

**Investigation of Waste Material
in the
Bliss Corner Neighborhood
Dartmouth, Massachusetts**

Status Report No. 1

**Analytical Results for Soil Samples Collected
from Soil Borings Advanced in the Town Roads
Right-of-Ways**

June 12, 2019

Department of Environmental Protection

Southeast Regional Office
20 Riverside Drive
Lakeville, Massachusetts 02347
508-946-2700

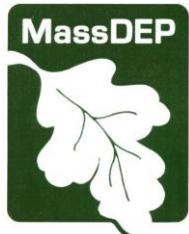


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**ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM SOIL BORINGS
ADVANCED IN TOWN ROADS RIGHT-OF-WAYS
Bliss Corner Neighborhood**

1.0 BACKGROUND

The Massachusetts Department of Environmental Protection (MassDEP) is tasked with ensuring the cleanup of oil and hazardous material releases and with protecting health, safety, public welfare and the environment from oil and/or hazardous material releases under the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (Chapter 21E). The law is implemented through regulations known as the Massachusetts Contingency Plan (310 CMR 40.0000 et seq. – the MCP).

In the summer of 2018, MassDEP and the Town of Dartmouth Board of Health conducted an inspection of the property at 85 McCabe Street in response to receiving an odor complaint from a resident in the neighborhood. Upon inspecting the property, it was determined that waste material, including buried drums containing unknown materials, were excavated at a property that has been a single-family residence since the 1940s. Of particular concern was a black substance that was observed emanating from the drums and sidewalls of the excavation. MassDEP issued a field Notice of Responsibility (NOR) to the property developer. The developer hired a Licensed Site Professional (LSP) and started conducting response actions pursuant to the MCP.

On August 30, 2018, the LSP for the 85 McCabe Street property submitted an Immediate Response Action (IRA) Plan that proposed removal of black substance emanating from the excavation, removal and proper disposal of soil stockpiled at the property and additional assessment to characterize the waste material. In addition, the IRA Plan contained archive newspaper articles that indicated that dumping activities occurred dating back to the 1930s that may have involved the Town of Dartmouth and/or City of New Bedford.

In the fall of 2018, MassDEP and the Town of Dartmouth Board of Health conducted an inspection of the neighborhood and observed waste material on three other contiguous properties being developed. These properties are located at 20 Kraseman Street, 21 Kraseman Street and 31 McCabe Street. MassDEP requested that the developer sample the soil on these properties. The sampling results indicated that the polychlorinated biphenyls (PCBs) in the soil at 20 Kraseman Street were at a concentration that could pose an Imminent Hazard. MassDEP issued an NOR to the developer and required an IRA to address the Imminent Hazard. The developer has indicated that they are not currently able to conduct the work and MassDEP has taken over some response actions.

Limited analytical testing of the soil/waste material conducted by private parties has shown elevated concentrations (above the MCP Reportable Concentrations for residential areas) of oil and/or hazardous materials, including metals (arsenic, barium, chromium, lead, vanadium, and zinc), polycyclic aromatic hydrocarbons (PAHs), and PCBs at the properties being developed. The presence of the oil or hazardous materials at certain concentrations requires response actions pursuant to the MCP. Given the limited nature of the analytical data, further investigation was deemed to be necessary to determine the extent of the contamination throughout the neighborhood and whether its presence poses a risk to humans, animals or vegetation exposed to the contaminated soil.

In January 2019, MassDEP issued Requests for Information (RFIs) to the City of New Bedford and the Town of Dartmouth requesting any information relative to sources and transportation of the waste material, and property ownership at the time of waste deposition. In the meantime, MassDEP developed a Scope of Work for a State-lead soil and groundwater investigation in the Bliss Corner neighborhood. The information collected through the advancement of soil borings and analysis of the soil samples is presented in this report.

MassDEP will continue to work with the Dartmouth Board of Health to determine the nature, source, and extent of this waste material. Additional information will be provided as it becomes available through MassDEP's website at <https://www.mass.gov/service-details/bliss-corner-neighborhood-dartmouth-ma> and by contacting MassDEP. If you have any questions about the information in this document, please contact Lori Williamson at (508) 946-2803, or via email at lori.williamson@mass.gov. This information can be provided in alternative language or format at your request.

2.0 FIELD INVESTIGATION

2.1 Advancement of Soil Borings

Between May 6 and 8, 2019, MassDEP and its contractor, Green Environmental, initiated investigation of subsurface conditions in the Bliss Corner neighborhood by advancing eighteen (18) soil borings within Town-owned right-of-ways. Soil boring locations were selected to provide adequate spatial coverage across the "preliminary study area", and included locations on Sharp Street, Kraseman Street, Wordell Street, East Wordell Street, Holland Street, Milton Street, Fern Street, Hazel Street, Anawan Street, and Donald Street.

Using a track-mounted Geoprobe® drill rig, each soil boring was advanced to a depth of ten (10) feet below ground surface and completed as a 2-inch monitoring well. Each boring is numbered, ranging from B-1 to B-19. Soil boring B-18 could not be installed due to a conflict with the originally proposed boring location. Therefore, soil boring B-19 was chosen as a substitute.

The soil and/or waste material observed from all borings was visually characterized and the description was noted on the Soil Boring Logs (**Appendix A**). If waste material was encountered, the thickness of this material was also documented in the boring logs.

The soil and/or waste material was screened in the field for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID) equipped with a 10.6 eV lamp. The results of the screening are discussed below and included in the boring logs.

2.2 Soil Sampling

One (1) soil sample was collected from each boring and submitted to ESS Laboratory (Cranston, RI) for analysis. If a waste material/fill layer was observed in the boring, a sample was collected of this material. If waste material/fill was not encountered, a composite soil sample was collected from 0 to 5 feet below ground surface (bgs). Soil samples were analyzed for polychlorinated biphenyls (PCBs), the 14 MCP metals, VOCs, semi-volatile organic compounds (SVOCs), and extractable petroleum hydrocarbons (EPH).

3.0 RESULTS OF INVESTIGATION

3.1 Thickness and Extent of Waste Material

A fill layer was observed at nine (9) of the boring locations, including B-1, B-2, B-3, B-4, B-5, B-7, B-12, B-15, and B-19. The fill layer ranged in depth from 3 inches to 24 inches bgs. Coal ash, clinkers, glass, and brick were observed in the fill layer at these locations.

3.2 Soil-Screening Results

Soils were screened at all sampling locations for VOCs using a PID meter that yielded concentration of VOCs in the parts per million by volume (ppmv) range. The screening results indicated that VOCs were not present in any of the samples.

3.3 Analytical Results for Soil Samples

Contaminants were detected at concentrations above the applicable MCP Standards for soil in a residential setting (Soil Category S-1 Standards) at four (4) sampling locations. Polycyclic aromatic hydrocarbons, including acenaphthylene ranging from 1.88 to 4.39 milligrams per kilogram (mg/kg which is approximately parts per million or ppm); benzo(a)pyrene ranging from 3.85 to 15.7 mg/kg; dibenzo(a,h)anthracene ranging from 1.31 to 5.08 mg/kg; benzo(a)anthracene at 15.1 mg/kg; benzo(b)fluoranthene at 19 mg/kg; indeno(1,2,3-cd)pyrene at 8.49 mg/kg; and phenanthrene at 19 mg/kg were detected in the soil samples collected from borings at B-1 and B-7; lead was detected in the soil collected from borings B-5, B-7, and B-12 ranging from 202 to 612 mg/kg; and

PCBs were detected in the soil collected from B-12 at a concentration of 8.7 mg/kg. These results and the Soil Category S-1 Standards for these contaminants are summarized in **Table 1**.

