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 nearsurface 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 Tochilin, LG

Project Hydrogeologist

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

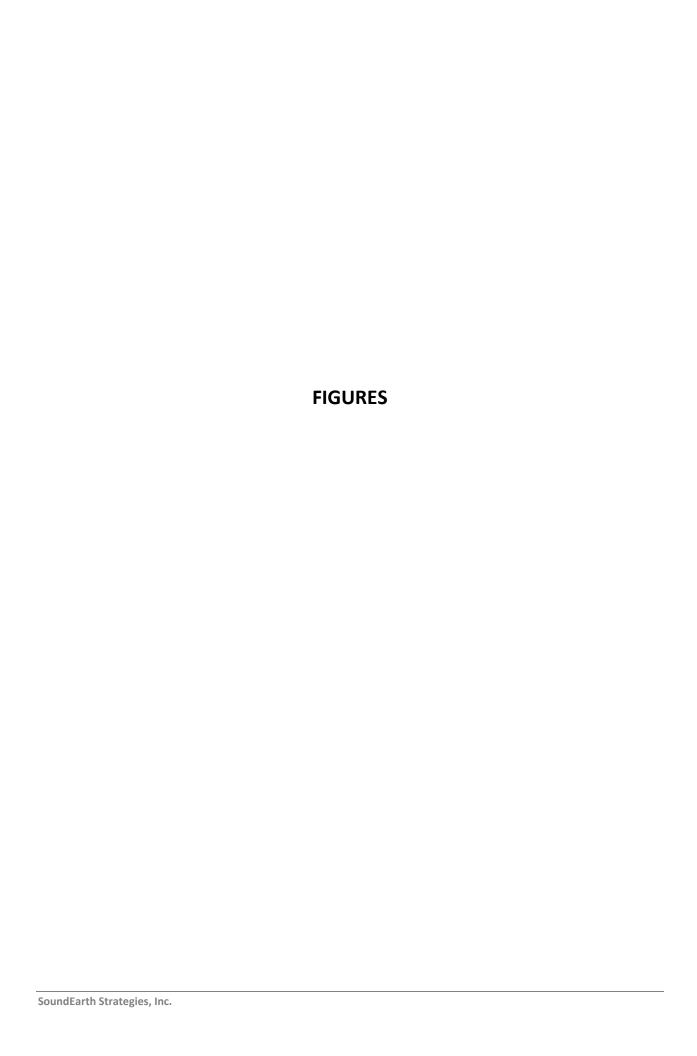
Table 1A, Composite Soil Sample Analytical Results for TPH Table 1B, Discrete Soil Sample Analytical Results for TPH

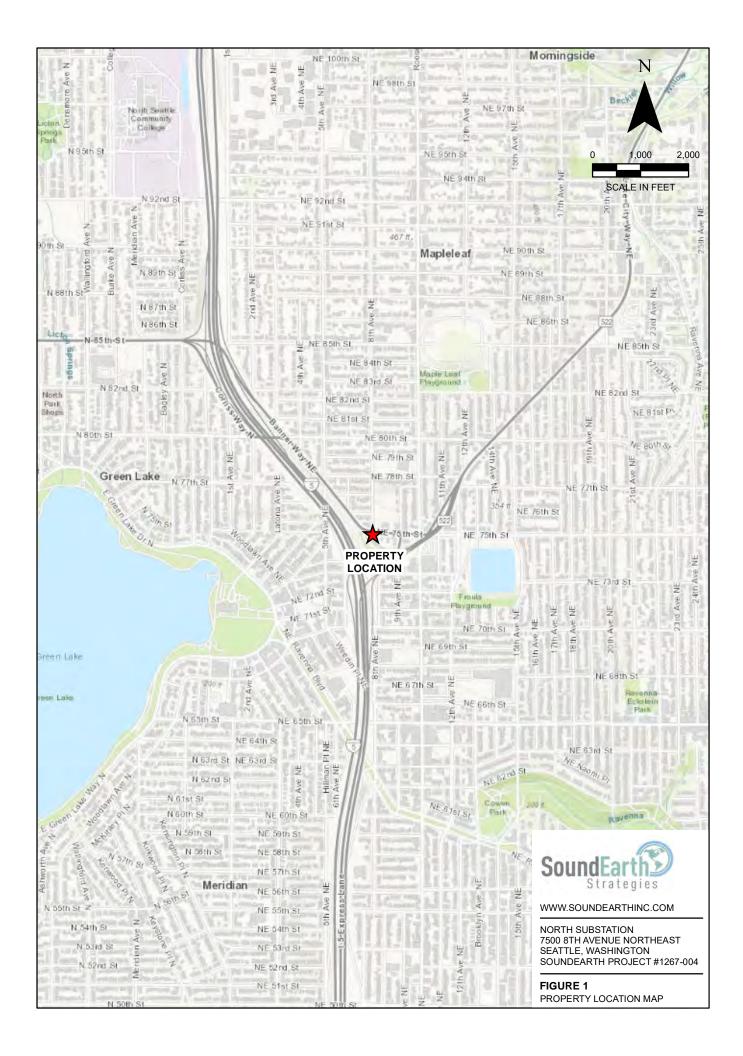
Table 2A, Composite Soil Sample Analytical Results for Pesticides Table 2B, Discrete Soil Sample Analytical Results for Pesticides

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











# **TABLES** SoundEarth Strategies, Inc.



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

					•	alytical Results ams per kilogram )				
Sample ID	Sampled By	Date Sampled	<b>Depth</b> (feet bgs)	DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>	DRPH <sup>(2)</sup>	ORPH <sup>(2)</sup>			
NS-COMP-01				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>	<b>1100</b> <sup>J</sup>	<37	170			
NS-COMP-05				61 <sup>N,J</sup>	400 <sub>J</sub>					
NS-COMP-06	SoundEarth	05/18/17	0–0.5	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>	<b>790</b> <sup>1</sup>	<41	220			
NS-COMP-09				140 <sup>N,J</sup>	<b>790</b> <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.

### Laboratory Notes:

-- = not analyzed/not applicable

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

bgs = below ground surface

DRPH = diesel-range petroleum hydrocarbons

 ${\sf MTCA = Washington\ State\ Model\ Toxics\ Control\ Act}$ 

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons SoundEarth = SoundEarth Strategies, Inc.

TPH = total petroleum hydrocarbons

WAC = Washington Administrative Code

 $<sup>\</sup>ensuremath{^{(1)}}\!\text{Analyzed}$  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>&</sup>lt;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.

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

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

<sup>&</sup>lt;sup>JR</sup>esult flagged as estimated.



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

				•	cal Results per kilogram )
	Sampled	Date	Depth		
Sample ID	Ву	Sampled	(feet bgs)	DRPH <sup>(1)</sup>	ORPH <sup>(1)</sup>
NS-01-SS1				<38	120
NS-01-SS2				<32	160
NS-01-SS3	SoundEarth	05/18/17	0-0.5	<47	310
NS-07-SS1	Journalaith	03/18/17	0-0.5	<36	220
NS-07-SS2				<37	170
NS-07-SS3				<45 <sup>U1</sup>	360
MTCA Cleanup Lev	el for Soil <sup>(2)</sup>			2,000	2,000

### NOTES:

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

### Laboratory Note:

< = 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

 $<sup>\</sup>ensuremath{^{(1)}}\mbox{\sc Analyzed}$  by Method NWTPH-Dx.

<sup>&</sup>lt;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.

 $<sup>^{\</sup>rm U1}\!$  The practical quantitation limit is elevated due to interferences present in the sample.



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

													(4)											
				1	1		ı				1	Analytical	Results <sup>(1)</sup> (m	icrograms pe	er kilogram)	1			ı	1	1			
Sample ID	Date Sampled	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-01-SS1			<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	<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	<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	<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	<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>	<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	<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	<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	<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	<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	<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	<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	<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	<71
NS-06-SS2	05/18/17	0-0.5	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<71
MTCA Cleanup Level for	or Soil		158.73 <sup>(3)</sup>	909 <sup>(3)</sup>	555 <sup>(3)</sup>	NE	<b>222</b> <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>	<b>4,166</b> <sup>(3)</sup>	NE	2,941 <sup>(3)</sup>	NE	400,000(2)	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>Result flagged as estimated.

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

1 of 1

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

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

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

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



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

			Analytical Results <sup>(1)</sup> (micrograms per kilogram)																					
Sample ID	Date Sampled	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			<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	<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	<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	<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	<14	<14	<28	<14	<6.8	420	<14	<14	<14	<14	<14	<14	<14	<14	<68
NS-COMP-06	05/18/17	0-0.5	<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	<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	<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	<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	<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	<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 f	for Soil		158.73 <sup>(4)</sup>	909 <sup>(4)</sup>	555 <sup>(4)</sup>	NE	<b>222</b> <sup>(4)</sup>	58.8 <sup>(4)</sup>	109.89 <sup>(4)</sup>	NE	NE	<b>2,857</b> <sup>(4)</sup>	2,941 <sup>(4)</sup>	NE	<b>62.5</b> <sup>(4)</sup>	<b>24,000</b> <sup>(3)</sup>	<b>4,166</b> <sup>(4)</sup>	NE	<b>2,941</b> <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.

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

bgs = below ground surface

BHC = hexachlorocyclohexane

CLARC = Cleanup Levels and Risk Calculations

 ${\sf DDD = dichlorodiphenyldichloroethane}$ 

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

NE = not established

WAC = Washington Administrative Code

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 $<sup>\</sup>ensuremath{^{(1)}}\textsc{Samples}$  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 <a href="https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx</a>.

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



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

				Analytical Results <sup>(1)</sup> (micrograms per kilogram)										
Sample ID	Sampled By	Date Sampled	<b>Depth</b> (feet bgs)	Dalapon	Dicamba	МСРР	МСРА	Dichlorprop	2,4-D	Pentachlorophenol	2,4,5-TP (Silvex)	2,4,5-T	2,4-DB	Dinoseb
NS-COMP-01				<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	SoundEarth	05/18/17	0-0.5	<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	<b>&lt;</b> 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> 800,0					800,000	26,667	3,333	NE	266,667	833	213,333	266,667	213,333	26,667
MTCA Cleanup Leve		•	·	<b>2,400,000</b> <sup>(3)</sup>	<b>2,400,000</b> <sup>(3)</sup>	<b>80,000</b> <sup>(3)</sup>	<b>10,000</b> <sup>(3)</sup>	NE	800,000 <sup>(3)</sup>	<b>2,500</b> <sup>(4)</sup>	640,000 <sup>(3)</sup>	800,000 <sup>(3)</sup>	640,000 <sup>(3)</sup>	<b>80,000</b> <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.

