceptable results.

### **Target Analyte List**

A sampling plan was not available for review.

### **Reporting Limits**

The laboratory reporting limits were sufficiently below the MTCA Method A cleanup levels.

### **Reported Results**

Results reported were deemed acceptable.

## **OVERALL ASSESSMENT**

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the MS/MSD recovery values. Precision was also acceptable as demonstrated by the MS/MSD and laboratory duplicate RPD values. All data, as qualified, are acceptable for use.

**APPENDIX A**  
**DATA QUALIFIER DEFINITIONS**  
**REASON CODES**

## **DATA VALIDATION QUALIFIER CODES**

### **Based on National Functional Guidelines**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

NJ - The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents the approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

## DATA QUALIFIER REASON CODES

Group	Code	Reason for Qualification
Sample Handling	1	Improper Sample Handling or Sample Preservation (i.e., headspace, cooler)
Instrument Performance	24	Instrument Performance (i.e., tune, resolution, retention time window, endrin breakdown, lock-mass)
Instrument Performance	5A	Initial Calibration (RF, %RSD, r2)
Instrument Performance	5B	Calibration Verification (CCV, CCAL; RF, %D, %R) Use bias flags (H,L)1 where appropriate
Instrument Performance	5C	Initial Calibration Verification (ICV %D, %R) Use bias flags (H,L)1 where appropriate
Blank Contamination	6	Field Blank Contamination (Equipment Rinsate, Trip Blank, etc.)
Blank Contamination	7	Lab Blank Contamination (i.e., method blank, instrument blank, etc.) Use low bias flag (L)1 for negative instrument blanks
Precision and Accuracy	8	Matrix Spike (MS and/or MSD) Recoveries Use bias flags (H,L)1 where appropriate
Precision and Accuracy	9	Precision (all replicates: LCS/LCSD, MS/MSD, Lab Replicate, Field Replicate)
Precision and Accuracy	10	Laboratory Control Sample Recoveries (a.k.a. Blank Spikes) Use bias flags (H,L)1 where appropriate
Precision and Accuracy	12	Reference Material Use bias flags (H,L)1 where appropriate
Precision and Accuracy	13	Surrogate Spike Recoveries (a.k.a. labeled compounds, recovery standards) Use bias flags (H,L)1 where appropriate
Interferences	16	ICP/ICP-MS Serial Dilution Percent Difference
Interferences	17	ICP/ICP-MS Interference Check Standard Recovery Use bias flags (H,L)1 where appropriate
Interferences	19	Internal Standard Performance (i.e., area, retention time, recovery)
Interferences	22	Elevated Detection Limit due to Interference (i.e., chemical and/or matrix)
Interferences	23	Bias from Matrix Interference (i.e. diphenyl ether, PCB/pesticides)
Identification and Quantitation	2	Chromatographic pattern in sample does not match pattern of calibration standard
Identification and Quantitation	3	2nd column confirmation (RPD or %D)
Identification and Quantitation	4	Tentatively Identified Compound (TIC) (associated with NJ only)
Identification and Quantitation	20	Calibration Range or Linear Range Exceeded
Identification and Quantitation	25	Compound Identification (i.e., ion ratio, retention time, relative abundance, etc.)
Miscellaneous	11	A more appropriate result is reported (multiple reported analyses i.e., dilutions, reextractions, etc. Associated with "R" and "DNR" only)
Miscellaneous	14	Other (See DV report for details)
Miscellaneous	26	Method QC information not provided

**APPENDIX B**  
**QUALIFIED DATA SUMMARY TABLE**

## Qualified Data Sample Summary

Sample ID	Lab ID	Compound	Concentration	units	Qualifier, Code
NS-COMP-08	05-255-22,23,24 Comp.	Dicamba	15U	mg/kg	UJ, 9
NS-03-SS2	05-255-08	Alpha-bhc	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Gamma-bhc	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Beta-bhc	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Delta-bhc	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Heptachlor	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Aldrin	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Heptachlor Epoxide	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Gamma-chlordane	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Alpha-chlordane	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	4,4'-DDE	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Endosulfan I	7.9U	mg/kg	R, 13
NS-03-SS2	05-255-08	Dieldrin	270	mg/kg	R, 13
NS-03-SS2	05-255-08	Endrin	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	4,4'-DDD	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Endosulfan II	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	4,4'-DDT	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Endrin Aldehyde	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Methoxychlor	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Endosulfan Sulfate	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Endrin Ketone	16U	mg/kg	R, 13
NS-03-SS2	05-255-08	Toxaphene	79U	mg/kg	R, 13
NS-03-SS2 RE	05-255-08 RE	Alpha-bhc	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Gamma-bhc	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Beta-bhc	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Delta-bhc	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Heptachlor	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Aldrin	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Heptachlor Epoxide	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Gamma-chlordane	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Alpha-chlordane	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	4,4'-DDE	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endosulfan I	7.9U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Dieldrin	420	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endrin	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	4,4'-DDD	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endosulfan II	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	4,4'-DDT	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endrin Aldehyde	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Methoxychlor	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endosulfan Sulfate	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endrin Ketone	16U	mg/kg	UJ, 13
NS-03-SS2 RE	05-255-08 RE	Toxaphene	79U	mg/kg	UJ, 13
NS-COMP-01	05-255-01,02,03 Comp.	Diesel Range Organics	41	mg/kg	J,13,14
NS-COMP-01	05-255-01,02,03 Comp.	Lube Oil Range Organics	170	mg/kg	J,13,14
NS-COMP-02	05-255-04,05,06 Comp.	Diesel Range Organics	43	mg/kg	J,14
NS-COMP-02	05-255-04,05,06 Comp.	Lube Oil Range Organics	320	mg/kg	J,14
NS-COMP-03	05-255-07,08,09 Comp.	Diesel Range Organics	240	mg/kg	J,14
NS-COMP-03	05-255-07,08,09 Comp.	Lube Oil Range Organics	1300	mg/kg	J,14
NS-COMP-04	05-255-10,11,12 Comp.	Diesel Range Organics	180	mg/kg	J,14
NS-COMP-04	05-255-10,11,12 Comp.	Lube Oil Range Organics	1100	mg/kg	J,14
NS-COMP-05	05-255-13,14,15 Comp.	Diesel Range Organics	61	mg/kg	J,14
NS-COMP-05	05-255-13,14,15 Comp.	Lube Oil Range Organics	400	mg/kg	J,14
NS-COMP-06	05-255-16,17,18 Comp.	Diesel Range Organics	150	mg/kg	J,14
NS-COMP-06	05-255-16,17,18 Comp.	Lube Oil Range Organics	570	mg/kg	J,14
NS-COMP-07	05-255-19,20,21 Comp.	Diesel Range Organics	46	mg/kg	J,13,14
NS-COMP-07	05-255-19,20,21 Comp.	Lube Oil Range Organics	210	mg/kg	J,13,14
NS-COMP-08	05-255-22,23,24 Comp.	Diesel Range Organics	160	mg/kg	J,14
NS-COMP-08	05-255-22,23,24 Comp.	Lube Oil Range Organics	790	mg/kg	J,14
NS-COMP-09	05-255-25,26,27 Comp.	Diesel Range Organics	140	mg/kg	J,14
NS-COMP-09	05-255-25,26,27 Comp.	Lube Oil Range Organics	790	mg/kg	J,14
NS-COMP-10	05-255-28,29,30 Comp.	Diesel Range Organics	240	mg/kg	J,14
NS-COMP-10	05-255-28,29,30 Comp.	Lube Oil Range Organics	960	mg/kg	J,14