Although the contaminants specified above were detected at concentrations that exceed Soil Category S-1 Standards, none of the concentrations would pose an Imminent Hazard condition, which is defined in the MCP as a hazard that would pose a significant risk to health, safety, public welfare, or the environment if present for even a short period of time. As such, Immediate Response Actions are not required with respect to the locations of these borings.

Contaminants were also detected in the soil at fourteen (14) out of eighteen (18) sampling locations, but at concentrations below MassDEP's Standards for soil in a residential setting.

Metals and polycyclic aromatic hydrocarbons (PAHs) are typical components of historic fill. Lead is commonly found in Massachusetts soils and can be attributable to a number of different sources, such as from automobile exhaust from the past use of leaded gasoline and lead-based paint used on older residences and commercial properties. Lead can also be natural occurring. PAHs are widely present in the environment and are typically formed during the incomplete burning of organic material such as wood, coal, and solid waste. Given the past use of coal-burning furnaces and lead-based paint at residential properties lead is typically detected in the soil from urban settings.

The full set of soil analytical results are contained in **Appendix B**.

4.0 PROGRESS MADE

The right-of-way soil sampling effort yielded several key pieces of information that will assist MassDEP in moving forward with the State-lead investigation. It was determined the waste material/fill layer is shallow and fairly narrow across the study area, ranging from a few inches below the ground surface to approximately 2 feet in depth. Using this information, MassDEP can now focus the investigation on assessing soil located within the top several feet of the ground surface. In addition, analysis of the waste material/fill layer samples will assist MassDEP in narrowing the list of contaminants of concern.

5.0 ON-GOING AND NEXT STEPS

The soil sampling conducted in the Town of Dartmouth roadways right-of ways was the initial steps of this State-lead investigation. Additional work is either in progress or will be conducted in the very near future to better define the extent and potential risk of the waste material in the Bliss Corner Neighborhood. The following sections identify the work being conducted at this time, or soon to be conducted.

5.1 Groundwater Sampling and Analysis

Between May 30 and June 4, 2019, MassDEP and its contractor, Green Environmental, collected groundwater samples from 15 of the 18 monitoring wells installed in the right-of-ways for analysis of PCBs, the 14-MCP metals, VOCs, SVOCs, and EPH. Groundwater samples could not be collected from monitoring wells MW-3, -6 and -15 due to a lack of groundwater recharge when sampling was attempted.

Following MassDEP's receipt of the groundwater analytical results, the data will be summarized in a second status report and posted on MassDEP's webpage (<https://www.mass.gov/service-details/bliss-corner-neighborhood-dartmouth-ma>).

5.2 Initial Soil Sampling and Analysis on Private Residential Properties

MassDEP mailed Access Agreements to the owners of several private residential properties for soil testing. Up to five (5) soil samples may be collected from each property for analysis of metals, PCBs, and PAHs. These properties were selected based on their proximity to the 85 McCabe Street and 20 Kraseman Street properties and are within the areas known to have the thickest amount of waste material/fill based on the soil borings advanced by MassDEP and its contractor.

5.3 Identification of Potentially Responsible Parties (PRPs)

Responses to MassDEP's Requests for Information for documents pertaining to historic dumping in the Bliss Corner neighborhood have been submitted by the Town of Dartmouth and City of New Bedford. MassDEP is in the process of reviewing the information submitted.

5.4 Public Meeting

MassDEP will hold a second public meeting in late summer 2019 to provide updates on the soil and groundwater sampling results and additional progress to date. Once a specific date is determined, a meeting announcement will be posted on MassDEP's website at: <https://www.mass.gov/service-details/bliss-corner-neighborhood-dartmouth-ma>

Figures

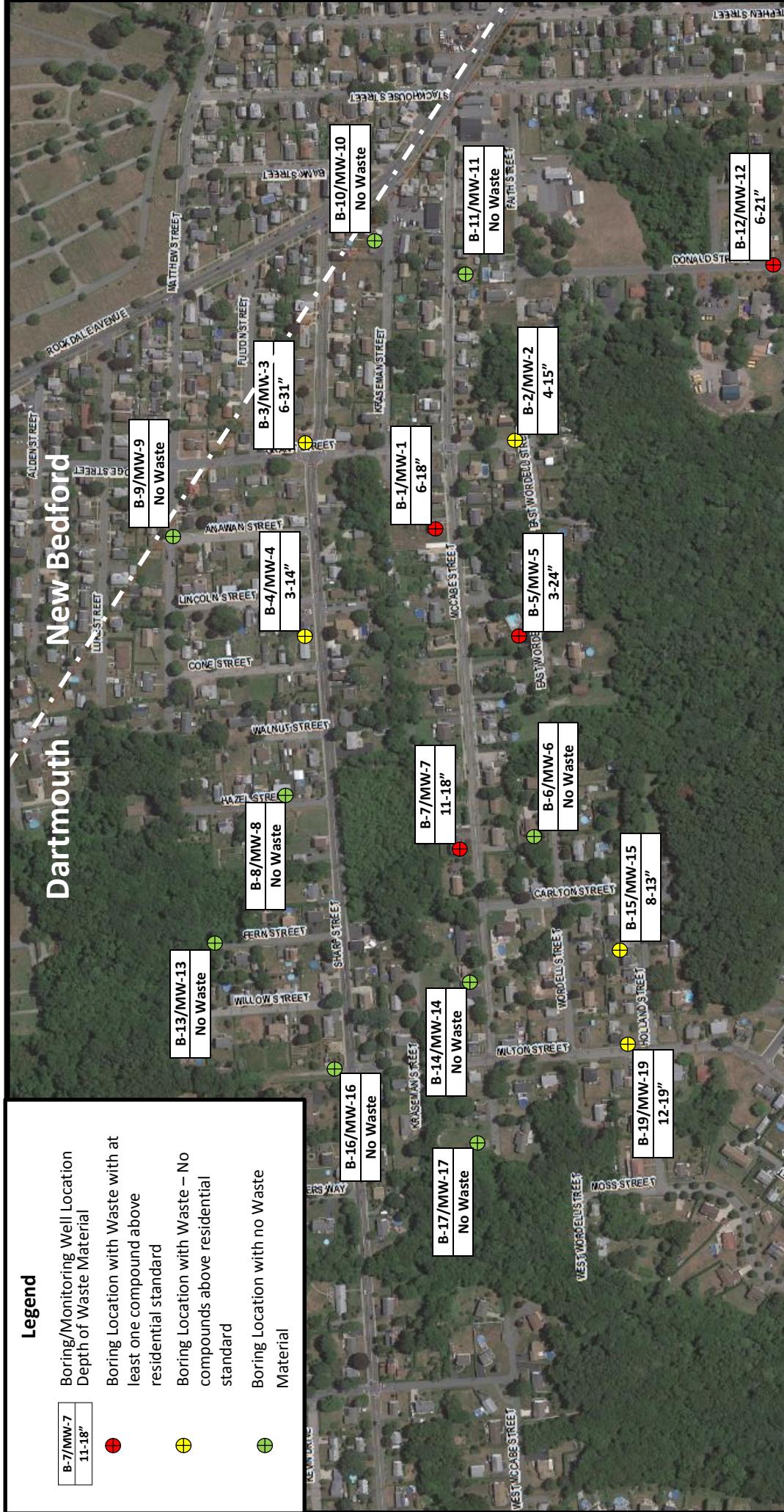


Figure 1
Boring Location Waste Material/Fill Thickness
Investigation of Waste Material in the Bliss Corner Neighborhood