< = 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

MCPP = mecoprop or methylchlorophenoxypropionic acid

MTCA = Washington State Model Toxics Control Act

NE = not established

SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Administrative Code

<sup>&</sup>lt;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>&</sup>lt;sup>(3)</sup>MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non cancer, Direct Contact, CLARC Website

<sup>&</sup>lt;a href="https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx</a>.

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



### Table 4A

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

	Date	Donath			Analy	tical Results <sup>(1)</sup> (m	illigrams per kilo	ogram)		
Sample ID	Sampled	Depth (feet bgs)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
NS-COMP-01			<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		0–0.5	<14	86	0.91	44	210	<0.34	<14	<1.4
NS-COMP-06	05/18/17		0-0.5	<14	87	<0.72	41	45	<0.36	<14
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 Leve	el <sup>(2)</sup>		6.7	5333	0.67	667	83	0.67	133	133
MTCA Cleanup Lev	el for Soil		<b>20</b> <sup>(3)</sup>	16,000 <sup>(4)</sup>	<b>2</b> <sup>(3)</sup>	2,000 <sup>(3)</sup>	<b>250</b> <sup>(3)</sup>	<b>2</b> <sup>(3)</sup>	400 <sup>(4)</sup>	<b>400</b> <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.

< = 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

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

<sup>&</sup>lt;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 <a href="https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx</a>.



### Table 4B

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

	Data	Domath			Tot	al Metals <sup>(1)</sup> (milli	grams per kilog	ram)			TCLP <sup>(2)</sup> (milligrams per liter)			
Sample ID	Date Sampled	<b>Depth</b> (feet bgs)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Lead			
NS-02-SS1							51							
NS-02-SS2							280							
NS-02-SS3					-		100	-						
NS-03-SS1					<0.67		110	-						
NS-03-SS2					1.2		72	-						
NS-03-SS3		0-0.5			<0.82		75	-						
NS-05-SS1			0-0.5			0.76		210	-					
NS-05-SS2	05/18/17			0-0.5	0-0.5			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 Lev	Cleanup Level for Soil 20 <sup>(3)</sup> 16,000 <sup>(4)</sup> 2 <sup>(3)</sup>					<b>2,000</b> <sup>(3)</sup>	<b>250</b> <sup>(3)</sup>	<b>2</b> <sup>(3)</sup>	400 <sup>(4)</sup>	<b>400</b> <sup>(4)</sup>	<b>5</b> <sup>(5)</sup>			

### NOTES:

Red denotes concentration exceeds MTCA cleanup level for soil.

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

< = 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

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

 $<sup>\</sup>ensuremath{^{(2)}}\textsc{Samples}$  analyzed by EPA Method 6010C and 1311.

<sup>&</sup>lt;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 <a href="https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx</a>.

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

# ATTACHMENT A LABORATORY REPORT

OnSite Environmental, Inc. #1705-255



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** 

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.



Project: 1267-004

### **NWTPH-Dx**

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-01					
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
Client ID:	NS-COMP-02					
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				
Client ID:	NS-COMP-03					
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				
011	NO 0011D 01					
Client ID:	NS-COMP-04					
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				
Oli and IDa	NO OCHE OF					
Client ID:	NS-COMP-05					
Laboratory ID:	05-255-13,14,15 Comp.		NA/TOLL D	5.04.47	- 0.1.1 <del>-</del>	
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				
Client ID.	NC COMP OC					
Client ID:	NS-COMP-06					
Laboratory ID:	05-255-16,17,18 Comp.	00	NIM/TOUR	5.04.47	5.04.47	N.1
Diesel Range Organics	150 570	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				

Project: 1267-004

### **NWTPH-Dx**

Matrix: Soil

Amaluta	Dogult	DOL	Mathad	Date	Date	- Flores
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-07					
Laboratory ID:	05-255-19,20,21 Comp. <b>46</b>	20	NWTPH-Dx		<i>E</i> 04.47	N.I.
Diesel Range Organics Lube Oil Range Organics	46 210	38 77	NWTPH-DX	5-24-17 5-24-17	5-24-17 5-24-17	N
Surrogate:	Percent Recovery	Control Limits	INVV I P II - DX	5-24-17	3-24-17	
o-Terphenyl	28	50-150				Q
0-тегрпенуі	20	30-130				Q
Client ID:	NS-COMP-08					
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	IN
Surrogate:	Percent Recovery	Control Limits	IWWIIII DX	0 Z+ 17	0 20 17	
o-Terphenyl	76	50-150				
о тогриону.	. •	00 700				
Client ID:	NS-COMP-09					
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				
Client ID:	NS-COMP-10					
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				
Client ID:	NS-COMP-11					
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				

Project: 1267-004

### NWTPH-Dx QUALITY CONTROL

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analvzed	Flags
METHOD BLANK	Result	FQL	Metriou	riepaieu	Allalyzeu	Flags
_	MDOFOAGA					
Laboratory ID:	MB0524S1					
Diesel Range Organics	ND	25	NWTPH-Dx	5-24-17	5-24-17	
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	105	50-150				

Analyte	Res	sult	Spike	Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-27	71-01								
	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			

Project: 1267-004

### **NWTPH-Dx**

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-COMP-03			оранов	7 <b>y_</b>	90
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				
Client ID:	NS-COMP-04					
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				
Client ID:	NS-COMP-08					
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				
Client ID:	NS-COMP-09					
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		<del></del>		
o-Terphenyl	69	50-150				
Client ID:	NS-COMP-10					
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 5-30-17	X1
Surrogate:	Percent Recovery	Control Limits		0 2 1 17	0 00 17	7.1
o-Terphenyl	74	50-150				
	• •	• •				

Project: 1267-004

### NWTPH-Dx QUALITY CONTROL

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
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				

					Source	Percen	t Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Recover	ry Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	05-27	71-01								
	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 8	39 50-150			

Project: 1267-004

### **NWTPH-Dx**

Matrix: Soil

<b>3</b> 3 41 7	D 16	<b>DO</b> 1	BB . (1 1	Date	Date	
Analyte Client ID:	Result NS-01-SS1	PQL	Method	Prepared	Analyzed	Flags
	05-255-01					
Laboratory ID:	ND	38	NWTPH-Dx	5-30-17	5-31-17	
Diesel Range Organics Lube Oil Range Organics	120	36 76	NWTPH-Dx	5-30-17 5-30-17	5-31-17 5-31-17	
Surrogate:	Percent Recovery	Control Limits	INVV I F I I F DX	5-30-17	5-51-17	
o-Terphenyl	101	50-150				
о гогрнопут	101	00 100				
Client ID:	NS-01-SS2					
Laboratory ID:	05-255-02					
Diesel Range Organics	ND	32	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	160	64	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				
Client ID:	NS-01-SS3					
Laboratory ID:	05-255-03					
Diesel Range Organics	ND	47	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	310	93	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				
Client ID:	NS-07-SS1					
Laboratory ID:	05-255-19					
Diesel Range Organics	ND	36	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	220	71	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	104	50-150				
Client ID:	NS-07-SS2					
Laboratory ID:	05-255-20					
Diesel Range Organics	ND	37	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	170	74	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits	INVVIIII-DX	J-JU-17	J-J1-11	
o-Terphenyl	103	50-150				
о тегриенут	100	JU-1JU				
Client ID:	NS-07-SS3					
Laboratory ID:	05-255-21					
Diesel Range Organics	ND	45	NWTPH-Dx	5-30-17	5-31-17	U1
Lube Oil Range Organics	360	84	NWTPH-DX	5-30-17 5-30-17	5-31-17 5-31-17	ΟI
Surrogate:	Percent Recovery	Control Limits	INVV I T TI-DX	5-30-17	0-31-1 <i>1</i>	
o-Terphenyl						
	93	50-150				

Project: 1267-004

### NWTPH-Dx QUALITY CONTROL

Matrix: Soil

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

Awalista	D		0		Source	Percent	Recovery	DDD	RPD	Fla
Analyte	Res	sult	<b>Spike</b>	Level	Result	Recovery	Limits	RPD	Limit	Flags
DUPLICATE										
Laboratory ID:	05-32	25-01								
	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						89 103	50-150			

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-01					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	78	46-106				

DCB 81 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-02					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	76	46-106				
DCB	77	53-122				

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-03					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	68	46-106				

**TCMX** 68 46-106 DCB 76 53-122

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-04					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	78	46-106				
DCB	0.5	E2 122				

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-05					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	77	46-106				

DCB 82 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-06					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	64	46-106				

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DCB

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Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

0 0 11 7				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-07					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	82	46-106				

DCB 81 53-122



Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-08					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	73	46-106				

DCB 75 53-122



Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

- ·				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-09					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	75	46-106				

**TCMX** 46-106 DCB 78 53-122

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-10					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	81	46-106				
DCB	01	E2 122				