## **APPENDIX C**

### **DATA VALIDATION CHECKLISTS**



# VALIDATION WORKSHEET

Method: NWTPH - Dx  
 Date Reviewed: 8.22.17  
 Sample Collection Dates: 5.18.17

SDG: 1705-255  
 Reviewer: C Jensen

The following data validation areas were reviewed:

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Validation Criteria	NS-01-SS1	NS-01-SS2	NS-01-SS3	NS-01-SS1	NS-01-SS2	NS-01-SS3	NS-Comp-01	NS-Comp-02	NS-Comp-03	NS-Comp-04	NS-Comp-05	NS-Comp-06	NS-Comp-07	NS-Comp-08	NS-Comp-09	NS-Comp-10	NS-Comp-11	NS-Comp-12	NS-Comp-13	NS-Comp-14
Sample results	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Holding Times	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Completion	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Method Blanks	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LCS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
duplicate RPD	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MS/MSD:	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

Comments:	Surv. low NS-Comp-01 T, 13
	NS Comp-07 T, 13
	gild 5/17
	prep 5/30/17 5.24.17
	rev 5/31/17 5.24.17
	N flag - high calcium in tube range impacting diesel result.
	T, 14 Diesel and tube NS-Comp-01
	NS-Comp-02
	-03
	-04
	-05
	-06
	-07
	-08
	-09
	-10

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

# **NWTPH-Dx**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-01-SS1</b>					
Laboratory ID:	05-255-01					
Diesel Range Organics	<b>ND</b>	38	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>120</b>	76	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	101	50-150				

<b>Client ID:</b>	<b>NS-01-SS2</b>					
Laboratory ID:	05-255-02					
Diesel Range Organics	<b>ND</b>	32	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>160</b>	64	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	91	50-150				

<b>Client ID:</b>	<b>NS-01-SS3</b>					
Laboratory ID:	05-255-03					
Diesel Range Organics	<b>ND</b>	47	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>310</b>	93	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	90	50-150				

<b>Client ID:</b>	<b>NS-07-SS1</b>					
Laboratory ID:	05-255-19					
Diesel Range Organics	<b>ND</b>	36	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>220</b>	71	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	104	50-150				

<b>Client ID:</b>	<b>NS-07-SS2</b>					
Laboratory ID:	05-255-20					
Diesel Range Organics	<b>ND</b>	37	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	<b>170</b>	74	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	103	50-150				

<b>Client ID:</b>	<b>NS-07-SS3</b>					
Laboratory ID:	05-255-21					
Diesel Range Organics	<b>ND</b>	45	NWTPH-Dx	5-30-17	5-31-17	U1
Lube Oil Range Organics	<b>360</b>	84	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	93	50-150				

*Handwritten:*  
 elevated  
 information



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

# **NWTPH-Dx**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-03</b>						
Laboratory ID:	05-255-07,08,09 Comp.					
Diesel Range Organics	ND	83	NWTPH-Dx	5-24-17	5-30-17	U1,X1
Lube Oil	280	78	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	83	50-150				

<b>Client ID: NS-COMP-04</b>						
Laboratory ID:	05-255-10,11,12 Comp.					
Diesel Range Organics	ND	37	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil	170	74	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	78	50-150				

<b>Client ID: NS-COMP-08</b>						
Laboratory ID:	05-255-22,23,24 Comp.					
Diesel Range Organics	ND	41	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil	220	82	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	79	50-150				

<b>Client ID: NS-COMP-09</b>						
Laboratory ID:	05-255-25,26,27 Comp.					
Diesel Range Organics	ND	41	NWTPH-Dx	5-24-17	5-30-17	X1
Lube Oil	190	82	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	69	50-150				

<b>Client ID: NS-COMP-10</b>						
Laboratory ID:	05-255-28,29,30 Comp.					
Diesel Range Organics	ND	57	NWTPH-Dx	5-24-17	5-30-17	U1,X1
Lube Oil	260	86	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	74	50-150				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-01</b>						
Laboratory ID:	05-255-01,02,03 Comp.					
Diesel Range Organics	41	39	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	170	78	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	49	50-150				

<b>Client ID: NS-COMP-02</b>						
Laboratory ID:	05-255-04,05,06 Comp.					
Diesel Range Organics	43	36	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	320	71	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	80	50-150				

<b>Client ID: NS-COMP-03</b>						
Laboratory ID:	05-255-07,08,09 Comp.					
Diesel Range Organics	240	39	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	1300	78	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				

<b>Client ID: NS-COMP-04</b>						
Laboratory ID:	05-255-10,11,12 Comp.					
Diesel Range Organics	180	37	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	1100	74	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	82	50-150				

<b>Client ID: NS-COMP-05</b>						
Laboratory ID:	05-255-13,14,15 Comp.					
Diesel Range Organics	61	34	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	400	68	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	60	50-150				

<b>Client ID: NS-COMP-06</b>						
Laboratory ID:	05-255-16,17,18 Comp.					
Diesel Range Organics	150	36	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	570	72	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	51	50-150				



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Date of Report: June 16, 2017  
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 Laboratory Reference: 1705-255  
 Project: 1267-004

### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-07</b>						
Laboratory ID:	05-255-19,20,21 Comp.					
Diesel Range Organics	46	38	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	210	77	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	28	50-150				

<b>Client ID: NS-COMP-08</b>						
Laboratory ID:	05-255-22,23,24 Comp.					
Diesel Range Organics	160	41	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	790	82	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	76	50-150				

<b>Client ID: NS-COMP-09</b>						
Laboratory ID:	05-255-25,26,27 Comp.					
Diesel Range Organics	140	41	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	790	82	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				

<b>Client ID: NS-COMP-10</b>						
Laboratory ID:	05-255-28,29,30 Comp.					
Diesel Range Organics	240	43	NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	960	86	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				

<b>Client ID: NS-COMP-11</b>						
Laboratory ID:	05-255-31,32,33 Comp.					
Diesel Range Organics	ND	35	NWTPH-Dx	5-24-17	5-24-17	
Lube Oil Range Organics	160	70	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	69	50-150				



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# VALIDATION WORKSHEET

Method: Organochlorine Pest 8081B

Date Reviewed: 8-22-17

Sample Collection Dates: 5-18-17

SDG: 1705-255

Reviewer: C Jensen

The following data validation areas were reviewed:

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Validation Criteria	NS-01-SS1	NS-01-SS2	NS-01-SS3	NS-02-SS1	NS-02-SS2	NS-02-SS3	NS-03-SS1	NS-03-SS2	NS-03-SS3	NS-04-SS1	NS-04-SS2	NS-04-SS3	NS-05-SS1	NS-05-SS2	NS-05-SS3	NS-06-SS1	NS-06-SS2	NS-06-SS3	NS-07-SS1	NS-07-SS2
Sample results	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Holding Times	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Completion	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Method Blanks	4	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LCS	3/35/100	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
duplicate RPD																				
MS/MSD	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

Comments:

Spec 5.18.17

prep 6/1/17, 6.9.17, 5.24.17

run 6/1/17, 6.7.17, 6.9.17, 6.8.17, 5.26.17, 5.30.17

① We noted NS-03-SS2 no compounds in original J, 100%  
 re-extracted and re-eval. Re-extr. Qual J, 100%, 13  
 Orig. extract - R<sub>13</sub> all (all cups)

Surv low DUB for NS-07-SS3 No flag, no surv. in.

2032

# VALIDATION WORKSHEET

Method: Organochlorine test 8091B  
 Date Reviewed: 8-22-17  
 Sample Collection Dates: 3-18-17

SDG: 1765-255  
 Reviewer: C Jensen

The following data validation areas were reviewed:

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Validation Criteria	NS	NS	NS																	
Sample results	11	11	11																	
Holding Times	A	A	A																	
Completion	A	A	A																	
Method Blanks	A	A	A	A																
LCS	A	A	A																	
duplicate RPD																				
MS/MSD:																				
-22, 23, 24	A																			

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

Comments: MS/MSD - ok  
Splice blank / Spike - ok

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-01-SS1					
Laboratory ID:	05-255-01					
alpha-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	7.6	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	7.6	EPA 8081B	6-1-17	6-1-17	
Dieldrin	44	15	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	76	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	71	46-106				
DCB	73	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-01-SS2</b>					
<b>Laboratory ID:</b>	<b>05-255-02</b>					
alpha-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.4	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.4	EPA 8081B	6-1-17	6-1-17	
Dieldrin	56	13	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	13	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	64	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	46-106				
DCB	69	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-01-SS3					
Laboratory ID:	05-255-03					
alpha-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	9.3	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	19	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	19	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	19	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	9.3	EPA 8081B	6-1-17	6-1-17	
Dieldrin	100	19	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	19	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	19	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	19	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	19	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	19	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	19	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	19	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	19	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	93	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	54	46-106				
DCB	55	53-122				



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 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-02-SS1</b>					
<b>Laboratory ID:</b>	<b>05-255-04</b>					
alpha-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	7.3	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	7.3	EPA 8081B	6-1-17	6-1-17	
Dieldrin	60	15	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	73	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	46-106				
DCB	68	53-122				