Tables

Table 1

**Contaminants Detected in Soil Above MassDEP Standards
Investigation of Waste Material in the Bliss Corner Neighborhood**

Samples collected in May 2019

Location	Contaminant	Concentration in sample (mg/kg) ¹	S-1 Standard ² (mg/kg)
B-1	Acenaphthylene	1.88	1
	Benzo(a)pyrene	3.85	2
	Dibenzo(a,h)anthracene	1.31	0.7
B-5	Lead	612	200
B-7	Lead	202	200
	Acenaphthylene	4.39	1
	Benzo(a)anthracene	15.1	7
	Benzo(a)pyrene	15.7	2
	Benzo(b)fluoranthene	19	7
	Dibenzo(a,h)anthracene	5.08	0.7
	Indeno(1,2,3-cd)pyrene	8.49	7
	Phenanthrene	19	10
B-12	Lead	205	200
	Polychlorinated biphenyls (PCBs)	8.7	1

Notes: 1. mg/kg = milligrams per kilogram which is approximately parts per million (PPM)
 2. Category S-1 soil standards are considered safe in residential settings.

Appendix A

Soil Boring Logs

TEST BORING REPORT							BORING NUMBER: B5		
 <p>296 Weymouth Street, Unit C, Rockland, MA 02370 Telephone (617) 479-0550 Fax (617) 479-5150 Hazardous Waste Management - Consulting/Contracting Services</p>			PROJECT: Mass DEP Bliss Corner LOCATION: Bliss Corner South Dartmouth Ma CONTRACTOR: New England Geotech			JOB NUMBER: 19137 CLIENT: Mass DEP 1 Winter St. Boston, Ma 02108 DRILLER: Menor FIELD REP: P Smolcha, A Lucci DATE: 5/6/2019			
		SAMPLER	CASING	CORE BARREL		DEPTH TO GROUNDWATER			
TYPE		GeoProbe	Steel	N/A		DATE	05/10/19		
SIZE (ID)		2"	3.25"	N/A		TIME	13:50		
HAMMER WEIGHT		N/A	N/A			DEPTH	2.80'		
HAMMER FALL		N/A	N/A			SURFACE ELEV:			
SAMPLE					Strata Change	DESCRIPTION OF MATERIALS			PID ppmv
DEPTH (feet)	No ID	DEPTH (feet)	REC/PEN Inches	BLOWS/6"					
					0-3" pavement				
					3-24" FILL , coal, glass, ash throughout				
					3-8" brown fine medium sand , some gravel				
					8-17" light gray fine sand , some gravel				
					17-24" orange fine to medium sand , some gravel				
5	S1	0-5	39/60		24-28" black organic layer , peat			0.0	
					28-39" light grey fine sand/ silt				
10	S2	5-10	56/60		0-12" light grey fine sand				
					12-24" orange brown fine sand , wet			0.0	
					24-56" light gray fine sand , wet				
DRILLING RIG TYPE: 7822DT Geoprobe							SURFACE ELEVATION:		
MONITORING WELL INSTALLED: YES							START DATE: 5/6/2019		
RISER FROM: 0' TO: 1.5' SCREEN FROM: 1.5' TO: 10'							END DATE: 5/6/2019		
PROPORTIONS USED		RELATIVE DENSITY		CONSISTENCY		SOIL CLASSIFICATION (inches)			SUMMARY
trace	0-10%	0-4	Very Loose	0-2	Very Soft	Boulders	>11.8	Fine Sand .02-.003	Overburden (feet):
little	10-20%	5-10	Loose	2-4	Soft	Cobbles	11.8-2.9	Fine Silt <.003	Rock Cored (feet):
some	20-35%	10-30	Medium Dense	4-8	Medium Stiff	Coarse Gravel	2.9-.75	Clay <.003	# of samples:
and	35-50%	30-50	Dense	8-15	Stiff	Fine Gravel	.75-.19		Well set (feet):
		50+	Very Dense	15-30	Very Stiff	Course Sand	.19-.08		
				30+	Hard	Medium Sand	.08-.02		

TEST BORING REPORT								BORING NUMBER: B7	
 <p>296 Weymouth Street, Unit C, Rockland, MA 02370 Telephone (617) 479-0550 Fax (617) 479-5150 Hazardous Waste Management - Consulting/Contracting Services</p>			PROJECT: Mass DEP Bliss Corner LOCATION: Bliss Corner South Dartmouth Ma CONTRACTOR: New England Geotech			JOB NUMBER: 19137 CLIENT: Mass DEP 1 Winter St. Boston, Ma 02108 DRILLER: Menor FIELD REP: P Smolcha, A Lucci DATE: 5/6/2019			
		SAMPLER	CASING	CORE BARREL		DEPTH TO GROUNDWATER			
TYPE		GeoProbe	Steel	N/A		DATE	05/10/19		
SIZE (ID)		2"	3.25"	N/A		TIME	13:30		
HAMMER WEIGHT		N/A	N/A			DEPTH	3.10'		
HAMMER FALL		N/A	N/A			SURFACE ELEV:			
SAMPLE					Strata Change	DESCRIPTION OF MATERIALS			PID ppmv
DEPTH (feet)	No ID	DEPTH (feet)	REC/PEN Inches	BLOWS/6"					
					0-5" pavement				
					5-11" brown fine to medium sand and gravel				
					11-18" dark brown to black fine to medium sand with coal ash, clinker , coal , some gravel FILL				
5	S1	0-5	42/60		18-29" light brown fine sand & silt , trace gravel			0.0	
					29-36" dark brown sand & gravel				
					39-42" wood in top of spoon				
10	S2	5-10	48/60		0-3" wood & gravel				
					3-9" gravel			0.0	
					9-48" light fine gray sand/ silt , wet				
DRILLING RIG TYPE: 7822DT Geoprobe MONITORING WELL INSTALLED: YES RISER FROM: 0' TO: 2' SCREEN FROM: 2' TO: 10'								SURFACE ELEVATION: START DATE: 5/6/2019 END DATE: 5/6/2019	
PROPORTIONS USED		RELATIVE DENSITY		CONSISTENCY		SOIL CLASSIFICATION (inches)			SUMMARY
trace	0-10%	0-4	Very Loose	0-2	Very Soft	Boulders	>11.8	Fine Sand .02-.003	Overburden (feet):
little	10-20%	5-10	Loose	2-4	Soft	Cobbles	11.8-2.9	Fine Silt <.003	Rock Cored (feet):
some	20-35%	10-30	Medium Dense	4-8	Medium Stiff	Coarse Gravel	2.9-.75	Clay <.003	# of samples:
and	35-50%	30-50	Dense	8-15	Stiff	Fine Gravel	.75-.19		Well set (feet):
		50+	Very Dense	15-30	Very Stiff	Course Sand	.19-.08		
				30+	Hard	Medium Sand	.08-.02		