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte         Result         PQL         Method         Prepared         Analyzed           Client ID:         NS-COMP-11         Laboratory ID:         05-255-31,32,33 Comp.         Secondary         Sec	~9/··(9 (PP~)				Date	Date	
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           Heptachlor Epoxide         ND         7.0         EPA 8081B         5-24-17         5-30-17           Heptachlor Epoxide         ND         7.0         EPA 8081B         5-24-17         5-30-17           Heptachlor dane         ND         7.0         EPA 8081B         5-24-17         5-30-17           gamma-Chlordane         ND         14         EPA 8081B         5-24-17         5-30-17           quicklosulfan I         ND         14         EPA 8081B         5-24-17         5-30-17           Endosulfan I         ND         14         EPA 8081B         5-24-17         5-30-17           Endrin         ND         14         EPA 8081B         5-		Result	PQL	Method	Prepared	Analyzed	Flags
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           Heptachlor Epoxide         ND         7.0         EPA 8081B         5-24-17         5-30-17           Heptachlor Epoxide         ND         7.0         EPA 8081B         5-24-17         5-30-17           Heptachlor Geoxide         ND         7.0         EPA 8081B         5-24-17         5-30-17           Heptachlor Geoxide         ND         7.0         EPA 8081B         5-24-17         5-30-17           Heptachlor Geoxide         ND         14         EPA 8081B         5-24-17         5-30-17           Heptachlor Geoxide         ND         14         EPA 8081B         5-24-17         5-30-17           Jame Chlordane         ND         14         EPA 8081B         5-24-17         5-30-17 <th< td=""><td>):</td><td>NS-COMP-11</td><td></td><td></td><td></td><td></td><td></td></th<>	):	NS-COMP-11					
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           Heptachlor Epoxide         ND         14         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           Endosulfan I         ND         7.0         EPA 8081B         5-24-17         5-30-17           Endosulfan I         ND         14         EPA 8081B         5-24-17         5-30-17           Endos	ry ID:	5-255-31,32,33 Comp.					
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         14         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           Hodoulfan I         ND         7.0         EPA 8081B         5-24-17         5-30-17           Endsulfan I         ND         14         EPA 8081B         5-24-17         5-30-17           Endsulfan	IC	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           Endosulfan I         ND         14         EPA 8081B         5-24-17         5-30-17           Endosulfan II         ND         14         EPA 8081B         5-24-17         5-30-17           Endrin Aldehy	3HC	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Heptachlor	3	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 Endrin ND 14 EPA 8081B 5-24-17 5-30-17 Endosulfan II ND 14 EPA 8081B 5-24-17 5-30-17 Endosulfan II ND 14 EPA 8081B 5-24-17 5-30-17 Endrin Aldehyde ND 14 EPA 8081B 5-24-17 5-30-17 Endrin Aldehyde ND 14 EPA 8081B 5-24-17 5-30-17 Endrin Aldehyde ND 14 EPA 8081B 5-24-17 5-30-17 Endrin Sulfate 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	С	ND	7.0	EPA 8081B	5-24-17	5-30-17	
Heptachlor Epoxide	or	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           Endrin         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           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           Endrin Ketone         ND         <		ND	7.0	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           Endosulfan II         ND         14         EPA 8081B         5-24-17         5-30-17           Endrin Aldehyde         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           Endrin Ketone         ND         14         EPA 8081B         5-24-17         5-30-17           Toxaphene <td< td=""><td>or Epoxide</td><td>ND</td><td>7.0</td><td>EPA 8081B</td><td>5-24-17</td><td>5-30-17</td><td></td></td<>	or Epoxide	ND	7.0	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         Surrogate:       Percent Recovery       Control Limits         TCMX       80       46-106 </td <td>Chlordane</td> <td>ND</td> <td>14</td> <td>EPA 8081B</td> <td>5-24-17</td> <td>5-30-17</td> <td></td>	Chlordane	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           Endsulfan 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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106	lordane	ND	14	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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106		ND	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           Surrogate:         Percent Recovery         Control Limits         70         EPA 8081B         5-24-17         5-30-17	an I	ND	7.0	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         Surrogate:       Percent Recovery       Control Limits         TCMX       80       46-106		37	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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106		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         Surrogate:       Percent Recovery       Control Limits         TCMX       80       46-106	1	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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106	an II	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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106		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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106	dehyde	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           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106	chlor	ND	14	EPA 8081B	5-24-17	5-30-17	
Toxaphene         ND         70         EPA 8081B         5-24-17         5-30-17           Surrogate:         Percent Recovery         Control Limits           TCMX         80         46-106	an Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
Surrogate: Percent Recovery Control Limits TCMX 80 46-106	etone	ND	14	EPA 8081B	5-24-17	5-30-17	
TCMX 80 46-106	ne	ND	70	EPA 8081B	5-24-17	5-30-17	
TCMX 80 46-106	e:	Percent Recovery	Control Limits				
		80	46-106				
DCB 83 53-122		83	53-122				

Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Soil

Units: ug/Kg (ppb)

Office agritg (pps)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
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	Re	sult	Snike	Level	Source Result		rcent	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES	110	<u>ouit</u>	Орікс	LOVOI	Rooun		overy	Limito	111111	Lilling	ı iugo
Laboratory ID:	05-255-2	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			



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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				

Surrogate: Percent Recovery Control Limit
TCMX 71 46-106
DCB 73 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-01-SS2					
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	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limitation TCMX 68 46-106 DCB 69 53-122

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

.

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-02-SS1					
Laboratory ID:	05-255-04					
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	
Surrogate:	Percent Recovery	Control Limits				•

Surrogate: Percent Recovery Control Limits TCMX 71 46-106 DCB 68 53-122



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				7uy	90
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

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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				

Surrogate: Percent Recovery Control Lim
TCMX 68 46-106
DCB 65 53-122

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte		PQL		Date	Date	
	Result		Method	Prepared	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



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

omo: ag/rtg (pps/				Date	Date	
Analyte	Result	PQL	Method	Prepared	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



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

		PQL		Date	Date	
Analyte	Result		Method	Prepared	Analyzed	Flags
Client ID:	NS-03-SS2					
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	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limit
TCMX 77 46-106
DCB 94 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

		PQL		Date	Date	
Analyte	Result		Method	Prepared	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				

Surrogate: Percent Recovery Control Limit TCMX 58 46-106 DCB 58 53-122

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Amaluta	Daguit	DOL	Mathad	Date	Date	<b></b>
Analyte	Result	PQL	Method	Prepared	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	•			•

Surrogate: Percent Recovery Control Limit
TCMX 82 46-106
DCB 74 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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				<del></del>

Surrogate: Percent Recovery Control Limits
TCMX 64 46-106
DCB 61 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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				<del></del>

Surrogate: Percent Recovery Control Limits
TCMX 64 46-106
DCB 73 53-122

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte		PQL		Date	Date	
	Result		Method	Prepared	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				

Surrogate: Percent Recovery Control Limitation TCMX 69 46-106 DCB 67 53-122

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
nalyte	Result	PQL	Method	Prepared	Analyzed	Flags
ient ID:	NS-06-SS1					
aboratory ID:	05-255-16					
pha-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
amma-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
eta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
elta-BHC	ND	7.1	EPA 8081B	6-1-17	6-7-17	
eptachlor	ND	7.1	EPA 8081B	6-1-17	6-7-17	
drin	ND	7.1	EPA 8081B	6-1-17	6-7-17	
eptachlor Epoxide	ND	7.1	EPA 8081B	6-1-17	6-7-17	
amma-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
pha-Chlordane	ND	14	EPA 8081B	6-1-17	6-7-17	
4'-DDE	370	14	EPA 8081B	6-1-17	6-7-17	
ndosulfan I	ND	7.1	EPA 8081B	6-1-17	6-7-17	
eldrin	63	14	EPA 8081B	6-1-17	6-7-17	
ndrin	ND	14	EPA 8081B	6-1-17	6-7-17	
4'-DDD	160	14	EPA 8081B	6-1-17	6-7-17	
ndosulfan II	ND	14	EPA 8081B	6-1-17	6-7-17	
4'-DDT	190	14	EPA 8081B	6-1-17	6-7-17	
ndrin Aldehyde	ND	14	EPA 8081B	6-1-17	6-7-17	
ethoxychlor	ND	14	EPA 8081B	6-1-17	6-7-17	
ndosulfan Sulfate	ND	14	EPA 8081B	6-1-17	6-7-17	
ndrin Ketone	ND	14	EPA 8081B	6-1-17	6-7-17	
oxaphene	ND	71	EPA 8081B	6-1-17	6-7-17	
urrogate:	Percent Recovery	Control Limits				

TCMX 71 46-106
DCB 64 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

		PQL		Date	Date	
Analyte	Result		Method	Prepared	Analyzed	Flags
Client ID:	NS-06-SS2					
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	
Surrogate:	Percent Recovery	Control Limits				

TCMX 73 46-106
DCB 70 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

		PQL		Date	Date	
Analyte	Result		Method	Prepared	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				

Surrogate: Percent Recovery Control Limit
TCMX 53 46-106
DCB 53 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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				

Surrogate: Percent Recovery Control Lim
TCMX 64 46-106
DCB 58 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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				

Surrogate: Percent Recovery Control Limi
TCMX 59 46-106
DCB 53 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

55.13 (FF6)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-07-SS3					
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	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limits
TCMX 50 46-106
DCB 47 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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				

Surrogate: Percent Recovery Control Lin
TCMX 62 46-106
DCB 55 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

	Result	PQL		Date	Date	
Analyte			Method	Prepared	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				

Surrogate: Percent Recovery Control Limits
TCMX 70 46-106
DCB 65 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Ameliata	Danuli	DOL	Mathad	Date	Date	Flace
Analyte	Result	PQL	Method	Prepared	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	•		•	

Surrogate: Percent Recovery Control Lim.
TCMX 64 46-106
DCB 61 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

		PQL		Date	Date	
Analyte	Result		Method	Prepared	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				

Surrogate: Percent Recovery Control Limit TCMX 71 46-106 DCB 63 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL		Date	Date	
			Method	Prepared	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				

Surrogate: Percent Recovery Control Lin
TCMX 64 46-106
DCB 58 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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				

Surrogate: Percent Recovery Control Limit TCMX 58 46-106 DCB 53 53-122

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL		Date	Date	
			Method	Prepared	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				

Surrogate: Percent Recovery Control Lim.
TCMX 62 46-106
DCB 58 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-10-SS3					
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	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limit TCMX 64 46-106 DCB 58 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-11-SS1					
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	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limit
TCMX 67 46-106
DCB 65 53-122



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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



Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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				·

Surrogate: Percent Recovery Control Lim.
TCMX 76 46-106
DCB 74 53-122

Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Soil

Units: ug/Kg (ppb)

ormo: ag/rtg (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
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				

Analysia	Do	al4	Cuilco	Lovel	Source		rcent	Recovery	BBB	RPD	Flore
Analyte	Res	sult	<b>Spike</b>	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB06	01S1									
	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			

53-122

82



DCB

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL**

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
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				

Surrogate:	Percent Recovery	Control Limits
TCMX	91	46-106
DCB	86	53-122

					Source	Per	cent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB06	609S2									
	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			



Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Soil

omo. ag/rtg (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
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				

	_				Source		cent	Recovery		RPD	
Analyte	Res	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB06	609S2									
	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			