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 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-02-SS2					
Laboratory ID:	05-255-05					
alpha-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.7	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.7	EPA 8081B	6-1-17	6-7-17	
Dieldrin	140	15	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	77	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	67	46-106				
DCB	60	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-02-SS3					
Laboratory ID:	05-255-06					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-1-17	
Dieldrin	110	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	68	46-106				
DCB	65	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-03-SS1					
Laboratory ID:	05-255-07					
alpha-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	6.7	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	6.7	EPA 8081B	6-1-17	6-7-17	
Dieldrin	490	13	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	13	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	67	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	68	46-106				
DCB	62	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-03-SS2					
Laboratory ID:	05-255-08					
alpha-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.9	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.9	EPA 8081B	6-1-17	6-7-17	
Dieldrin	270	16	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	79	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	---	46-106				
DCB	---	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-03-SS2					
Laboratory ID:	05-255-08					
alpha-BHC	ND <i>U.S. 13</i>	7.9	EPA 8081B	6-9-17	6-9-17	
gamma-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
beta-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
delta-BHC	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Heptachlor	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Aldrin	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Heptachlor Epoxide	ND	7.9	EPA 8081B	6-9-17	6-9-17	
gamma-Chlordane	ND	16	EPA 8081B	6-9-17	6-9-17	
alpha-Chlordane	ND	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDE	ND	16	EPA 8081B	6-9-17	6-9-17	
Endosulfan I	ND	7.9	EPA 8081B	6-9-17	6-9-17	
Dieldrin	420 <i>J 13</i>	16	EPA 8081B	6-9-17	6-9-17	
Endrin	ND <i>J 13</i>	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDD	ND	16	EPA 8081B	6-9-17	6-9-17	
Endosulfan II	ND	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDT	ND	16	EPA 8081B	6-9-17	6-9-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-9-17	6-9-17	
Methoxychlor	ND	16	EPA 8081B	6-9-17	6-9-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-9-17	6-9-17	
Endrin Ketone	ND	16	EPA 8081B	6-9-17	6-9-17	
Toxaphene	ND <i>4</i>	79	EPA 8081B	6-9-17	6-9-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	77	46-106				
DCB	94	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-03-SS3					
Laboratory ID:	05-255-09					
alpha-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	8.2	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	27	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	8.2	EPA 8081B	6-1-17	6-7-17	
Dieldrin	360	16	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	82	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	55	46-106				
DCB	57	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-04-SS1					
Laboratory ID:	05-255-10					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	76	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	58	46-106				
DCB	58	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-04-SS2					
Laboratory ID:	05-255-11					
alpha-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	17	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Dieldrin	180	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	75	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	65	46-106				
DCB	59	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-04-SS3					
Laboratory ID:	05-255-12					
alpha-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.2	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	17	14	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.2	EPA 8081B	6-1-17	6-8-17	
Dieldrin	81	14	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	72	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	82	46-106				
DCB	74	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-05-SS1					
Laboratory ID:	05-255-13					
alpha-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.3	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.3	EPA 8081B	6-1-17	6-8-17	
Dieldrin	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	73	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	64	46-106				
DCB	61	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-05-SS2					
Laboratory ID:	05-255-14					
alpha-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	6.7	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	6.7	EPA 8081B	6-1-17	6-8-17	
Dieldrin	1300	130	EPA 8081B	6-1-17	6-9-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	27	13	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	67	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	64	46-106				
DCB	73	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-05-SS3					
Laboratory ID:	05-255-15					
alpha-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	6.3	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	6.3	EPA 8081B	6-1-17	6-8-17	
Dieldrin	60	13	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	13	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	13	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	13	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	13	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	13	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	13	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	63	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	69	46-106				
DCB	67	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-06-SS1</b>					
<b>Laboratory ID:</b>	<b>05-255-16</b>					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	370	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	63	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	160	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	190	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	46-106				
DCB	64	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-06-SS2</b>					
<b>Laboratory ID:</b>	<b>05-255-17</b>					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Dieldrin	380	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	73	46-106				
DCB	70	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-06-SS3					
Laboratory ID:	05-255-18					
alpha-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.5	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.5	EPA 8081B	6-1-17	6-8-17	
Dieldrin	51	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	16	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	75	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	53	46-106				
DCB	53	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-07-SS1					
Laboratory ID:	05-255-19					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	18	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	190	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	64	46-106				
DCB	58	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-07-SS2					
Laboratory ID:	05-255-20					
alpha-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.4	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.4	EPA 8081B	6-1-17	6-7-17	
Dieldrin	100	15	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	74	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	59	46-106				
DCB	53	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-07-SS3</b>					
<b>Laboratory ID:</b>	<b>05-255-21</b>					
alpha-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	8.4	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	17	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	17	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	17	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	8.4	EPA 8081B	6-1-17	6-7-17	
Dieldrin	18	17	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	17	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	17	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	17	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	17	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	17	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	17	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	17	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	17	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	84	EPA 8081B	6-1-17	6-7-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	50	46-106				
DCB	47	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-08-SS1					
Laboratory ID:	05-255-22					
alpha-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.8	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.8	EPA 8081B	6-1-17	6-8-17	
Dieldrin	50	16	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	78	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	62	46-106				
DCB	55	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-08-SS2					
Laboratory ID:	05-255-23					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-7-17	
Dieldrin	150	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	70	46-106				
DCB	65	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-08-SS3					
Laboratory ID:	05-255-24					
alpha-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	9.7	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	19	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	19	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	19	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	9.7	EPA 8081B	6-1-17	6-8-17	
Dieldrin	160	19	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	19	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	19	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	19	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	19	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	19	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	19	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	19	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	19	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	97	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	57	46-106				
DCB	55	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-09-SS1					
Laboratory ID:	05-255-25					
alpha-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.9	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	110	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.9	EPA 8081B	6-1-17	6-8-17	
Dieldrin	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	77	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	16	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	22	16	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	16	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	16	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	16	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	16	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	79	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	64	46-106				
DCB	61	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-09-SS2					
Laboratory ID:	05-255-26					
alpha-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.4	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	22	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.4	EPA 8081B	6-1-17	6-8-17	
Dieldrin	2200	150	EPA 8081B	6-1-17	6-9-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	74	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	71	46-106				
DCB	63	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-09-SS3					
Laboratory ID:	05-255-27					
alpha-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	8.9	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	18	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	18	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	18	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	8.9	EPA 8081B	6-1-17	6-8-17	
Dieldrin	160	18	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	18	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	18	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	18	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	18	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	18	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	18	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	18	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	18	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	89	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	64	46-106				
DCB	58	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-10-SS1					
Laboratory ID:	05-255-28					
alpha-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	10	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	21	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	21	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	21	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	10	EPA 8081B	6-1-17	6-8-17	
Dieldrin	ND	21	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	21	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	21	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	21	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	21	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	21	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	21	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	21	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	21	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	100	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	58	46-106				
DCB	53	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-10-SS2					
Laboratory ID:	05-255-29					
alpha-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	10	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	10	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	10	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	20	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	20	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	20	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	10	EPA 8081B	6-1-17	6-8-17	
Dieldrin	240	20	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	20	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	20	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	20	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	20	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	20	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	20	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	20	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	20	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	100	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	62	46-106				
DCB	58	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-10-SS3</b>					
<b>Laboratory ID:</b>	<b>05-255-30</b>					
alpha-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
gamma-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
beta-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
delta-BHC	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Heptachlor	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Aldrin	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Heptachlor Epoxide	ND	7.6	EPA 8081B	6-1-17	6-8-17	
gamma-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
alpha-Chlordane	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDE	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan I	ND	7.6	EPA 8081B	6-1-17	6-8-17	
Dieldrin	110	15	EPA 8081B	6-1-17	6-8-17	
Endrin	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDD	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan II	ND	15	EPA 8081B	6-1-17	6-8-17	
4,4'-DDT	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Aldehyde	ND	15	EPA 8081B	6-1-17	6-8-17	
Methoxychlor	ND	15	EPA 8081B	6-1-17	6-8-17	
Endosulfan Sulfate	ND	15	EPA 8081B	6-1-17	6-8-17	
Endrin Ketone	ND	15	EPA 8081B	6-1-17	6-8-17	
Toxaphene	ND	76	EPA 8081B	6-1-17	6-8-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
TCMX	64	46-106				
DCB	58	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>NS-11-SS1</b>					
<b>Laboratory ID:</b>	<b>05-255-31</b>					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Dieldrin	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	67	46-106				
DCB	65	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-11-SS2					
Laboratory ID:	05-255-32					
alpha-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
beta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
delta-BHC	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Aldrin	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	6-1-17	6-1-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan I	ND	6.8	EPA 8081B	6-1-17	6-1-17	
Dieldrin	53	14	EPA 8081B	6-1-17	6-1-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-1-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-1-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-1-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-1-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-1-17	
Toxaphene	ND	68	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	67	46-106				
DCB	69	53-122				





Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-11-SS3					
Laboratory ID:	05-255-33					
alpha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
beta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
delta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Aldrin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
gamma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
alpha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDE	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
Dieldrin	24	14	EPA 8081B	6-1-17	6-7-17	
Endrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDD	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4,4'-DDT	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
Methoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
Endosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
Endrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
Toxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	76	46-106				
DCB	74	53-122				



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-01</b>						
<b>Laboratory ID: 05-255-01,02,03 Comp.</b>						
alpha-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Dieldrin	130	16	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	78	EPA 8081B	5-24-17	5-26-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	46-106				
DCB	81	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-02</b>						
<b>Laboratory ID: 05-255-04,05,06 Comp.</b>						
alpha-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	7.1	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	14	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	7.1	EPA 8081B	5-24-17	5-26-17	
Dieldrin	130	14	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	ND	14	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	71	EPA 8081B	5-24-17	5-26-17	
<b>Surrogate: Percent Recovery Control Limits</b>						
TCMX	76	46-106				
DCB	77	53-122				



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 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-03</b>						
<b>Laboratory ID: 05-255-07,08,09 Comp.</b>						
alpha-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
beta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
delta-BHC	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Aldrin	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Heptachlor Epoxide	ND	7.8	EPA 8081B	5-24-17	5-26-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDE	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan I	ND	7.8	EPA 8081B	5-24-17	5-26-17	
Dieldrin	450	16	EPA 8081B	5-24-17	5-26-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDD	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-26-17	
4,4'-DDT	18	16	EPA 8081B	5-24-17	5-26-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-26-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND	78	EPA 8081B	5-24-17	5-26-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	46-106				
DCB	76	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-04</b>						
<b>Laboratory ID: 05-255-10,11,12 Comp.</b>						
alpha-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.3	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	20	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Dieldrin	140	15	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	15	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	15	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	73	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	46-106				
DCB	85	53-122				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-05</b>						
<b>Laboratory ID: 05-255-13,14,15 Comp.</b>						
alpha-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	6.8	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	6.8	EPA 8081B	5-24-17	5-30-17	
Dieldrin	420	14	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	68	EPA 8081B	5-24-17	5-30-17	
<b>Surrogate:</b>						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	77	46-106				
DCB	82	53-122				



Date of Report: June 16, 2017  
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 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-06</b>						
<b>Laboratory ID: 05-255-16,17,18 Comp.</b>						
alpha-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.2	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	110	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.2	EPA 8081B	5-24-17	5-30-17	
Dieldrin	270	14	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	120	14	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	72	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	46-106				
DCB	67	53-122				



Date of Report: June 16, 2017  
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 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-07</b>						
<b>Laboratory ID: 05-255-19,20,21 Comp.</b>						
alpha-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.7	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	21	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Dieldrin	180	15	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	15	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	15	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	77	EPA 8081B	5-24-17	5-30-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
TCMX	82	46-106				
DCB	81	53-122				



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 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-08</b>						
<b>Laboratory ID: 05-255-22,23,24 Comp.</b>						
alpha-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Dieldrin	230	16	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	16	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	82	EPA 8081B	5-24-17	5-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	73	46-106				
DCB	75	53-122				



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 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-09</b>						
<b>Laboratory ID: 05-255-25,26,27 Comp.</b>						
alpha-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	8.2	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	70	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	8.2	EPA 8081B	5-24-17	5-30-17	
Dieldrin	620	16	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	33	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	16	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	74	16	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	16	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	16	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	16	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	82	EPA 8081B	5-24-17	5-30-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
TCMX	75	46-106				
DCB	78	53-122				



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 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-10</b>						
<b>Laboratory ID: 05-255-28,29,30 Comp.</b>						
alpha-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	8.6	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	17	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	17	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	8.6	EPA 8081B	5-24-17	5-30-17	
Dieldrin	230	17	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	17	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	17	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	17	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	17	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	17	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	17	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	86	EPA 8081B	5-24-17	5-30-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
TCMX	81	46-106				
DCB	81	53-122				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**ORGANOCHLORINE  
 PESTICIDES EPA 8081B**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-11</b>						
<b>Laboratory ID: 05-255-31,32,33 Comp.</b>						
alpha-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
beta-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
delta-BHC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Aldrin	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	ND	7.0	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Dieldrin	37	14	EPA 8081B	5-24-17	5-30-17	
Endrin	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND	70	EPA 8081B	5-24-17	5-30-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
TCMX	80	46-106				
DCB	83	53-122				



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# VALIDATION WORKSHEET

Method: Chlorinated herbicides 8151A  
 Date Reviewed: 8-22-17  
 Sample Collection Dates: 5-18-17

SDG: 1705-255  
 Reviewer: C Jensen

The following data validation areas were reviewed:

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Validation Criteria	NS Comp-01	NS Comp-02	NS Comp-03	NS Comp-04	NS Comp-05	NS Comp-06	NS Comp-07	NS Comp-08	NS Comp-09	NS Comp-10	NS Comp-11									
Sample results	A	A	A	A	A	A	A	A	A	A	A									
Holding Times	A	A	A	A	A	A	A	A	A	A	A									
Completion	A	A	A	A	A	A	A	A	A	A	A									
Method Blanks	A	A	A	A	A	A	A	A	A	A	A									
LCS																				
duplicate RPD																				
MS/MSD: -22,23,24	A	A	A	A	A	A	A	ⓧ A	A	A	A									

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

## Comments:

Sold 5-18-17      ① MS/MSD RPD high for Dicamba 20 (Unit 17)  
 prep 5-25-17      flagging patient only NS-Comp-08  
 run 5-26-17      UT, 9

Summary ok.

no fbs

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-01</b>						
Laboratory ID: 05-255-01,02,03 Comp.						
Dalapon	ND	360	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	110	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.4	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	54	18-111				