TEST BORING REPORT							BORING NUMBER: B11	
 GREEN ENVIRONMENTAL 296 Weymouth Street, Unit C, Rockland, MA 02370 Telephone (617) 479-0550 Fax (617) 479-5150 Hazardous Waste Management - Consulting/Contracting Services		PROJECT: Mass DEP Bliss Corner LOCATION: Bliss Corner South Dartmouth Ma CONTRACTOR: New England Geotech			JOB NUMBER: 19137 CLIENT: Mass DEP 1 Winter St. Boston, Ma 02108 DRILLER: Menor FIELD REP: P Smolcha, A Lucci DATE: 5/6/2019			
		SAMPLER	CASING	CORE BARREL	DEPTH TO GROUNDWATER			
TYPE		GeoProbe	Steel	N/A	DATE	05/10/19		
SIZE (ID)		2"	3.25"	N/A	TIME	8:30		
HAMMER WEIGHT		N/A	N/A		DEPTH	5.65'		
HAMMER FALL		N/A	N/A		SURFACE ELEV:			
SAMPLE					Strata Change	DESCRIPTION OF MATERIALS		PID ppmv
DEPTH (feet)	No ID	DEPTH (feet)	REC/PEN Inches	BLOWS/6"				
5	S1	0-5	48/60			0-4" Pavement 4-9" dark brown fine to medium sand 9-30" orange brown fine to medium sand 30-48" light brown fine to medium sand		0.0
10	S2	5-10	54/60			0-54" light brown fine to medium sand		0.0
15	S3	10-15	54/60			0-54" light brown fine to medium sand & silt , wet		0.0
DRILLING RIG TYPE: 7822DT Geoprobe					SURFACE ELEVATION:			
MONITORING WELL INSTALLED: YES					START DATE: 5/6/2019			
RISER FROM: 0' TO: 5' SCREEN FROM: 5' TO: 15'					END DATE: 5/6/2019			
PROPORTIONS USED		RELATIVE DENSITY		CONSISTENCY		SOIL CLASSIFICATION (inches)		SUMMARY
trace	0-10%	0-4	Very Loose	0-2	Very Soft	Boulders >11.8	Fine Sand .02-.003	Overburden (feet):
little	10-20%	5-10	Loose	2-4	Soft	Cobbles 11.8-2.9	Fine Silt <.003	Rock Cored (feet):
some	20-35%	10-30	Medium Dense	4-8	Medium Stiff	Coarse Gravel 2.9-.75	Clay <.003	# of samples:
and	35-50%	30-50	Dense	8-15	Stiff	Fine Gravel .75-.19		Well set (feet):
		50+	Very Dense	15-30	Very Stiff	Course Sand .19-.08		
				30+	Hard	Medium Sand .08-.02		

TEST BORING REPORT							BORING NUMBER: B19	
 GREEN ENVIRONMENTAL 296 Weymouth Street, Unit C, Rockland, MA 02370 Telephone (617) 479-0550 Fax (617) 479-5150 Hazardous Waste Management - Consulting/Contracting Services		PROJECT: Mass DEP Bliss Corner LOCATION: Bliss Corner South Dartmouth Ma CONTRACTOR: New England Geotech			JOB NUMBER: 19137 CLIENT: Mass DEP 1 Winter St. Boston, Ma 02108 DRILLER: Menor FIELD REP: P Smolcha, A Lucci DATE: 5/7/2019			
		SAMPLER	CASING	CORE BARREL	DEPTH TO GROUNDWATER			
TYPE		GeoProbe	Steel	N/A	DATE	05/10/19		
SIZE (ID)		2"	3.25"	N/A	TIME	12:00		
HAMMER WEIGHT		N/A	N/A		DEPTH	4.50'		
HAMMER FALL		N/A	N/A		SURFACE ELEV:			
SAMPLE					Strata Change	DESCRIPTION OF MATERIALS		PID ppmv
DEPTH (feet)	No ID	DEPTH (feet)	REC/PEN Inches	BLOWS/6"				
5	S1	0-5	45/60		0-5" pavement 5-12" brown medium sand , little gravel 12-19" dark brown / black fine silty sand , coal ash , brick , FILL 19-21" organic (black) 21-27" brown fine sand and silt 27-36" orange brown fine sand, some silt 36-45" light gray fine silty sand, some gravel 0-44" light gray fine sand , silt , and gravel		0.0	
10	S2	5-10	44/60				0.0	
DRILLING RIG TYPE: 7822DT Geoprobe					SURFACE ELEVATION:			
MONITORING WELL INSTALLED: YES					START DATE: 5/6/2019			
RISER FROM: 0' TO: 2' SCREEN FROM: 2' TO: 10'					END DATE: 5/6/2019			
PROPORTIONS USED		RELATIVE DENSITY		CONSISTENCY		SOIL CLASSIFICATION (inches)		SUMMARY
trace	0-10%	0-4	Very Loose	0-2	Very Soft	Boulders >11.8	Fine Sand .02-.003	Overburden (feet):
little	10-20%	5-10	Loose	2-4	Soft	Cobbles 11.8-2.9	Fine Silt <.003	Rock Cored (feet):
some	20-35%	10-30	Medium Dense	4-8	Medium Stiff	Coarse Gravel 2.9-.75	Clay <.003	# of samples:
and	35-50%	30-50	Dense	8-15	Stiff	Fine Gravel .75-.19		Well set (feet):
		50+	Very Dense	15-30	Very Stiff	Course Sand .19-.08		
				30+	Hard	Medium Sand .08-.02		

Appendix B

Analytical Results



CERTIFICATE OF ANALYSIS

Parrish Smolcha
Green Environmental, Inc.
296 Weymouth Street Unit C
Rockland, MA 02370

RE: Bliss Corner (19137)
ESS Laboratory Work Order Number: 1905226

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:09 pm, May 14, 2019

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

SAMPLE RECEIPT

The following samples were received on May 07, 2019 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Low Level VOA vials were frozen by ESS Laboratory on May 07, 2019 at 20:22.

Lab Number	Sample Name	Matrix	Analysis
1905226-01	B-12 6-21in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905226-02	B-11 0-5 ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905226-03	B-2 4-15 in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905226-04	B-1 6-18 in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905226-05	B-5 3-24 in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905226-06	B-7 11-18 in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1905226-04	<u>Surrogate recovery(ies) below lower control limit (S-).</u> Tetrachloro-m-xylene (27% @ 30-150%)
1905226-06	<u>Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).</u> Tetrachloro-m-xylene (22% @ 30-150%), Tetrachloro-m-xylene [2C] (29% @ 30-150%)
1905226-06RE1	<u>Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).</u> Decachlorobiphenyl (11% @ 30-150%), Decachlorobiphenyl [2C] (14% @ 30-150%), Tetrachloro-m-xylene (5% @ 30-150%), Tetrachloro-m-xylene [2C] (6% @ 30-150%)

8270D Semi-Volatile Organic Compounds

C9E0117-CCV1	<u>Calibration required quadratic regression (Q).</u> 2,4-Dinitrophenol (63% @ 80-120%), Pentachlorophenol (96% @ 80-120%)
C9E0117-CCV1	<u>Continuing Calibration %Diff/Drift is below control limit (CD-).</u> 2,4-Dinitrophenol (37% @ 20%)
C9E0138-CCV1	<u>Calibration required quadratic regression (Q).</u> 2,4-Dinitrophenol (84% @ 80-120%), Pentachlorophenol (106% @ 80-120%)

MADEP-EPH Extractable Petroleum Hydrocarbons

C9E0122-CCV4	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Benzo(k)fluoranthene (30% @ 20%)
C9E0133-CCV2	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (33% @ 25%)
C9E0133-CCV3	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (38% @ 25%)
C9E0133-CCV4	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (49% @ 25%)
C9E0133-CCV5	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (36% @ 25%)
C9E0133-CCV6	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (27% @ 25%)
C9E0161-CCV2	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Benzo(g,h,i)perylene (22% @ 20%), Benzo(k)fluoranthene (30% @ 20%), Dibenzo(a,h)Anthracene (23% @ 20%)

No other observations noted.