Project: 1267-004

#### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

NS-COMP-01   Laboratory ID:   05-255-01,02,03 Comp.					Date	Date	
Dalapon	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Dalapon	Client ID:	NS-COMP-01					
Dicamba   ND	Laboratory ID:	05-255-01,02,03 Comp.					
MCPP         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           Q.4-D         ND         15         EPA 8151A         5-25-17         5-26-17           Pentachlorophenol         ND         7.4         EPA 8151A         5-25-17         5-26-17           Pentachlorophenol         ND         15         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-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           MCPA	Dalapon	ND	360	EPA 8151A	5-25-17	5-26-17	
MCPA   ND   1500   EPA 8151A   5-25-17   5-26-17	Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
Dichlorprop   ND	MCPP	ND	1500	EPA 8151A	5-25-17	5-26-17	
2,4-D	MCPA	ND	1500	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-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 5-26-17 Dinoseb ND 15 EPA 8151A 5-25-17 5-26-17 Dinoseb ND 15 EPA 8151A 5-25-17 5-26-17 Dinoseb ND 15 EPA 8151A 5-25-17 5-26-17 Dinoseb ND 18-111  Client ID: NS-COMP-02 Laboratory ID: 05-255-04,05,06 Comp. Dalapon ND 13 EPA 8151A 5-25-17 5-26-17 Dicamba ND 13 EPA 8151A 5-25-17 5-26-17 MCPP ND 1300 EPA 8151A 5-25-17 5-26-17 MCPA ND 1300 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 130 EPA 8151A 5-25-17 5-26-17 Di	Dichlorprop	ND	110	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-TP (Silvex)  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  16  Client ID:  NS-COMP-02  Laboratory ID:  05-255-04,05,06 Comp.  Dalapon  ND  13  EPA 8151A  5-25-17  5-26-17  Dicamba  ND  13  EPA 8151A  5-25-17  5-26-17  MCPP  ND  1300  EPA 8151A  5-25-17  5-26-17  MCPA  ND  1300  EPA 8151A  5-25-17  5-26-17  Dichlorprop  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-TP (Silvex)  ND  13  EPA 8151A  5-25-17  5-26-17  2,4,5-TP  Dinoseb  ND  13  EPA 8151A  5-25-17  5-26-17  5-26-17  5-26-17  5-26-17  Dinoseb  ND  13  EPA 8151A  5-25-17  5-26-17  5-26-17  5-26-17  Dinoseb  ND  13  EPA 8151A  5-25-17  5-26-17  5-26-17  5-26-17  5-26-17  Dinoseb  ND  13  EPA 8151A  5-25-17  5-26-17  5-26-17  5-26-17  5-26-17  Dinoseb  ND  13  EPA 8151A  5-25-17  5-26-17  5-2	2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
ND	Pentachlorophenol	ND	7.4	EPA 8151A	5-25-17	5-26-17	
ND	2,4,5-TP (Silvex)	ND	15	EPA 8151A	5-25-17	5-26-17	
ND	2,4,5-T	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           MCPP         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-DB         ND         13         EPA 8151A         5-25-17         5-26-17           2,4-DB         ND         13         EPA 8151A         5-25-17         5-26-17           2,4-DB	2,4-DB	ND	15	EPA 8151A	5-25-17	5-26-17	
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 MCPP 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 Dichlorprop ND 100 EPA 8151A 5-25-17 5-26-17 Pentachlorophenol 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 2,4,5-T 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	Dinoseb	ND	15	EPA 8151A	5-25-17	5-26-17	
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 MCPP 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 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-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	Surrogate:	Percent Recovery	Control Limits				
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           MCPP         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-DB         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	54	18-111				
Dalapon         ND         330         EPA 8151A         5-25-17         5-26-17           Dicamba         ND         13         EPA 8151A         5-25-17         5-26-17           MCPP         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-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	Client ID:	NS-COMP-02					
Dicamba         ND         13         EPA 8151A         5-25-17         5-26-17           MCPP         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	Laboratory ID:	05-255-04,05,06 Comp.					
MCPP         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	Dalapon	ND	330	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	Dicamba	ND	13	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	MCPP	ND	1300	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	MCPA	ND	1300	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	Dichlorprop	ND	100	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	2,4-D	ND	13	EPA 8151A	5-25-17	5-26-17	
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	Pentachlorophenol	ND	6.7	EPA 8151A	5-25-17	5-26-17	
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	2,4,5-TP (Silvex)	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	2,4,5-T	ND	13	EPA 8151A	5-25-17	5-26-17	
Surrogate: Percent Recovery Control Limits	2,4-DB	ND	13	EPA 8151A	5-25-17	5-26-17	
, ,	Dinoseb	ND	13	EPA 8151A	5-25-17	5-26-17	
DCAA 63 18-111	Surrogate:	Percent Recovery	Control Limits				
	DCAA	63	18-111				

Project: 1267-004

#### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-03					
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	
MCPP	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				
Client ID:	NS-COMP-04					
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	
MCPP	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	
Dinasah		4.4	EPA 8151A	5-25-17	5-26-17	
Dinoseb	ND	14	EPA 0131A	3-23-17	5-20-17	
Surrogate:	ND Percent Recovery	Control Limits	EPAGISIA	5-25-17	5-20-17	

Project: 1267-004

#### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

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

Project: 1267-004

#### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-07					
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				
Client ID:	NS-COMP-08					
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				
	1 Crocint recovery	Control Limits				

Project: 1267-004

#### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

NS-COMP-09					Date	Date	
Dalapon   ND   380   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   15   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   150   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   1500   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   1500   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   1500   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   120   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   15   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   7.8   EPA 8151A   5-25-17   5-26-17   Dalapon   ND   16   EPA 8151A   5-25-17   5-26-17   Dalapon   Dalapon   ND   16   EPA 8151A   5-25-17   5-26-17   5-26-17   Dalapon   ND   16   EPA 8151A   5-25-17   5-26-17   5-26-17   Dalapon   Dalapon   ND   16   EPA 8151A   5-25-17   5-26-17   5-26-17   Dalapon   Dalapon   ND   16   EPA 8151A   5-25-17   5-26-17	Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Dalapon	Client ID:	NS-COMP-09					
Dicamba   ND	Laboratory ID:	05-255-25,26,27 Comp.					
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 Dichlorprop ND 15 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 15 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 15 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 16 EPA 8151A 5-25-17 5-26-17 Dicamba ND 16 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 1600 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 160 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 16 EPA 8151A 5-25-17 5-26-17 Dichlorprop Dichlorprop ND 16	Dalapon	ND	380	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   Dichlorprop   ND   15   EPA 8151A   5-25-17   5-26-17   Dichlorprop   ND   15   EPA 8151A   5-25-17   5-26-17   Dichlorprop   ND   7.8   EPA 8151A   5-25-17   5-26-17   Dichlorprop   ND   16   EPA 8151A   5-25-17   5-26-17   Dichlorprop   ND   1600   EPA 8151A   5-25-17   5-26-17   5-26-17   Dichlorprop   Dichlorprop   ND   1600   EPA 8151A   5-25-17   5-26-17   5-26-17   Dichlorprop   Dichlor	Dicamba	ND	15	EPA 8151A	5-25-17	5-26-17	
Dichlorprop   ND	MCPP	ND	1500	EPA 8151A	5-25-17	5-26-17	
2,4-D	MCPA	ND	1500	EPA 8151A	5-25-17	5-26-17	
Pentachlorophenol	Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
ND	2,4-D	ND	15	EPA 8151A	5-25-17	5-26-17	
ND	Pentachlorophenol	ND	7.8	EPA 8151A	5-25-17	5-26-17	
ND	2,4,5-TP (Silvex)	ND	16	EPA 8151A	5-25-17	5-26-17	
Dinoseb   ND	2,4,5-T	ND	16	EPA 8151A	5-25-17	5-26-17	
Surrogate: Percent Recovery 64 18-111  Client ID: NS-COMP-10 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 MCPP 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 Dichlorprop ND 120 EPA 8151A 5-25-17 5-26-17 Pentachlorophenol ND 8.2 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 2,4,5-TD ND 16 EPA 8151A 5-25-17 5-26-17 Dinoseb ND 16 EPA 8151A 5-25-17 5-26-17	2,4-DB	ND	16	EPA 8151A	5-25-17	5-26-17	
Client ID: NS-COMP-10 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 MCPP 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 Dichlorprop ND 120 EPA 8151A 5-25-17 5-26-17 Pentachlorophenol ND 16 EPA 8151A 5-25-17 5-26-17 Pentachlorophenol ND 8.2 EPA 8151A 5-25-17 5-26-17 Dichlorprop ND 16 EPA 8151A 5-25-17 5-26-17	Dinoseb	ND	16	EPA 8151A	5-25-17	5-26-17	
Client ID: NS-COMP-10 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 MCPP 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 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 2,4,5-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	Surrogate:	Percent Recovery	Control Limits				
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           MCPP         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-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				
Dalapon         ND         390         EPA 8151A         5-25-17         5-26-17           Dicamba         ND         16         EPA 8151A         5-25-17         5-26-17           MCPP         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	Client ID:	NS-COMP-10					
Dicamba         ND         16         EPA 8151A         5-25-17         5-26-17           MCPP         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	Laboratory ID:	05-255-28,29,30 Comp.					
MCPP         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	Dalapon	ND	390	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	Dicamba	ND	16	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	MCPP	ND	1600	EPA 8151A	5-25-17	5-26-17	
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	MCPA	ND	1600	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	Dichlorprop	ND	120	EPA 8151A	5-25-17	5-26-17	
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	2,4-D	ND	16	EPA 8151A	5-25-17	5-26-17	
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	Pentachlorophenol	ND	8.2	EPA 8151A	5-25-17	5-26-17	
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	2,4,5-TP (Silvex)	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	2,4,5-T	ND	16	EPA 8151A	5-25-17	5-26-17	
Surrogate: Percent Recovery Control Limits	2,4-DB	ND	16	EPA 8151A	5-25-17	5-26-17	
, ,	Dinoseb	ND	16	EPA 8151A	5-25-17	5-26-17	
DCAA 63 18-111	Surrogate:	Percent Recovery	Control Limits				
	DCAA	63	18-111				

Project: 1267-004

#### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-11					
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	
MCPP	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				

Surrogate: Percent Recovery Control Limits DCAA 61 18-111



Project: 1267-004

### CHLORINATED ACID HERBICIDES EPA 8151A QUALITY CONTROL

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
METHOD BLANK						
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	
MCPP	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

					Source	Pe	rcent	Recovery		RPD	
Analyte	Re	sult	Spike	Level	Result	Rec	overy	Limits	RPD	Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-255-2	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			

Project: 1267-004

## TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	05-255-01,02,03 Comp. <b>NS-COMP-01</b>					
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: Client ID:	05-255-04,05,06 Comp. <b>NS-COMP-02</b>					
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	

Project: 1267-004

## TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	<b>EPA Method</b>	Prepared	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: Client ID:	05-255-10,11,12 Comp. <b>NS-COMP-04</b>				
rsenic	ND	15	6010C	5-25-17	5-25-17
arium	81	3.7	6010C	5-25-17	5-25-17
admium	ND	0.73	6010C	5-25-17	5-25-17
romium	58	0.73	6010C	5-25-17	5-25-17
ad	72	7.3	6010C	5-25-17	5-25-17
ercury	ND	0.37	7471B	5-26-17	5-26-17
elenium	ND	15	6010C	5-25-17	5-25-17
lver	ND	1.5	6010C	5-25-17	5-25-17