<b>Client ID: NS-COMP-02</b>						
Laboratory ID: 05-255-04,05,06 Comp.						
Dalapon	ND	330	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	13	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1300	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1300	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	100	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	6.7	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	63	18-111				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-03</b>						
Laboratory ID: 05-255-07,08,09 Comp.						
Dalapon	ND	360	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	110	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.4	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	52	18-111				

<b>Client ID: NS-COMP-04</b>						
Laboratory ID: 05-255-10,11,12 Comp.						
Dalapon	ND	340	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	14	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	100	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	14	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.0	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	14	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	14	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	59	18-111				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-05</b>						
Laboratory ID: 05-255-13,14,15 Comp.						
Dalapon	ND	310	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	13	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1300	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1300	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	96	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	9.1	6.4	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	58	18-111				

<b>Client ID: NS-COMP-06</b>						
Laboratory ID: 05-255-16,17,18 Comp.						
Dalapon	ND	330	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	14	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	100	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	14	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	6.9	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	14	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	14	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	14	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	54	18-111				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-07</b>						
Laboratory ID: 05-255-19,20,21 Comp.						
Dalapon	ND	350	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	14	EPA 8151A	5-25-17	5-26-17	
MCPP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	110	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	14	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.3	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	60	18-111				

<b>Client ID: NS-COMP-08</b>						
Laboratory ID: 05-255-22,23,24 Comp.						
Dalapon	ND	370	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCPP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.8	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	15	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	59	18-111				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-09</b>						
Laboratory ID: 05-255-25,26,27 Comp.						
Dalapon	ND	380	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1500	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	7.8	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	16	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	16	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	64	18-111				

<b>Client ID: NS-COMP-10</b>						
Laboratory ID: 05-255-28,29,30 Comp.						
Dalapon	ND	390	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	16	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1600	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1600	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	16	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	8.2	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	16	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	16	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	16	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	63	18-111				



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**CHLORINATED ACID  
 HERBICIDES EPA 8151A**

Matrix: Soil  
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID: NS-COMP-11</b>						
Laboratory ID: 05-255-31,32,33 Comp.						
Dalapon	ND	320	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND	13	EPA 8151A	5-25-17	5-26-17	
MCP	ND	1300	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1300	EPA 8151A	5-25-17	5-26-17	
Dichlorprop	ND	99	EPA 8151A	5-25-17	5-26-17	
2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	ND	6.6	EPA 8151A	5-25-17	5-26-17	
2,4,5-TP (Silvex)	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCAA	61	18-111				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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# VALIDATION WORKSHEET

Method: cd, Pb 600/60

Date Reviewed: 8.21.17

Sample Collection Dates: 5.18.17

SDG: 1705-255 255B  
Reviewer: C Jensen

The following data validation areas were reviewed:

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
													total Pb				TCUP Pb			
Validation Criteria	NS-03-SS1	NS-03-SS2	NS-03-SS3	NS-05-SS1	NS-05-SS2	NS-05-SS3	NS-07-SS1	NS-07-SS2	NS-07-SS3	NS-08-SS1	NS-08-SS2	NS-08-SS3	NS-02-SS1	NS-02-SS2	NS-02-SS3		NS-05-SS2			
Sample results	A												A				A			
Holding Times	A												A				A			
Completion	A												A				A			
Method Blanks	A												A				A			
LCS																				
duplicate RPD	A												A				A			
MS/MSD: <u>data</u>	A												A				A			

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

## Comments:

anal 5.18.17  
prep 6.7.17  
run 6.8.17

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<hr/>						
Lab ID:	05-255-07					
Client ID:	NS-03-SS1					
Cadmium	ND	0.67	6010C	6-7-17	6-8-17	
Lead	110	6.7	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-08					
Client ID:	NS-03-SS2					
Cadmium	1.2	0.79	6010C	6-7-17	6-8-17	
Lead	72	7.9	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-09					
Client ID:	NS-03-SS3					
Cadmium	ND	0.82	6010C	6-7-17	6-8-17	
Lead	75	8.2	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-13					
Client ID:	NS-05-SS1					
Cadmium	0.76	0.73	6010C	6-7-17	6-8-17	
Lead	210	7.3	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-14					
Client ID:	NS-05-SS2					
Cadmium	1.5	0.67	6010C	6-7-17	6-8-17	
Lead	310	6.7	6010C	6-7-17	6-8-17	
<hr/>						
Lab ID:	05-255-15					
Client ID:	NS-05-SS3					
Cadmium	ND	0.63	6010C	6-7-17	6-8-17	
Lead	60	6.3	6010C	6-7-17	6-8-17	



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Date of Report: June 16, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255  
Project: 1267-004

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**TOTAL LEAD  
EPA 6010C**

Matrix: Soil  
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-255-19					
Client ID:	NS-07-SS1					
Lead	52	7.1	6010C	6-7-17	6-9-17	
Lab ID:	05-255-20					
Client ID:	NS-07-SS2					
Lead	78	7.4	6010C	6-7-17	6-9-17	
Lab ID:	05-255-21					
Client ID:	NS-07-SS3					
Lead	270	8.4	6010C	6-7-17	6-9-17	
Lab ID:	05-255-22					
Client ID:	NS-08-SS1					
Lead	120	7.8	6010C	6-7-17	6-9-17	
Lab ID:	05-255-23					
Client ID:	NS-08-SS2					
Lead	110	6.8	6010C	6-7-17	6-9-17	
Lab ID:	05-255-24					
Client ID:	NS-08-SS3					
Lead	54	9.7	6010C	6-7-17	6-9-17	



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL LEAD  
 EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	05-255-04					
Client ID:	NS-02-SS1					
Lead	51	7.3	6010C	6-13-17	6-13-17	
Lab ID:	05-255-05					
Client ID:	NS-02-SS2					
Lead	280	7.7	6010C	6-13-17	6-13-17	
Lab ID:	05-255-06					
Client ID:	NS-02-SS3					
Lead	100	7.1	6010C	6-13-17	6-13-17	



Date of Report: July 27, 2017  
Samples Submitted: May 19, 2017  
Laboratory Reference: 1705-255B  
Project: 1267-004

**TCLP LEAD**  
**EPA 1311/6010C**

Matrix: TCLP Extract  
Units: mg/L (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	05-255-14					
Client ID:	NS-05-SS2					
Lead	ND	0.20	6010C	7-25-17	7-25-17	