End of Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1905226-01 through 1905226-06RE1**

Matrices: Ground Water/Surface Water Soil/Sediment Drinking Water Air Other: _____

CAM Protocol (check all that apply below):

- | | | | | | |
|------------------------------|-------------------------------|---|--------------------------------|---|------------------------------------|
| (X) 8260 VOC
CAM II A | (X) 7470/7471 Hg
CAM III B | () MassDEP VPH
(GC/PID/FID)
CAM IV A | (X) 8082 PCB
CAM V A | () 9014 Total
Cyanide/PAC
CAM VI A | () 6860 Perchlorate
CAM VIII B |
| (X) 8270 SVOC
CAM II B | () 7010 Metals
CAM III C | () MassDEP VPH
(GC/MS)
CAM IV C | () 8081 Pesticides
CAM V B | () 7196 Hex Cr
CAM VI B | () MassDEP APH
CAM IX A |
| (X) 6010 Metals
CAM III A | () 6020 Metals
CAM III D | (X) MassDEP EPH
CAM IV B | () 8151 Herbicides
CAM V C | () Explosives
CAM VIII A | () TO-15 VOC
CAM IX B |

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes (X) No ()
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes (X) No ()
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes (X) No ()
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No ()
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes () No ()
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes (X) No ()

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? Yes (X) No ()*
- Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.
- H Were all QC performance standards specified in the CAM protocol(s) achieved? Yes () No (X)*
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes () No (X)*

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Printed Name: Laurel Stoddard

Date: May 14, 2019

Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (10.3)		6010C		2	KJK	05/10/19 19:42	2.26	100	CE90967
Arsenic	ND (2.56)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Barium	42.9 (2.56)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Beryllium	0.21 (0.11)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Cadmium	ND (1.03)		6010C		2	KJK	05/10/19 19:42	2.26	100	CE90967
Chromium	11.1 (1.03)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Lead	205 (5.13)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Mercury	0.164 (0.031)		7471B		1	MKS	05/10/19 9:23	0.74	40	CE90968
Nickel	12.6 (2.56)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Selenium	ND (5.13)		6010C		1	KJK	05/10/19 19:53	2.26	100	CE90967
Silver	ND (0.51)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Thallium	ND (5.13)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Vanadium	15.1 (1.03)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967
Zinc	149 (2.56)		6010C		1	KJK	05/10/19 5:35	2.26	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0014)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
1,4-Dioxane	ND (0.0724)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
2-Butanone	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
2-Chlorotoluene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
2-Hexanone	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
4-Chlorotoluene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Acetone	0.0519 (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Benzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Bromobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Bromochloromethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Bromoform	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Bromomethane	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Carbon Disulfide	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Chlorobenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Chloroethane	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Chloroform	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Chloromethane	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Dibromochloromethane	ND (0.0014)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Dibromomethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Diethyl Ether	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Di-isopropyl ether	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Ethylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Isopropylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Methylene Chloride	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Naphthalene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
n-Butylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
n-Propylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
sec-Butylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Styrene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
tert-Butylbenzene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Tetrachloroethene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Tetrahydrofuran	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Toluene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Trichloroethene	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Vinyl Chloride	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Xylene O	ND (0.0036)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Xylene P,M	ND (0.0072)		8260B Low		1	05/13/19 15:48	C9E0195	CE91320
Xylenes (Total)	ND (0.0072)		8260B Low		1	05/13/19 15:48		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	115 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	92 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	107 %		70-130
<i>Surrogate: Toluene-d8</i>	101 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 19.2

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/8/19 16:38

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1254 [2C]	7.8 (0.6)		8082A		10	05/14/19 11:22		CE90807
Aroclor 1260	0.9 (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 1:09		CE90807
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 1:09		CE90807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	90 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	91 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	73 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 15.5

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
1,2-Dichlorobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
1,3-Dichlorobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
1,4-Dichlorobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,4,5-Trichlorophenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,4,6-Trichlorophenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,4-Dichlorophenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,4-Dimethylphenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,4-Dinitrophenol	ND (1.87)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,4-Dinitrotoluene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2,6-Dinitrotoluene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2-Chloronaphthalene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2-Chlorophenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2-Methylnaphthalene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2-Methylphenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
2-Nitrophenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
3,3'-Dichlorobenzidine	ND (0.748)		8270D		1	05/09/19 2:22	C9E0117	CE90809
3+4-Methylphenol	ND (0.748)		8270D		1	05/09/19 2:22	C9E0117	CE90809
4-Bromophenyl-phenylether	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
4-Chloroaniline	ND (0.748)		8270D		1	05/09/19 2:22	C9E0117	CE90809
4-Nitrophenol	ND (1.87)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Acenaphthene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Acenaphthylene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Acetophenone	ND (0.748)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Aniline	ND (1.87)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Anthracene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Azobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Benzo(a)anthracene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Benzo(a)pyrene	ND (0.187)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Benzo(b)fluoranthene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Benzo(g,h,i)perylene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Benzo(k)fluoranthene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 15.5

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
bis(2-Chloroethyl)ether	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
bis(2-chloroisopropyl)Ether	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Butylbenzylphthalate	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Chrysene	ND (0.187)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Dibenzo(a,h)Anthracene	ND (0.187)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Dibenzofuran	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Diethylphthalate	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Dimethylphthalate	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Di-n-butylphthalate	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Di-n-octylphthalate	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Fluoranthene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Fluorene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Hexachlorobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Hexachlorobutadiene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Hexachloroethane	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Indeno(1,2,3-cd)Pyrene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Isophorone	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Naphthalene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Nitrobenzene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
N-Nitrosodimethylamine	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Pentachlorophenol	ND (1.87)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Phenanthrene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Phenol	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809
Pyrene	ND (0.373)		8270D		1	05/09/19 2:22	C9E0117	CE90809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	68 %		30-130
Surrogate: 2,4,6-Tribromophenol	90 %		30-130
Surrogate: 2-Chlorophenol-d4	76 %		30-130
Surrogate: 2-Fluorobiphenyl	70 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 15.5

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		72 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		63 %		30-130				
<i>Surrogate: Phenol-d6</i>		77 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		93 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-12 6-21in