Project: 1267-004

## TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				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: Client ID:	05-255-16,17,18 Comp. <b>NS-COMP-06</b>				
Arsenic	ND	14	6010C	5-25-17	5-25-17
arium	87	3.6	6010C	5-25-17	5-25-17
admium	ND	0.72	6010C	5-25-17	5-25-17
romium	41	0.72	6010C	5-25-17	5-25-17
ad	45	7.2	6010C	5-25-17	5-25-17
ercury	ND	0.36	7471B	5-26-17	5-26-17
elenium	ND	14	6010C	5-25-17	5-25-17
lver	ND	1.4	6010C	5-25-17	5-25-17

Project: 1267-004

## TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	<b>EPA Method</b>	Prepared	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: Client ID:	05-255-22,23,24 Comp. <b>NS-COMP-08</b>				
rsenic	ND	16	6010C	5-25-17	5-25-17
arium	100	4.1	6010C	5-25-17	5-25-17
admium	ND	0.82	6010C	5-25-17	5-25-17
romium	47	0.82	6010C	5-25-17	5-25-17
ıd	110	8.2	6010C	5-25-17	5-25-17
rcury	ND	0.41	7471B	5-26-17	5-26-17
elenium	ND	16	6010C	5-25-17	5-25-17
ver	ND	1.6	6010C	5-25-17	5-25-17

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## TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	<b>EPA Method</b>	Prepared	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: Client ID:	05-255-28,29,30 Comp. <b>NS-COMP-10</b>				
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
_ead	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

Project: 1267-004

## TOTAL METALS EPA 6010C/7471B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	<b>EPA Method</b>	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-31,32,33 Comp. 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	

Project: 1267-004

# 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

Project: 1267-004

# 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 **ND** 0.25

Project: 1267-004

# 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	

Project: 1267-004

# 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 Duplicate
Result Result RPD PQL Flags

Mercury ND ND NA 0.25

Project: 1267-004

# 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	95.1	95	92.3	92	3	
Barium	100	215	101	219	106	2	
Cadmium	50.0	46.4	93	46.3	93	0	
Chromium	100	114	91	115	92	1	
Lead	250	258	87	278	95	8	
Selenium	100	92.6	93	92.3	92	0	
Silver	25.0	22.2	89	22.0	88	1	

Project: 1267-004

# 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

	Spike		Percent		Percent		
Analyte	Level	MS	Recovery	MSD	Recovery	RPD	Flags
Mercury	0.500	0.531	106	0.530	106	0	
ivi <del>c</del> i cui y	0.500	0.551	100	0.550	100	U	

Project: 1267-004

## TOTAL METALS EPA 6010C

Matrix: Soil

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

Project: 1267-004

#### TOTAL LEAD EPA 6010C

Matrix: Soil

	5 5 WT /			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
	05.055.40					
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	

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	ND	0.50
Lead	6010C	ND	5.0

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	ND	ND	NA	0.50	
Lead	ND	ND	NA	5.0	

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	44.7	89	44.2	88	1	
Lead	250	210	84	210	84	0	

Project: 1267-004

#### TOTAL LEAD EPA 6010C

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	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	·

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 **ND** 5.0

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

Sample Duplicate
Analyte Result Result RPD PQL Flags

Lead ND ND NA 5.0

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	240	96	240	96	0	

## % 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

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

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-napthalene) are present in the sample.
- N Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 Hydrocarbons in diesel range are impacting lube oil range results.
- O Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_\_.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 The practical quantitation limit is elevated due to interferences present in the sample.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

7 -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference



# OnSite Environmental Inc.

**Chain of Custody** 

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	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com		rnaround Require in working day			L	abo	rate	ory	Nun	nbe	er:					0	5	-2	25	5				
Project Name:	LEarth / SCL be 1267-004		ays [ndard (7 Days)] Hanalysis 5 Day (other)	1 Day 3 Days ys)  Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (  Acid / SG Clean-up)		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 RCRA 8	Total MTCA Metals LEAD ON IV	TCLP Metals	HEM (oil and grease) 1664A	Oc Pesticides	Total Cd + Db	
i N		\$18/17	1	,	2				7	,				_		n	J	n	1				0		X
2 N	5-01-552	1	0850	1					1	-	0150	PE	1,3			V		M	M				0		X
3 N	5-01-553		0900						也	)						U		V	(1)				0		X
4 N	5-02-551		0915						a							0		Á	0	9			0		X
5 N	5-02-552		0930													X		X	M	0			0		X
6 N	5-02-553		0945						V							y		y	0	0			0		X
7 N.	5-03-551		0955						h							n		X	1				0	•	X
8 N	5-03-552		1000						M							X		M	M				6	0	X
_	5-03-553	0	1010	6	4				U						l	y	-	U	U				0	0	X
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## **Chain of Custody**

Page 2 of 4

	Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052		naround Requ n working day			La	abo	rato	ory	Nur	nbe	er:	1-					0 5	5 -	2	5	5				
Project No	und Easth /SCL Number: 67-004		- Duy	☐ 1 Day ☐ 3 Days ys)	er of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	H-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 RURA &	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	- Dectiones	Cd+P		sture
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWT	NWT	NWTPH-Gx	NWT	Volatil	Halog	EDB E	Semiv (with I	PAHs	PCBs	Organ	Organ	Chlori	Total F	Total	TCLP	HEM	0	T		% Moisture
10	NS-04-551	Slajir	1020	Soll	2				1							5		()	17				0			X
/1	NS-04-552		1030		1				XI							X		X	X				0			X
12	NS-04-553		1045						U							y		U	0				0			X
13	NS-05-551		1065						1							7		N	1				0			X
14	NS-05-SSZ		1105						X							X			X				0	•		X
15	NS-05-553		1115						9						1	y		0	U				0	•		X
16	NS-06-SS(		1125						0							~		$\wedge$	$\Lambda$				0			V
17	NS-06-552		1135						X						1	M		M	M				0			X
18	NS-06-553	6	1145	1	J				0						6	0		0	O				0			X
					-																		0			
	Signature	Co	ompany				Date			Time			Comi	ments	/Spe	cial I	nstru	ction	S			*				110
Relinq	Mary Comments		SE				5/1	9/1	7	10:		_	Se	ef	ro	-[	,									
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# OnSite Environmental Inc.

## **Chain of Custody**

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Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052		naround Requ n working day		-	La	boı	rato	ry Nu	ımb	er:				05	-	25	5					
Phone: (425) 883-3881 * www.onsite-env.com  Company:  SoundEarth / SCL  Project Number:  1267-004  Project Name:  North Substata  Project Manager:  Rob Roberts / Shannan Strews  Sampled by:  Logun Schwmacht	Same 2 Day Stance (TPH	dard (7 Days) analysis 5 Day (other)		Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX		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	Total RCRA Metals 6 C. D. C.	8	TCLP Metals	HEM (oil and grease) 1664A	JC- Pest rides	Total lead only	0
Sample Identification  19 NS - 07 - SS (	Sampled 5/18/17	Sampled	Matrix 501	2	Z	Z	Z	PE				- A	а.	0	1		P	T	I	0		X,
20 NS-07-55Z	1	1200	1	1		Ħ		(4)	DHC	250										0		X
21 NS-07-SS3		1205												9	V	<b>)</b> (				0	0	X
22 NS-08-551		1210						1						7	1	VE	X			0		x
Z3 NS -08-55Z		1215						X						X		XIIX				0		X
24 NS-08-553		1220					(	y						0	R	70				0	0	X
25 NS-09-SSI		1230						7					X	7	1	10				0		X
26 NS-09-552		1240												XI.	$ \rangle$					0		X
27 NS-09-563	V	1250	V	V			1	7					1	0	ľ					0		x
Relinquished  Received  Received  Relinquished  Received  Relinquished	Co	APUS APUS APUS APUS	en	-/		2/1	9/1	7 12	1:41	2				cial In		ions						
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Reviewed/Date		Reviewed/Date	е								Chror	natog	jrams	with	final r	eport	Ele	ectronic	Data D	eliverable	s (EDDs)	



## **Chain of Custody**

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Analytical Laboratory Testing Services  14648 NE 95th Street • Redmond, WA 98052		naround Req n working da			La	boı	rato	ry	Nun	nbe	er:				0	5 -	2	5 !	5					
Phone: (425) 883-3881 · www.onsite-env.com  Company: SoundEath SU  Project Number: 1267 - 004  Project Name: North Substatm  Project Manager: Rub Ruberts / Shama String  Sampled by: Lozan Schumalb		, -	1 Day 3 Days	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX		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)	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals RCRA 8		TCLP Metals	HEM (oil and grease) 1664A	- Pesticioes			% Moisture
Lab ID Sample Identification	Sampled	Sampled	Matrix	Nun	N N	NN N	N N	N N	Vola	Halo	EDB	Sen (with	PAH	Ora	Orga	Chlc	Tota	Tota	TCL	HEN	5		_	
28 NS-10-551	5/18/17	1300	Sort	2	Ш									f			$\Lambda$				0			X
29 NS-10-552	1	1305						XI						M		M	M				0		}	X
30 NS-10-553		1310						1						6		U	U				0		1	X
31 NS-11-551		1320					1	4						1	)	n	1				0		X	
32 NS-11-552		1325						M						X		M	M				0		,	1
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# 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	NWTPH-Dx	C. Jensen
Organics, Lube Oil Organics		
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	OC	Herbicides	Metals
			-Dx	Pesticides		
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

		r	ľ			
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	Matrix Spikes/Matrix Spike Duplicates
Times	(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	Matrix Spikes/Matrix Spike Duplicates
Times	(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
1000		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
7.1		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 NS-03-SS2	05-255-08	Endrin	16U	mg/kg	R, 13
NS-03-SS2 NS-03-SS2	05-255-08	4,4'-DDD	16U	mg/kg	R, 13
NS-03-SS2 NS-03-SS2	05-255-08	Endosulfan II	16U	mg/kg	R, 13
NS-03-SS2 NS-03-SS2	05-255-08 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 RE	05-255-08 RE	Toxaphene	79U	mg/kg	R, 13
NS-03-SS2 RE	05-255-08 RE	Alpha-bhc 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 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		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	16U 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 mg/kg	UJ, 13 UJ, 13
NS-03-SS2 RE	05-255-08 RE	Endrin Aldehyde	16U	mg/kg	
NS-03-SS2 RE	05-255-08 RE	Methoxychlor	16U	mg/kg	UJ, 13 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
IS-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:	NIX	M	4 -	Dx											S	DG:	10	5-	727		
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Project: 1267-004