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# VALIDATION WORKSHEET

Method: Metalite LAOC/7471B

Date Reviewed: 8.21.17

Sample Collection Dates: 5.18.17

The following data validation areas were reviewed:

SDG: 1705-255

Reviewer: C Jensen

Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Validation Criteria	NS Comp-01	NS Comp-02	NS Comp-03	NS Comp-04	NS Comp-05	NS Comp-06	NS Comp-07	NS Comp-08	NS Comp-09	NS Comp-10	NS Comp-11									
Sample results	A	A	A	A	A	A	A	A	A	A	A									
Holding Times	A	A	A	A	A	A	A	A	A	A	A									
Completion	A	A	A	A	A	A	A	A	A	A	A									
Method Blanks	A	A	A	A	A	A	A	A	A	A	A									
LCS																				
duplicate RPD	A	A	A	A	A	A	A	A	A	A	A									
MS/MSD:	A	A	A	A	A	A	A	A	A	A	A									
<u>data</u>	A	A	A	A	A	A	A	A	A	A	A									

Note: X = Criteria were evaluated and not met. A = Criteria were evaluated and met. N = Data was not available for review. NA = Not applicable.

Comments: lab dup - ok 30, 40

Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID: 05-255-01,02,03 Comp.						
Client ID: NS-COMP-01						
Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	110	3.9	6010C	5-25-17	5-25-17	
Cadmium	ND	0.78	6010C	5-25-17	5-25-17	
Chromium	47	0.78	6010C	5-25-17	5-25-17	
Lead	53	7.8	6010C	5-25-17	5-25-17	
Mercury	ND	0.39	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	

Lab ID: 05-255-04,05,06 Comp.  
 Client ID: NS-COMP-02

Arsenic	ND	14	6010C	5-25-17	5-25-17	
Barium	85	3.5	6010C	5-25-17	5-25-17	
Cadmium	ND	0.71	6010C	5-25-17	5-25-17	
Chromium	47	0.71	6010C	5-25-17	5-25-17	
Lead	260	7.1	6010C	5-25-17	5-25-17	
Mercury	ND	0.35	7471B	5-26-17	5-26-17	
Selenium	ND	14	6010C	5-25-17	5-25-17	
Silver	ND	1.4	6010C	5-25-17	5-25-17	



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID: 05-255-07,08,09 Comp.						
Client ID: NS-COMP-03						
Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	84	3.9	6010C	5-25-17	5-25-17	
Cadmium	0.80	0.78	6010C	5-25-17	5-25-17	
Chromium	50	0.78	6010C	5-25-17	5-25-17	
Lead	92	7.8	6010C	5-25-17	5-25-17	
Mercury	ND	0.39	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	

Lab ID: 05-255-10,11,12 Comp.  
 Client ID: NS-COMP-04

Arsenic	ND	15	6010C	5-25-17	5-25-17	
Barium	81	3.7	6010C	5-25-17	5-25-17	
Cadmium	ND	0.73	6010C	5-25-17	5-25-17	
Chromium	58	0.73	6010C	5-25-17	5-25-17	
Lead	72	7.3	6010C	5-25-17	5-25-17	
Mercury	ND	0.37	7471B	5-26-17	5-26-17	
Selenium	ND	15	6010C	5-25-17	5-25-17	
Silver	ND	1.5	6010C	5-25-17	5-25-17	



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	05-255-13,14,15 Comp.					
Client ID:	NS-COMP-05					
Arsenic	ND	14	6010C	5-25-17	5-25-17	
Barium	86	3.4	6010C	5-25-17	5-25-17	
Cadmium	0.91	0.68	6010C	5-25-17	5-25-17	
Chromium	44	0.68	6010C	5-25-17	5-25-17	
Lead	210	6.8	6010C	5-25-17	5-25-17	
Mercury	ND	0.34	7471B	5-26-17	5-26-17	
Selenium	ND	14	6010C	5-25-17	5-25-17	
Silver	ND	1.4	6010C	5-25-17	5-25-17	

Lab ID: 05-255-16,17,18 Comp.  
 Client ID: NS-COMP-06

Arsenic	ND	14	6010C	5-25-17	5-25-17	
Barium	87	3.6	6010C	5-25-17	5-25-17	
Cadmium	ND	0.72	6010C	5-25-17	5-25-17	
Chromium	41	0.72	6010C	5-25-17	5-25-17	
Lead	45	7.2	6010C	5-25-17	5-25-17	
Mercury	ND	0.36	7471B	5-26-17	5-26-17	
Selenium	ND	14	6010C	5-25-17	5-25-17	
Silver	ND	1.4	6010C	5-25-17	5-25-17	



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID: 05-255-19,20,21 Comp.						
Client ID: NS-COMP-07						
Arsenic	ND	15	6010C	5-25-17	5-25-17	
Barium	98	3.8	6010C	5-25-17	5-25-17	
Cadmium	ND	0.77	6010C	5-25-17	5-25-17	
Chromium	49	0.77	6010C	5-25-17	5-25-17	
Lead	160	7.7	6010C	5-25-17	5-25-17	
Mercury	ND	0.38	7471B	5-26-17	5-26-17	
Selenium	ND	15	6010C	5-25-17	5-25-17	
Silver	ND	1.5	6010C	5-25-17	5-25-17	

Lab ID: 05-255-22,23,24 Comp.  
 Client ID: NS-COMP-08

Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	100	4.1	6010C	5-25-17	5-25-17	
Cadmium	ND	0.82	6010C	5-25-17	5-25-17	
Chromium	47	0.82	6010C	5-25-17	5-25-17	
Lead	110	8.2	6010C	5-25-17	5-25-17	
Mercury	ND	0.41	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	



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Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID: 05-255-25,26,27 Comp.						
Client ID: NS-COMP-09						
Arsenic	ND	16	6010C	5-25-17	5-25-17	
Barium	220	4.1	6010C	5-25-17	5-25-17	
Cadmium	ND	0.82	6010C	5-25-17	5-25-17	
Chromium	39	0.82	6010C	5-25-17	5-25-17	
Lead	63	8.2	6010C	5-25-17	5-25-17	
Mercury	ND	0.41	7471B	5-26-17	5-26-17	
Selenium	ND	16	6010C	5-25-17	5-25-17	
Silver	ND	1.6	6010C	5-25-17	5-25-17	