Date Sampled: 05/06/19 08:50

Percent Solids: 86

Initial Volume: 25.6

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-01

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/8/19 14:25

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (17.0)		MADEP-EPH		1	CAD	05/09/19 20:20	C9E0133	CE90804
C19-C36 Aliphatics1	20.5 (17.0)		MADEP-EPH		1	CAD	05/09/19 20:20	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	25.5 (17.0)		EPH8270		1	VSC	05/09/19 10:36	C9E0122	CE90804
C11-C22 Aromatics1,2	25.5 (17.0)		EPH8270			VSC	05/09/19 10:36		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	61 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	108 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	106 %		40-140
<i>Surrogate: O-Terphenyl</i>	75 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.46)		6010C		1	KJK	05/10/19 19:57	2.2	100	CE90967
Arsenic	ND (2.73)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Barium	13.9 (2.73)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Beryllium	0.30 (0.12)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Cadmium	ND (0.55)		6010C		1	KJK	05/10/19 19:57	2.2	100	CE90967
Chromium	9.71 (1.09)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Lead	10.1 (5.46)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Mercury	0.043 (0.026)		7471B		1	MKS	05/10/19 9:25	0.93	40	CE90968
Nickel	4.43 (2.73)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Selenium	ND (5.46)		6010C		1	KJK	05/10/19 19:57	2.2	100	CE90967
Silver	ND (0.55)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Thallium	ND (5.46)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Vanadium	16.6 (1.09)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967
Zinc	16.1 (2.73)		6010C		1	KJK	05/10/19 5:39	2.2	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 8.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0015)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
1,4-Dioxane	ND (0.0732)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
2-Butanone	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
2-Chlorotoluene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
2-Hexanone	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
4-Chlorotoluene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Acetone	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Benzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Bromobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Bromochloromethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 8.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Bromoform	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Bromomethane	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Carbon Disulfide	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Chlorobenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Chloroethane	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Chloroform	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Chloromethane	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Dibromochloromethane	ND (0.0015)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Dibromomethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Diethyl Ether	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Di-isopropyl ether	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Ethylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Isopropylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Methylene Chloride	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Naphthalene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
n-Butylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
n-Propylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
sec-Butylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Styrene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
tert-Butylbenzene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Tetrachloroethene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Tetrahydrofuran	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Toluene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 8.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Trichloroethene	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Vinyl Chloride	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Xylene O	ND (0.0037)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Xylene P,M	ND (0.0073)		8260B Low		1	05/13/19 16:14	C9E0195	CE91320
Xylenes (Total)	ND (0.0073)		8260B Low		1	05/13/19 16:14		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	115 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	94 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	106 %		70-130
<i>Surrogate: Toluene-d8</i>	98 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 20.3

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/8/19 16:38

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1221	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1232	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1242	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1248	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1254	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1260	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1262	ND (0.06)		8082A		1	05/11/19 3:33		CE90807
Aroclor 1268	ND (0.06)		8082A		1	05/11/19 3:33		CE90807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	90 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 14

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
1,2-Dichlorobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
1,3-Dichlorobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
1,4-Dichlorobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,4,5-Trichlorophenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,4,6-Trichlorophenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,4-Dichlorophenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,4-Dimethylphenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,4-Dinitrophenol	ND (2.15)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,4-Dinitrotoluene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2,6-Dinitrotoluene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2-Chloronaphthalene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2-Chlorophenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2-Methylnaphthalene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2-Methylphenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
2-Nitrophenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
3,3'-Dichlorobenzidine	ND (0.858)		8270D		1	05/09/19 2:48	C9E0117	CE90809
3+4-Methylphenol	ND (0.858)		8270D		1	05/09/19 2:48	C9E0117	CE90809
4-Bromophenyl-phenylether	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
4-Chloroaniline	ND (0.858)		8270D		1	05/09/19 2:48	C9E0117	CE90809
4-Nitrophenol	ND (2.15)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Acenaphthene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Acenaphthylene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Acetophenone	ND (0.858)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Aniline	ND (2.15)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Anthracene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Azobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Benzo(a)anthracene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Benzo(a)pyrene	ND (0.215)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Benzo(b)fluoranthene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Benzo(g,h,i)perylene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Benzo(k)fluoranthene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 14

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
bis(2-Chloroethyl)ether	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
bis(2-chloroisopropyl)Ether	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Butylbenzylphthalate	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Chrysene	ND (0.215)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Dibenzo(a,h)Anthracene	ND (0.215)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Dibenzofuran	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Diethylphthalate	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Dimethylphthalate	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Di-n-butylphthalate	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Di-n-octylphthalate	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Fluoranthene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Fluorene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Hexachlorobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Hexachlorobutadiene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Hexachloroethane	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Indeno(1,2,3-cd)Pyrene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Isophorone	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Naphthalene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Nitrobenzene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
N-Nitrosodimethylamine	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Pentachlorophenol	ND (2.15)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Phenanthrene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Phenol	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809
Pyrene	ND (0.428)		8270D		1	05/09/19 2:48	C9E0117	CE90809

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	70 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	90 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	75 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	71 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 14

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		73 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		65 %		30-130				
<i>Surrogate: Phenol-d6</i>		76 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		95 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-11 0-5 ft

Date Sampled: 05/06/19 10:00

Percent Solids: 83

Initial Volume: 24.7

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-02

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/8/19 14:25

MADEP-EPH Extractable Petroleum Hydrocarbons

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
C9-C18 Aliphatics1	ND (18.2)		MADEP-EPH		1	CAD	05/09/19 21:07	C9E0133	CE90804
C19-C36 Aliphatics1	ND (18.2)		MADEP-EPH		1	CAD	05/09/19 21:07	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	ND (18.2)		EPH8270		1	VSC	05/09/19 11:13	C9E0122	CE90804
C11-C22 Aromatics1,2	ND (18.2)		EPH8270			VSC	05/09/19 11:13		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	65 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	115 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	109 %		40-140
<i>Surrogate: O-Terphenyl</i>	72 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.31)		6010C		1	KJK	05/10/19 20:01	2.56	100	CE90967
Arsenic	ND (2.15)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Barium	20.1 (2.15)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Beryllium	0.28 (0.09)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Cadmium	ND (0.43)		6010C		1	KJK	05/10/19 20:01	2.56	100	CE90967
Chromium	5.10 (0.86)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Lead	32.0 (4.31)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Mercury	0.023 (0.017)		7471B		1	MKS	05/10/19 9:27	1.26	40	CE90968
Nickel	4.82 (2.15)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Selenium	ND (4.31)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Silver	ND (0.43)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Thallium	ND (4.31)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Vanadium	7.64 (0.86)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967
Zinc	26.3 (2.15)		6010C		1	KJK	05/10/19 5:43	2.56	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
1,4-Dioxane	ND (0.0656)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
2-Butanone	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
2-Chlorotoluene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
2-Hexanone	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
4-Chlorotoluene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Acetone	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Benzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Bromobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Bromochloromethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Bromoform	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Bromomethane	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Carbon Disulfide	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Chlorobenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Chloroethane	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Chloroform	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Chloromethane	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Dibromochloromethane	ND (0.0013)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Dibromomethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Diethyl Ether	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Di-isopropyl ether	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Ethylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Isopropylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Methylene Chloride	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Naphthalene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
n-Butylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
n-Propylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
sec-Butylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Styrene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
tert-Butylbenzene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Tetrachloroethene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Tetrahydrofuran	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Toluene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Trichloroethene	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Vinyl Chloride	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Xylene O	ND (0.0033)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Xylene P,M	ND (0.0066)		8260B Low		1	05/13/19 16:39	C9E0195	CE91320
Xylenes (Total)	ND (0.0066)		8260B Low		1	05/13/19 16:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	112 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	94 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	105 %		70-130
<i>Surrogate: Toluene-d8</i>	99 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 19.4