#### **NWTPH-Dx**

Matrix: Soil

Analysis				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-01-SS1					
Laboratory ID:	05-255-01					
Diesel Range Organics <u>Lube Oil Range Organics</u>	ND 100	38	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	120 Percent Recovery	76	NWTPH-Dx	5-30-17	5-31-17	
o-Terphenyl	101	Control Limits 50-150				
0-Terprierry	101	50-150				
Client ID:	NS-01-SS2					
Laboratory ID:	05-255-02					
Diesel Range Organics	ND	32	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	160	64	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				
Client ID:	NS-01-SS3					
Laboratory ID:	05-255-03					
Diesel Range Organics	ND	47	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	310	93	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				
Client ID:	NS-07-SS1					
Laboratory ID:	05-255-19					
Diesel Range Organics	ND	36	NWTPH-Dx	5-30-17	E 01 17	
Lube Oil Range Organics	220	71	NWTPH-Dx	5-30-17	5-31-17 5-31-17	
Surrogate:	Percent Recovery	Control Limits	IVV II II-DX	3-30-17	5-31-17	
o-Terphenyl	104	50-150				
,		00.00				
Client ID:	NS-07-SS2					
Laboratory ID:	05-255-20					
Diesel Range Organics	ND	37	NWTPH-Dx	5-30-17	5-31-17	
Lube Oil Range Organics	170	74	NWTPH-Dx	5-30-17	5-31-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	103	50-150				
Client ID:	NC 07 000					
Laboratory ID:	NS-07-SS3					
Diesel Range Organics	05-255-21 <b>ND</b>	45	NACTOLLO			- Ax
Lube Oil Range Organics	360	45 84	NWTPH-Dx	5-30-17	5-31-17	U1 / PU
Surrogate:	Percent Recovery	Control Limits	NWTPH-Dx	5-30-17	5-31-17	21011
o-Terphenyl	93	50-150				LIEU
	55	30-730				ille

#### **NWTPH-Dx**

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-COMP-03		motriou	Поригси	Anaryzeu	Nay Oliv
Laboratory ID:	05-255-07,08,09 Comp.	+				oler por
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 Silua
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	83	50-150				
Client ID:	NS-COMP-04					
Laboratory ID:	05-255-10,11,12 Comp.					
Diesel Range Organics	ND	37	NWTPH-Dx	5-24-17	5-30-17	X1 Cula
Lube Oil	170	74	NWTPH-Dx	5-24-17	5-30-17	X1 9 60°
Surrogate:	Percent Recovery	Control Limits	1110			
o-Terphenyl	78	50-150				
Client ID:	NS-COMP-08					
Laboratory ID:	05-255-22,23,24 Comp.					
Diesel Range Organics	ND	41	NWTPH-Dx	5-24-17	5-30-17	X1 Solute
Lube Oil	220	82	NWTPH-Dx	5-24-17	5-30-17	X1
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	79	50-150				
Client ID:	NS-COMP-09					
Laboratory ID:	05-255-25,26,27 Comp.					
Diesel Range Organics	ND	41	NWTPH-Dx	5-24-17	5-30-17	X1 Shu
Lube Oil	190	82	NWTPH-Dx	5-24-17	5-30-17	X1 7
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	69	50-150				
Client ID:	NS-COMP-10					Anti
Laboratory ID:	05-255-28,29,30 Comp.					OLOU;
Diesel Range Organics	ND	57	NWTPH-Dx	5-24-17	5-30-17	U1,X1 PQV
Lube Oil	260	86	NWTPH-Dx	5-24-17	5-30-17	X1 AVA
Surrogate:	Percent Recovery	Control Limits				<del>i)</del>
o-Terphenyl	74	50-150				

#### **NWTPH-Dx**

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-COMP-01					
Laboratory ID:	05-255-01,02,03 Comp.					
Diesel Range Organics	41 ) 131	14 39	NWTPH-Dx	5-24-17	5-24-17	N -
Lube Oil Range Organics	170 7 13.	14 78	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	49	50-150				Q
						-
Client ID:	NS-COMP-02					
Laboratory ID:	05-255-04,05,06 Comp.					
Diesel Range Organics	43 1 / Y	36	NWTPH-Dx	F 04 47	F 04 47	
Lube Oil Range Organics	320	71		5-24-17	5-24-17	N
Surrogate:	Percent Recovery	Control Limits	NWTPH-Dx	5-24-17	5-24-17	
o-Terphenyl	80	50-150				
o respirently	00	30-130				
Client ID:	NS-COMP-03					
Laboratory ID:	05-255-07,08,09 Comp.					
Diesel Range Organics	240 7 19	. 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				
Client ID:	NS-COMP-04					
Laboratory ID:	05-255-10,11,12 Comp.					
Diesel Range Organics	180 1 14	37	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	1100 y 14	74	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	82	50-150				
Client ID:	NO COMP OF					
Laboratory ID:	<b>NS-COMP-05</b> 05-255-13,14,15 Comp.					
Diesel Range Organics	61 1 14	0.4	ABA/TOLL D	504.47		
Lube Oil Range Organics	400 1 14	34	NWTPH-Dx	5-24-17	5-24-17	N
Surrogate:	Percent Recovery	68	NWTPH-Dx	5-24-17	5-24-17	
o-Terphenyl	60	Control Limits 50-150				
o respirenyi	60	50-150				
Client ID:						
Client ID:	NS-COMP-06					
Laboratory ID:	05-255-16,17,18 Comp.	,				
Diesel Range Organics	150	36	NWTPH-Dx	5-24-17	5-24-17	Ν
Lube Oil Range Organics		72	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	51	50-150				

#### **NWTPH-Dx**

Matrix: Soil

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-COMP-07		1			
Laboratory ID:	05-255-19,20,21 Comp.					
Diesel Range Organics	46 1 13		NWTPH-Dx	5-24-17	5-24-17	N
Lube Oil Range Organics	210 / 12	14 77	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits		*****		
o-Terphenyl	28	50-150				Q
Client ID:	NO COMP OS					
	NS-COMP-08					
Laboratory ID:	05-255-22,23,24 Comp.		AMATOLLO	50447	E 05 17	
Diesel Range Organics Lube Oil Range Organics	160 9 14 790 1 14	41 82	NWTPH-Dx NWTPH-Dx	5-24-17	5-25-17	N
Surrogate:	Percent Recovery	Control Limits	NW IPH-DX	5-24-17	5-25-17	
o-Terphenyl	76	50-150				
о-тегрпенуі	76	30-130				
Client ID:	NS-COMP-09					
Laboratory ID:	05-255-25,26,27 Comp.					
Diesel Range Organics	140 () 14	41	NWTPH-Dx	5-24-17	5-25-17	N
Lube Oil Range Organics	790 7 14	82	NWTPH-Dx	5-24-17	5-25-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				
Client ID:	NS-COMP-10					
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 1 14	86	NWTPH-Dx	5-24-17	5-24-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	63	50-150				
Oliova ID-	NO 00MB 44					
Client ID:	NS-COMP-11					
Laboratory ID:	05-255-31,32,33 Comp.		10470415			
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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Method: OVAMOCh Date Reviewed: Sample Collection Dates: 5.1 The following data validation areas were reviewed: Sample 10 11 12 13 Identification Validation Criteria Sample results Holding Times Completion Method Blanks LCS 3 BS (BS)
duplicate RPD MS/MSD: 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:

VALIDATION WORKSHEET

### VALIDATION WORKSHEET

Method: UV	Mu	OCU	un	WY	122	n-	800	nB								SDG:	17/	5.	75	5
Date Reviewe	d;	0.4	12.1	1	1.		· · · · ·	- 1								Reviewer: C Jensen				
Sample Collec	ction D	ates:_	3	18:1	7	_									,	Keviev	vei. C	Jens	en	
The following	data va	lidatio		as wei	e revie															
Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Validation Criteria Sample results	TONS COMPOR	NS 8005-80	2 NS COURP !!																	
Holding Times	1		->>				_								_	-				
Completion	17	· A																		
Method Blanks	A	A	1	A																
LCS	A	property of the same	)																_	
duplicate RPD																-				
MS/MSD: -21, 12, 24 Note:X = Criteria Comments:	A																			
Note:X = Criteria	were e	valuate	d and	not me	et. A =	Criteria	were	evaluat	ed and	met N	- Dote	11100 =	at area!	Inlain C						
Comments:	15/1	110	20	. L	)	Cittoria	1 WCIC	Cvaruai	eu anu	met. N	- Data	was n	ot avai	lable fo	or revie	w. NA	= Not	applica	ble.	
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#### **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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	NDND	76	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	71	46-106				
DCB	73	53-122				

Project: 1267-004

#### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-01-SS2					
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 ND	64	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				

Surrogate: Percent Recovery Control Limits
TCMX 68 46-106
DCB 69 53-122

#### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date	-
Client ID:	NS-01-SS3		Metriod	Fiepaieu	Analyzed	Flags
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		
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	- A 0001D	0-1-17	6-1-17	
TCMX	54	46-106				
DCB	55	53-122				

Project: 1267-004

#### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date	Date	-
Client ID:	NS-02-SS1	FQL	wiethod	Prepared	Analyzed	Flags
Laboratory ID:	05-255-04					
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	
Surrogate:	Percent Recovery	Control Limits			3 1 17	
TCMX	71	46-106				
DCB	68	53-122				

#### **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-02-SS2					9-
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		<u> </u>	0111	
TCMX	67	46-106				
DCB	60	F2 100				

DCB 60 53-122

#### **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-02-SS3			Tiopaica	Analyzeu	riags
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 ND	71	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	68	46-106				
DCR	e E	FO 100				

DCB 65 53-122

Project: 1267-004

#### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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				

Project: 1267-004

## **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Amaluda				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-03-SS2					
Laboratory ID:	05-255-08					
alpha-BHC	ND ()	3 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			1	
TCMX		46-106				
DCB		53-122				

53-122

Project: 1267-004

## ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Ameliates				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-03-SS2					
Laboratory ID:	05-255-08					
alpha-BHC	ND UT,	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 1	, 7.9	EPA 8081B	6-9-17	6-9-17	
Dieldrin	420 J. 13	7 16	EPA 8081B	6-9-17	6-9-17	
Endrin	ND TIZ	16	EPA 8081B	6-9-17	6-9-17	
4,4'-DDD	ND 1	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 - 47	79	EPA 8081B	6-9-17	6-9-17	
Surrogate:	Percent Recovery	Control Limits				
TCMX	77	46-106				
DCB	94	53-122				