Lab ID: 05-255-28,29,30 Comp.  
 Client ID: NS-COMP-10

Arsenic	ND	17	6010C	5-25-17	5-25-17	
Barium	110	4.3	6010C	5-25-17	5-25-17	
Cadmium	ND	0.86	6010C	5-25-17	5-25-17	
Chromium	44	0.86	6010C	5-25-17	5-25-17	
Lead	35	8.6	6010C	5-25-17	5-25-17	
Mercury	ND	0.43	7471B	5-26-17	5-26-17	
Selenium	ND	17	6010C	5-25-17	5-25-17	
Silver	ND	1.7	6010C	5-25-17	5-25-17	



Date of Report: June 16, 2017  
 Samples Submitted: May 19, 2017  
 Laboratory Reference: 1705-255  
 Project: 1267-004

**TOTAL METALS  
 EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	05-255-31,32,33 Comp.					
Client ID:	NS-COMP-11					
Arsenic	ND	14	6010C	5-25-17	5-25-17	
Barium	83	3.5	6010C	5-25-17	5-25-17	
Cadmium	ND	0.70	6010C	5-25-17	5-25-17	
Chromium	66	0.70	6010C	5-25-17	5-25-17	
Lead	27	7.0	6010C	5-25-17	5-25-17	
Mercury	ND	0.35	7471B	5-26-17	5-26-17	
Selenium	ND	14	6010C	5-25-17	5-25-17	
Silver	ND	1.4	6010C	5-25-17	5-25-17	



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Onsite  
Environmental Inc.

Analytical Laboratory Testing Services  
14013 NE 95th Street • Redmond, WA 98072  
Phone: (425) 863-3361 • www.onsite-env.com

## Chain of Custody

Page 1 of 1

Laboratory Number: 05-255			
Turnaround Request (in working days)			
(Check One)			
<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day			
<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days			
<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)			
<input type="checkbox"/> (other) _____			
Number of Containers		Matrix	
Date Sampled	Time Sampled	Date	Time
1	NS-01-551	7/10/03	5:15
2	NS-01-552	7/10/03	5:30
3	NS-01-553	7/10/03	5:45
4	NS-02-551	7/10/03	5:55
5	NS-02-552	7/10/03	6:05
6	NS-02-553	7/10/03	6:15
7	NS-02-551	7/10/03	6:25
8	NS-03-552	7/10/03	6:35
9	NS-03-553	7/10/03	6:45
Comments/Special Instructions			
Tanner Oil Leaking. Report to Sherris			
L.B. Oil + R.B. Oil + L.B. Oil + R.B. Oil			
Send to ERM			
Analyze composite of 3 then return to owner			
+ ship remaining discrete samples pending			
Ermco analysis			
Data Package: Standard   Level III   Level IV			
Chromatograms with final report - Electronic Data Deliverables (EDDs)			





# Onsite Environmental Inc.

Analytical Laboratory Testing Services  
14510 14<sup>th</sup> Street • Richmond, VA 94052  
Phone: (424) 853-3881 • www.onsite-env.com

## Chain of Custody

Page 2 of 2

Laboratory Number: 05-255

Turnaround Request  
(in working days)

(Check One)  
☐ Same Day ☐ 1 Day  
☐ 2 Days ☐ 3 Days  
☒ Standard (7 Days)  
(TPI analysis 5 Days)

Number of Containers

Date Sampled

Time Sampled

Matrix

Sample Identification

Lab ID

Signature

Company

Date

Time

Comments/Special Instructions

Level I

Level II

Level III

Level IV

Level V

Level VI

Level VII

Level VIII

Level IX

Level X

Level XI

Level XII

Level XIII

Level XIV

Level XV

Level XVI

Level XVII

Level XVIII

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Level LXXIX

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Level LXXXXXX XXXX XXXX XIX

Level LXXXXXX XXXX XXXX XX

Level LXXXXXX XXXX XXXX XXI

Level LXXXXXX XXXX XXXX XXII

Level LXXXXXX XXXX XXXX XXIII

Level LXXXXXX XXXX XXXX XXIV

Level LXXXXXX XXXX XXXX XXV

Level LXXXXXX XXXX XXXX XXVI

Level LXXXXXX XXXX XXXX XXVII

Level LXXXXXX XXXX XXXX XXVIII

Level LXXXXXX XXXX XXXX XXIX

Level LXXXXXX XXXX XXXX XXX

Level LXXXXXX XXXX XXXX XXXI

Level LXXXXXX XXXX XXXX XXXII

Level LXXXXXX XXXX XXXX XXXIII

Level LXXXXXX XXXX XXXX XXXIV

Level LXXXXXX XXXX XXXX XXXV

Level LXXXXXX XXXX XXXX XXXVI

Level LXXXXXX XXXX XXXX XXXVII

Level LXXXXXX XXXX XXXX XXXVIII

Level LXXXXXX XXXX XXXX XXXIX

Level LXXXXXX XXXX XXXX XXXX

Level LXXXXXX XXXX XXXX XI

Level LXXXXXX XXXX XXXX XII

Level LXXXXXX XXXX XXXX XIII

Level LXXXXXX XXXX XXXX XIV



# Chain of Custody

## Environmental Inc.

Analytical Laboratory Testing Services  
14628 NE 96th Street • Redmond, WA 98052  
Phone: (425) 885-3931 • www.onsite-env.com

Laboratory Number: 03-255

Turnaround Request  
(in working days)

- (Check One)
- ☐ Same Day ☐ 1 Day
- ☐ 2 Days ☐ 3 Days
- ☒ Standard (7 Days)  
(TPH analysis 5 Days)
- ☐ (other)

Number of Containers

Date Sampled Time Sampled Matrix

Lab ID Sample Identification

19 NS-07-551

20 NS-07-552

21 NS-07-553

22 NS-08-554

23 NS-08-555

24 NS-08-556

25 NS-08-557

26 NS-08-558

27 NS-08-559

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

Received

Relinquished

Received

Relinquished

Received

Relinquished

Received

Received Date

Data Package: Standard

Level III

Level IV

Chromatograms with final report... Electronic Data Deliverables (EDDs)



Page 4 of 4

**Luigi's**

Analytical Laboratory Testing Services  
14015 NE 15th Street • Richmond, WA 98052  
Phone: (425) 830-3881 • [www.on-site-cen.com](http://www.on-site-cen.com)

Laboratory Number:

02  
03  
04  
05  
06  
07

[illegible]