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/8/19 16:38

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1254 [2C]	0.1 (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1260 [2C]	0.1 (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 1:28		CE90807
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 1:28		CE90807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	74 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 14.4

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
1,2-Dichlorobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
1,3-Dichlorobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
1,4-Dichlorobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,4,5-Trichlorophenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,4,6-Trichlorophenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,4-Dichlorophenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,4-Dimethylphenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,4-Dinitrophenol	ND (1.92)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,4-Dinitrotoluene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2,6-Dinitrotoluene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2-Chloronaphthalene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2-Chlorophenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2-Methylnaphthalene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2-Methylphenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
2-Nitrophenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
3,3'-Dichlorobenzidine	ND (0.766)		8270D		1	05/09/19 16:45	C9E0138	CE90809
3+4-Methylphenol	ND (0.766)		8270D		1	05/09/19 16:45	C9E0138	CE90809
4-Bromophenyl-phenylether	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
4-Chloroaniline	ND (0.766)		8270D		1	05/09/19 16:45	C9E0138	CE90809
4-Nitrophenol	ND (1.92)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Acenaphthene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Acenaphthylene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Acetophenone	ND (0.766)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Aniline	ND (1.92)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Anthracene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Azobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Benzo(a)anthracene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Benzo(a)pyrene	ND (0.192)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Benzo(b)fluoranthene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Benzo(g,h,i)perylene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Benzo(k)fluoranthene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 14.4

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
bis(2-Chloroethyl)ether	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
bis(2-chloroisopropyl)Ether	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Butylbenzylphthalate	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Chrysene	ND (0.192)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Dibenzo(a,h)Anthracene	ND (0.192)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Dibenzofuran	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Diethylphthalate	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Dimethylphthalate	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Di-n-butylphthalate	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Di-n-octylphthalate	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Fluoranthene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Fluorene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Hexachlorobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Hexachlorobutadiene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Hexachloroethane	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Indeno(1,2,3-cd)Pyrene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Isophorone	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Naphthalene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Nitrobenzene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
N-Nitrosodimethylamine	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Pentachlorophenol	ND (1.92)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Phenanthrene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Phenol	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809
Pyrene	ND (0.382)		8270D		1	05/09/19 16:45	C9E0138	CE90809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	60 %		30-130
Surrogate: 2,4,6-Tribromophenol	78 %		30-130
Surrogate: 2-Chlorophenol-d4	65 %		30-130
Surrogate: 2-Fluorobiphenyl	66 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 14.4

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		64 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		60 %		30-130				
<i>Surrogate: Phenol-d6</i>		66 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		72 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-2 4-15 in

Date Sampled: 05/06/19 11:30

Percent Solids: 91

Initial Volume: 24.6

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-03

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/8/19 14:25

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.8)		MADEP-EPH		1	CAD	05/09/19 21:54	C9E0133	CE90804
C19-C36 Aliphatics1	28.7 (16.8)		MADEP-EPH		1	CAD	05/09/19 21:54	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	83.8 (16.8)		EPH8270		1	VSC	05/10/19 23:37	C9E0161	CE90804
C11-C22 Aromatics1,2	75.8 (16.8)		EPH8270			VSC	05/10/19 23:37		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	60 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	119 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	115 %		40-140
<i>Surrogate: O-Terphenyl</i>	76 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.14)		6010C		1	KJK	05/10/19 20:26	2.8	100	CE90967
Arsenic	ND (2.07)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Barium	42.5 (2.07)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Beryllium	0.23 (0.09)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Cadmium	0.44 (0.41)		6010C		1	KJK	05/10/19 20:26	2.8	100	CE90967
Chromium	8.47 (0.83)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Lead	137 (4.14)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Mercury	0.142 (0.022)		7471B		1	MKS	05/10/19 9:29	1.06	40	CE90968
Nickel	5.38 (2.07)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Selenium	ND (4.14)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Silver	ND (0.41)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Thallium	ND (4.14)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Vanadium	11.2 (0.83)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967
Zinc	210 (2.07)		6010C		1	KJK	05/10/19 5:47	2.8	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 9.1

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
1,4-Dioxane	ND (0.0637)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
2-Butanone	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
2-Chlorotoluene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
2-Hexanone	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
4-Chlorotoluene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Acetone	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Benzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Bromobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Bromochloromethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 9.1

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Bromoform	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Bromomethane	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Carbon Disulfide	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Chlorobenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Chloroethane	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Chloroform	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Chloromethane	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Dibromochloromethane	ND (0.0013)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Dibromomethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Diethyl Ether	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Di-isopropyl ether	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Ethylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Isopropylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Methylene Chloride	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Naphthalene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
n-Butylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
n-Propylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
sec-Butylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Styrene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
tert-Butylbenzene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Tetrachloroethene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Tetrahydrofuran	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Toluene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 9.1

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Trichloroethene	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Vinyl Chloride	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Xylene O	ND (0.0032)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Xylene P,M	ND (0.0064)		8260B Low		1	05/13/19 17:05	C9E0195	CE91320
Xylenes (Total)	ND (0.0064)		8260B Low		1	05/13/19 17:05		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		119 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		91 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		110 %		70-130				
<i>Surrogate: Toluene-d8</i>		101 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 20

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/8/19 16:38

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1254	0.07 (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1260 [2C]	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 1:47		CE90807
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 1:47		CE90807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	43 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	47 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	27 %	S-	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	33 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 14.1

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
1,2-Dichlorobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
1,3-Dichlorobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
1,4-Dichlorobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,4,5-Trichlorophenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,4,6-Trichlorophenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,4-Dichlorophenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,4-Dimethylphenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,4-Dinitrophenol	ND (2.06)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,4-Dinitrotoluene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2,6-Dinitrotoluene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2-Chloronaphthalene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2-Chlorophenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2-Methylnaphthalene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2-Methylphenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
2-Nitrophenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
3,3'-Dichlorobenzidine	ND (0.822)		8270D		1	05/09/19 17:11	C9E0138	CE90809
3+4-Methylphenol	ND (0.822)		8270D		1	05/09/19 17:11	C9E0138	CE90809
4-Bromophenyl-phenylether	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
4-Chloroaniline	ND (0.822)		8270D		1	05/09/19 17:11	C9E0138	CE90809
4-Nitrophenol	ND (2.06)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Acenaphthene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Acenaphthylene	1.88 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Acetophenone	ND (0.822)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Aniline	ND (2.06)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Anthracene	1.15 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Azobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Benzo(a)anthracene	4.24 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Benzo(a)pyrene	3.85 (0.206)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Benzo(b)fluoranthene	4.39 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Benzo(g,h,i)perylene	2.51 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Benzo(k)fluoranthene	3.09 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 14.1