## ORGANOCHLORINE **PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-03-SS3					1.090
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				

Project: 1267-004

# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

			Date	Date	
	PQL	Method	Prepared	Analyzed	Flags
NS-04-SS1					
05-255-10					
ND	7.1	EPA 8081B	6-1-17	6-7-17	
ND	7.1	EPA 8081B			
ND	7.1	EPA 8081B			
ND	7.1				
ND	7.1	EPA 8081B			
ND	7.1	EPA 8081B			
ND	7.1	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	7.1	EPA 8081B			
76	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14				
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND ND	71				
Percent Recovery	Control Limits			57.17	
58	46-106				
58	53-122				
	ND N	NS-04-SS1 05-255-10  ND 7.1 ND 14 ND 17 Percent Recovery Control Limits 58	NS-04-SS1 05-255-10  ND 7.1 EPA 8081B ND 14 EPA 8081B ND 14 EPA 8081B ND 14 EPA 8081B ND 7.1 EPA 8081B ND 14 EPA 8081B ND 7.1 EPA 8081B ND 14 EPA 8081B ND 15 EPA 8081B ND 16 EPA 8081B ND 71 EPA 8081B ND 71 EPA 8081B	NS-04-SS1	NS-04-SS1

## **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-04-SS2					90
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 ND	75	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits			0017	
TCMX	65	46-106				
DCB	59	53-122				

59 53-122

## **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-04-SS3					- Jugo
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		0 1 17	0-0-17	
TCMX	82	46-106				
DCB	74	53-122				

# **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-05-SS1					9-
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

## **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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		0-1-17	0-0-17	
TCMX	64	46-106				
DCB	73	52-122				

DCB 73 53-122

## **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

Amelida				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-05-SS3					90
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		
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		6-8-17	
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	L1-74 000 1B	6-1-17	6-8-17	
TCMX	69	46-106				
DCB	67	F2 122				

67 53-122

Project: 1267-004

# **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Elogo
Client ID:	NS-06-SS1			· repureu	Analyzeu	Flags
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	
Surrogate:	Percent Recovery	Control Limits	2.7.00015	0-1-17	0-7-17	
TCMX	71	46-106				
DCB	0.1	50 100				

DCB 64 53-122

Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Amalata	_			Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-06-SS2					
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 ND	68	EPA 8081B	6-1-17	6-1-17	
Surrogate:	Percent Recovery	Control Limits		<u> </u>	0117	
TCMX	73	46-106				
DCB	70	53-122				

Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Ameliate				Date	Date	
Analyte	Result	PQL	Method	Prepared	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	NDND	75	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits			0017	
TCMX	53	46-106				
DCB	53	53-122				

## **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Elago
Client ID:	NS-07-SS1			ricpared	Anaryzeu	Flags
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-Chiordane	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		0-1-17	0-7-17	
TCMX	64	46-106				
DCB	50	70 100				

DCB 58 53-122

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

A I. Y.				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-07-SS2					3-
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			0,11	
TCMX	59	46-106				
DCB	53	53-122				

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

			Date	Date	
	PQL	Method	Prepared	Analyzed	Flags
NS-07-SS3					
05-255-21					
ND	8.4	EPA 8081B	6-1-17	6-7-17	
ND	8.4	EPA 8081B			
ND	8.4	EPA 8081B			
ND	8.4	EPA 8081B			
ND	8.4				
ND	8.4				
ND	8.4	EPA 8081B			
ND	17				
ND	17	EPA 8081B			
ND	17	EPA 8081B	6-1-17		
ND	8.4	EPA 8081B	6-1-17		
18	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	17	EPA 8081B	6-1-17		
ND	84	EPA 8081B			
Percent Recovery	Control Limits				
50	46-106				
47	53-122				
	ND N	NS-07-SS3         05-255-21       8.4         ND       8.4         ND       8.4         ND       8.4         ND       8.4         ND       8.4         ND       17         ND       15         ND       16         ND       17         ND       16         ND       17<	NS-07-SS3 05-255-21  ND	NS-07-SS3   O5-255-21   ND	Result         PQL         Method         Prepared         Analyzed           NS-07-SS3         05-255-21         8.4         EPA 8081B         6-1-17         6-7-17           ND         17         EPA 8081B         6-1-17         6-7-17 </td

Project: 1267-004

# **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Amalaka				Date	Date	
Analyte	Result	PQL	Method	Prepared	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		0 1 17	0-0-17	
TCMX	62	46-106				
DCB	55	53-122				

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

-			Date	Date	
	PQL	Method	Prepared	Analyzed	Flags
NS-08-SS2					
05-255-23					
ND	6.8	EPA 8081B	6-1-17	6-7-17	
ND	6.8	EPA 8081B			
ND	6.8	EPA 8081B			
ND	6.8				
ND	6.8	EPA 8081B			
ND	6.8	EPA 8081B			
ND	6.8	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	6.8	EPA 8081B	6-1-17		
150	14	EPA 8081B	6-1-17		
ND	14	EPA 8081B	6-1-17		
ND	14	EPA 8081B	6-1-17		
ND	14	EPA 8081B			
ND	14	EPA 8081B			
ND	14	EPA 8081B	6-1-17		
ND	14	EPA 8081B	6-1-17		
ND	14	EPA 8081B			
ND	14	EPA 8081B	6-1-17		
ND	68	EPA 8081B	6-1-17		
Percent Recovery	Control Limits				
70	46-106				
65	53-122				
	ND N	NS-08-SS2 05-255-23  ND 6.8 ND 14 ND 68  Percent Recovery Control Limits 70 Control Limits	NS-08-SS2 05-255-23  ND 6.8 EPA 8081B ND 14 EPA 8081B ND 68 EPA 8081B	Result         PQL         Method         Prepared           NS-08-SS2         05-255-23         05-255-23           ND         6.8         EPA 8081B         6-1-17           ND         14         EPA	Result         PQL         Method         Prepared         Analyzed           NS-08-SS2         05-255-23         05-255-23           ND         6.8         EPA 8081B         6-1-17         6-7-17           ND         14         EPA 8081B         6-1-17         6-7-17           ND         14

Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Amalada	_			Date	Date	
Analyte	Result	PQL	Method	Prepared	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			0 0 17	
TCMX	57	46-106				
DCB	<i>55</i>	53-122				

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-09-SS1	-				- 190
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	_: /\ CCC   D	0-1-17	0-0-17	
TCMX	64	46-106				

46-106 DCB 61 53-122

Project: 1267-004

## ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Analyte	Result	PQL	Method	Date	Date	
Client ID:	NS-09-SS2	- ruc	Wethod	Prepared	Analyzed	Flags
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		J-1-17	0-0-17	
TCMX	71	46-106				
DCB	63	53-122				

Project: 1267-004

## ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Analyte	Result	PQL	Method	Date	Date	
Client ID:	NS-09-SS3	rac	wethod	Prepared	Analyzed	Flags
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 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		
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		J-1-17	6-8-17	
TCMX	64	46-106				
DCB	58	53-122				

Project: 1267-004

### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Analida				Date	Date	
Analyte	Result	PQL	Method	Prepared	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 ND	100	EPA 8081B	6-1-17	6-8-17	
Surrogate:	Percent Recovery	Control Limits			3017	
TCMX	58	46-106				
DCB	53	53-122				

# **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

				Date	Date	
Analyte	Result	PQL	Method	Prepared	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			3017	
TCMX	62	46-106				
DCB	58	53-122				

Project: 1267-004

#### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

		PQL		Date	Date	
Analyte	Result		Method	Prepared	Analyzed	Flags
Client ID:	NS-10-SS3					
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	

Surrogate: Percent Recovery Control Limits
TCMX 64 46-106
DCB 58 53-122

Project: 1267-004

#### ORGANOCHLORINE PESTICIDES EPA 8081B

Date

Date

Matrix: Soil

Units: ug/Kg (ppb)

				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-11-SS1					
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	

Surrogate: Percent Recovery Control Limits
TCMX 67 46-106
DCB 65 53-122

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

Project: 1267-004

# **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

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				

*I CIMX* 74 53-122 DCB

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-COMP-01					
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	
Surrogate:	Percent Recovery	Control Limits				

 Surrogate:
 Percent Recovery
 Control Limit

 TCMX
 78
 46-106

 DCB
 81
 53-122

### ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)

Units: ug/Kg (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-02					
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	
Surrogate:	Percent Recovery	Control Limits				
TCMX	76	46-106				
IUIVIA	, ,					

TCMX 53-122 77 DCB

Project: 1267-004

## **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Omis: agring (ppe)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-03					
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-Chiordane	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	
	450	16	EPA 8081B	5-24-17	5-26-17	
Dieldrin	ND	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	18	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 ND	16	EPA 8081B	5-24-17	5-26-17	
Endosulfan Sulfate	ND	16	EPA 8081B	5-24-17	5-26-17	
Endrin Ketone		78	EPA 8081B	5-24-17	5-26-17	
Toxaphene	ND ND	Control Limits	LI A GOOTB	02117		
Surrogate:	Percent Recovery					
TCMX	68 76	46-106 53-122				
505	16	23-1//				

Project: 1267-004

## **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Analyte Oliont ID:	NS-COMP-04					
Client ID:	05-255-10,11,12 Comp.					
Laboratory ID:		7.3	EPA 8081B	5-24-17	5-30-17	
alpha-BHC	ND	7.3 7.3	EPA 8081B	5-24-17	5-30-17	
gamma-BHC	ND	7.3 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 ND	7.3	EPA 8081B	5-24-17	5-30-17	
Heptachlor	ND 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	15	EPA 8081B	5-24-17	5-30-17	
gamma-Chlordane	ND ND	15	EPA 8081B	5-24-17	5-30-17	
alpha-Chlordane	20	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	7.3	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	140	7.5 15	EPA 8081B	5-24-17	5-30-17	
Dieldrin	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin	ND ND	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD	ND ND	15	EPA 8081B	5-24-17	5-30-17	
Endosulfan II		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 ND	15	EPA 8081B	5-24-17	5-30-17	
Methoxychlor		15	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND	15	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	73	EPA 8081B	5-24-17	5-30-17	
Toxaphene	ND		LIAGOOID	0 L 1 17		
Surrogate:	Percent Recovery	Control Limits				
TCMX	<i>78</i>	46-106				

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

Units: ug/Kg (ppb)				Date	Date	Floor
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-05					
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	
	Percent Recovery	Control Limits				
Surrogate:	r crock ricoovery	10 /00				

TCMX 46-106 77 53-122 82 DCB

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)

Units: ug/Kg (ppb)				Date	Date	Flores
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-06					
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	
Surrogate:	Percent Recovery	Control Limits				

46-106 **TCMX** 64 53-122 67 DCB

# **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Units: ug/Kg (ppb)				Date	Date	Flags
Analyte	Result	PQL	Method	Prepared	Analyzed	1 lago
Client ID:	NS-COMP-07					
Laboratory ID:	05-255-19,20,21 Comp.				5-30-17	
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	
	ND	7.7	EPA 8081B	5-24-17		
Heptachlor	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Aldrin 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	
•	21	15	EPA 8081B	5-24-17	5-30-17	
4,4'-DDE	ND	7.7	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	180	15	EPA 8081B	5-24 <b>-</b> 17	5-30-17	
Dieldrin	ND	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 ND	77	EPA 8081B	5-24-17	5-30-17	
Toxaphene		Control Limits				
Surrogate:	Percent Recovery	46-106				
TCMX	82	53-122				
DCB	81	30-122		*		

### **ORGANOCHLORINE** PESTICIDES EPA 8081B

Matrix: Soil

Critis: agring (ppa)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-08					
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	
	ND	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	82	EPA 8081B	5-24-17	5-30-17	
Toxaphene		Control Limits				
Surrogate:	Percent Recovery	46-106				
TCMX	73	53-122				
DCB	75	33-122				

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# ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil

9 9 47				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-09					
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	
	ND	82	EPA 8081B	5-24-17	5-30-17	
Toxaphene	Percent Recovery	Control Limits				
Surrogate:	75	46-106				
TCMX	73 78	53-122				
DCB	70	00 722				

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)

Units: ug/Kg (ppb)	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Analyte Client ID:	NS-COMP-10					
	05-255-28,29,30 Comp.					
Laboratory ID:	ND	8.6	EPA 8081B	5-24-17	5-30-17	
aipha-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	17	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	8.6	EPA 8081B	5-24-17	5-30-17	
Endosulfan I	230	17	EPA 8081B	5-24-17	5-30-17	
Dieldrin	ND	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 ND	17	EPA 8081B	5-24-17	5-30-17	
Methoxychlor	ND ND	17	EPA 8081B	5-24-17	5-30-17	
Endosulfan Sulfate	ND ND	17	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND ND	86	EPA 8081B	5-24-17	5-30-17	
Toxaphene		Control Limits	2.7.00012			
Surrogate:	Percent Recovery 81	46-106				
TCMAY	81	40-100				

46-106 **TCMX** 81 81 53-122 DCB

Project: 1267-004

### **ORGANOCHLORINE PESTICIDES EPA 8081B**

Matrix: Soil

Units: ug/Kg (ppb)

Units: ug/Kg (ppb)  Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	NS-COMP-11					
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	
	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDD Endosulfan II	ND	14	EPA 8081B	5-24-17	5-30-17	
	ND	14	EPA 8081B	5-24-17	5-30-17	
4,4'-DDT Endrin Aldehyde	ND	14	EPA 8081B	5-24-17	5-30-17	
	ND	14	EPA 8081B	5-24-17	5-30-17	
Methoxychlor Endosulfan Sulfate	ND	14	EPA 8081B	5-24-17	5-30-17	
	ND	14	EPA 8081B	5-24-17	5-30-17	
Endrin Ketone	ND	70	EPA 8081B	5-24-17	5-30-17	
Toxaphene	Percent Recovery	Control Limits				
Surrogate:	80	46-106				
TCMX	22	E2 122				

53-122 83 DCB

VALIDATION WORKSHEET Method: My Date Reviewed: Reviewer: C Jensen Sample Collection Dates: The following data validation areas were reviewed: 17 18 19 20 14 15 16 8 10 11 13 Sample 2 Identification Validation Criteria Sample results Holding Times Completion Method Blanks LCS duplicate RPD Comments:

Project: 1267-004

### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

Units: ug/Kg (ppb)

Units: ug/Kg (ppb)		POL	Mathad	Date	Date Analyzed	Flags
Analyte	Result	PQL	Method	Prepared	Allaryzeu	1 lags
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	
MCPP	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	
MCPP	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	
		4.0	EDA 0454A	E 05 17	E 06 17	

Surrogate: DCAA

2,4,5-T

2,4-DB

Dinoseb

2,4,5-TP (Silvex)

ND
Percent Recovery
63

ND

ND

ND

13 Control Limits 18-111

13

13

13

5-25-17

5-25-17

5-25-17

5-25-17

EPA 8151A

EPA 8151A

**EPA 8151A** 

**EPA 8151A** 

5-26-17

5-26-17

5-26-17

5-26-17

Project: 1267-004

### CHLORINATED ACID **HERBICIDES EPA 8151A**

Matrix: Soil

2,4-D

2,4,5-T

2,4-DB

Pentachlorophenol

2,4,5-TP (Silvex)

Units: ug/Kg (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-03					
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	
MCPP	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				
20711						
Client ID:	NS-COMP-04					
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	
MCPP	ND	1400	EPA 8151A	5-25-17	5-26-17	
MCPA	ND	1400	EPA 8151A	5-25-17	5-26-17	
	ND	100	EPA 8151A	5-25-17	5-26-17	
Dichlorprop			EDA O1E1A	5 25 17	5-26-17	

14

7.0

14

14

14

5-25-17

5-25-17

5-25-17

5-25-17

5-25-17

5-25-17

EPA 8151A

EPA 8151A

EPA 8151A

EPA 8151A

EPA 8151A

**EPA 8151A** 

5-26-17

5-26-17

5-26-17

5-26-17

5-26-17

5-26-17

2,4 00		
Dinoseb	ND	14
Surrogate:	Percent Recovery	Control Limits
DCAA	59	18-111

ND

ND

ND

ND

ND

Project: 1267-004

### CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

Units: ug/Kg (ppb)

omis. ug/ng (ppu)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-05					
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	
MCPP	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				
Client ID:	NS-COMP-06					
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	
MCPP	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		-		
- a	54	10 111				

DCAA

18-111

54

### **CHLORINATED ACID HERBICIDES EPA 8151A**

Matrix: Soil

Units: ug/Kg (ppb)

Units: ug/Kg (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-07					
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				
D0/01						
Client ID:	NS-COMP-08					
Laboratory ID:	05-255-22,23,24 Comp.					
Dalapon	ND C	370	EPA 8151A	5-25-17	5-26-17	
Dicamba	ND $W$ , 9	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				
DOAN						

Project: 1267-004

## CHLORINATED ACID HERBICIDES EPA 8151A

Matrix: Soil

Units: ug/Kg (ppb)

Omio: agring (ppo)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-09					
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	
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	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				
Client ID:	NS-COMP-10					
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	
MCPP	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			1000 01 111	
- a	20	10 111				

**DCAA** 

18-111

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Project: 1267-004

### **CHLORINATED ACID HERBICIDES EPA 8151A**

Matrix: Soil

**DCAA** 

Units: ug/Kg (ppb)

Units: ug/Kg (ppb)				Date	Date	
Analyte	Result	PQL	Method	Prepared	Analyzed	Flags
Client ID:	NS-COMP-11					
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	
MCPP	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	
	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		Control Limits				
Surrogate:	Percent Recovery	CONTROL LITTLES				

18-111

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# VALIDATION WORKSHEET

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Note:X = Criteria Comments:	were ev	valuate	d and n	ot met.	A = 0	riteria	were e	valuate	d and n	net. N =	= Data	was no	ot avail	able fo	r reviev	v. NA	= Not a	nnlicah	le l	
comments.																	11011	фрисио	10.	
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Project: 1267-004

### TOTAL METALS EPA 6010C

Matrix:

Soil

Units:

Onits.	mg/kg (ppm)			<b>.</b> .		
Analysis	Doort	201		Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	05-255-07					
Client ID:	NS-03-SS1		7740			
Cadmium	ND	0.67	6010C	6-7-17	6-8-17	
Lead	110	6.7	6010C	6-7-17	6-8-17	
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	
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	
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	
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	
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	

# TOTAL LEAD EPA 6010C

Matrix:

Soil

Units:

Date Analyzed  6-9-17	Flags
6-9-17	Flags
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6-9-17	
	6-9-17

Project: 1267-004

### TOTAL LEAD EPA 6010C

Matrix:

Soil

Units:

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	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	

			,			VA	LID	ATIO	N W	ORK	SHEE	$\mathbf{T}$								
Method: Method:	An	Col	12	Car	00	12	47	18	_						S	SDG:_ Reviev	ver: C	S - Jense	25°	>
Sample Collect	tion D	ates:	4	-118	3.17															
The following of			n area	s were	revie	wed:				10	44	12	12	14	15	16	17	18	19	20
Sample Identification	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	10	17	10	19	20
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Validation Criteria	5	7	53	2	13	5	1,3	1	1	2	Corn.									
Sample results	14		*************																	
Holding Times	11					and the same of th					٠									
Completion																		-		
Method Blanks	A-					-			-		7					-				
LCS duplicate RPD	(1)										3				1					-
MS/MSD:	14			- NO. 700 A SAN			w		langer von regeneralisent		->									
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Project: 1267-004

### TOTAL METALS EPA 6010C/7471B

Matrix:

Soil

Units:

				Date	Date	1
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-01,02,03 Comp. <b>NS-COMP-01</b>					
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: Client ID:	05-255-04,05,06 Comp. <b>NS-COMP-02</b>					
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	

Project: 1267-004

### TOTAL METALS EPA 6010C/7471B

Matrix:

Soil

Units:

Offico.	mg/ng (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-07,08,09 Comp. 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: Client ID:	05-255-10,11,12 Comp. 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	

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

Matrix:

Soil

Units:

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-13,14,15 Comp. 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	<u>;</u>

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

Project: 1267-004

### TOTAL METALS EPA 6010C/7471B

Matrix:

Soil

Units:

Offics.	mg/ng (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-19,20,21 Comp. 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: Client ID:	05-255-22,23,24 Comp. <b>NS-COMP-08</b>					
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	

Project: 1267-004

### TOTAL METALS EPA 6010C/7471B

Matrix:

Soil

Units:

Office.	mg/ng (ppm)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-25,26,27 Comp. 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: Client ID:	05-255-28,29,30 Comp. <b>NS-COMP-10</b>					
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	

Project: 1267-004

### TOTAL METALS EPA 6010C/7471B

Matrix:

Soil

Units:

Offits.	mana (pp)			Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID: Client ID:	05-255-31,32,33 Comp. 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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