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
bis(2-Chloroethyl)ether	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
bis(2-chloroisopropyl)Ether	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Butylbenzylphthalate	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Chrysene	5.35 (0.206)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Dibenzo(a,h)Anthracene	1.31 (0.206)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Dibenzofuran	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Diethylphthalate	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Dimethylphthalate	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Di-n-butylphthalate	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Di-n-octylphthalate	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Fluoranthene	9.30 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Fluorene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Hexachlorobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Hexachlorobutadiene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Hexachloroethane	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Indeno(1,2,3-ed)Pyrene	2.41 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Isophorone	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Naphthalene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Nitrobenzene	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
N-Nitrosodimethylamine	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Pentachlorophenol	ND (2.06)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Phenanthrene	5.26 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Phenol	ND (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809
Pyrene	8.26 (0.411)		8270D		1	05/09/19 17:11	C9E0138	CE90809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	68 %		30-130
Surrogate: 2,4,6-Tribromophenol	93 %		30-130
Surrogate: 2-Chlorophenol-d4	75 %		30-130
Surrogate: 2-Fluorobiphenyl	73 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 14.1

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		73 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		69 %		30-130				
<i>Surrogate: Phenol-d6</i>		75 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		83 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-1 6-18 in

Date Sampled: 05/06/19 12:40

Percent Solids: 86

Initial Volume: 24.1

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-04

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/8/19 14:25

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (18.0)		MADEP-EPH		1	CAD	05/09/19 22:41	C9E0133	CE90804
C19-C36 Aliphatics1	ND (18.0)		MADEP-EPH		1	CAD	05/09/19 22:41	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	144 (18.0)		EPH8270		1	VSC	05/11/19 0:13	C9E0161	CE90804
C11-C22 Aromatics1,2	110 (18.0)		EPH8270			ZLC	05/11/19 0:13		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	68 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	114 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	111 %		40-140
<i>Surrogate: O-Terphenyl</i>	80 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (6.91)		6010C		1	KJK	05/10/19 20:30	2.06	100	CE90967
Arsenic	10.7 (3.46)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Barium	394 (3.46)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Beryllium	0.66 (0.15)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Cadmium	1.37 (0.69)		6010C		1	KJK	05/10/19 20:30	2.06	100	CE90967
Chromium	15.3 (1.38)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Lead	612 (6.91)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Mercury	0.056 (0.035)		7471B		1	MKS	05/10/19 9:31	0.8	40	CE90968
Nickel	16.8 (3.46)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Selenium	ND (6.91)		6010C		1	KJK	05/10/19 20:30	2.06	100	CE90967
Silver	ND (0.69)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Thallium	ND (6.91)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Vanadium	25.9 (1.38)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967
Zinc	398 (3.46)		6010C		1	KJK	05/10/19 5:51	2.06	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0018)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
1,4-Dioxane	ND (0.0890)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
2-Butanone	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
2-Chlorotoluene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
2-Hexanone	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
4-Chlorotoluene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Acetone	0.0098 (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Benzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Bromobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Bromochloromethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Bromoform	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Bromomethane	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Carbon Disulfide	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Chlorobenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Chloroethane	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Chloroform	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Chloromethane	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Dibromochloromethane	ND (0.0018)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Dibromomethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Diethyl Ether	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Di-isopropyl ether	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Ethylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Isopropylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Methylene Chloride	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Naphthalene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
n-Butylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
n-Propylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
sec-Butylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Styrene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
tert-Butylbenzene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Tetrachloroethene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Tetrahydrofuran	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Toluene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Trichloroethene	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Vinyl Chloride	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Xylene O	ND (0.0045)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Xylene P,M	ND (0.0089)		8260B Low		1	05/13/19 17:30	C9E0195	CE91320
Xylenes (Total)	ND (0.0089)		8260B Low		1	05/13/19 17:30		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	117 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	94 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	108 %		70-130
<i>Surrogate: Toluene-d8</i>	98 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 19.5

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/8/19 16:38

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1221	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1232	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1242	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1248	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1254	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1260	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1262	ND (0.07)		8082A		1	05/11/19 4:31		CE90807
Aroclor 1268	ND (0.07)		8082A		1	05/11/19 4:31		CE90807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	86 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	87 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	88 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 14.5

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
1,2-Dichlorobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
1,3-Dichlorobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
1,4-Dichlorobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,4,5-Trichlorophenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,4,6-Trichlorophenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,4-Dichlorophenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,4-Dimethylphenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,4-Dinitrophenol	ND (2.46)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,4-Dinitrotoluene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2,6-Dinitrotoluene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2-Chloronaphthalene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2-Chlorophenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2-Methylnaphthalene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2-Methylphenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
2-Nitrophenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
3,3'-Dichlorobenzidine	ND (0.983)		8270D		1	05/09/19 17:38	C9E0138	CE90809
3+4-Methylphenol	ND (0.983)		8270D		1	05/09/19 17:38	C9E0138	CE90809
4-Bromophenyl-phenylether	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
4-Chloroaniline	ND (0.983)		8270D		1	05/09/19 17:38	C9E0138	CE90809
4-Nitrophenol	ND (2.46)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Acenaphthene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Acenaphthylene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Acetophenone	ND (0.983)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Aniline	ND (2.46)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Anthracene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Azobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Benzo(a)anthracene	0.591 (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Benzo(a)pyrene	0.470 (0.246)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Benzo(b)fluoranthene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Benzo(g,h,i)perylene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Benzo(k)fluoranthene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 14.5

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
bis(2-Chloroethyl)ether	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
bis(2-chloroisopropyl)Ether	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Butylbenzylphthalate	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Chrysene	0.551 (0.246)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Dibenzo(a,h)Anthracene	ND (0.246)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Dibenzofuran	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Diethylphthalate	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Dimethylphthalate	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Di-n-butylphthalate	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Di-n-octylphthalate	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Fluoranthene	1.56 (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Fluorene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Hexachlorobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Hexachlorobutadiene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Hexachloroethane	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Indeno(1,2,3-cd)Pyrene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Isophorone	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Naphthalene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Nitrobenzene	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
N-Nitrosodimethylamine	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Pentachlorophenol	ND (2.46)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Phenanthrene	1.42 (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Phenol	ND (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809
Pyrene	1.12 (0.491)		8270D		1	05/09/19 17:38	C9E0138	CE90809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	70 %		30-130
Surrogate: 2,4,6-Tribromophenol	76 %		30-130
Surrogate: 2-Chlorophenol-d4	70 %		30-130
Surrogate: 2-Fluorobiphenyl	69 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 14.5

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		67 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		66 %		30-130				
<i>Surrogate: Phenol-d6</i>		66 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		68 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-5 3-24 in

Date Sampled: 05/06/19 13:50

Percent Solids: 70

Initial Volume: 25.9

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-05

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/8/19 14:25

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (20.6)		MADEP-EPH		1	CAD	05/09/19 23:27	C9E0133	CE90804
C19-C36 Aliphatics1	31.0 (20.6)		MADEP-EPH		1	CAD	05/09/19 23:27	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	38.0 (20.6)		EPH8270		1	VSC	05/11/19 0:50	C9E0161	CE90804
C11-C22 Aromatics1,2	38.0 (20.6)		EPH8270			VSC	05/11/19 0:50		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	49 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	116 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	115 %		40-140
<i>Surrogate: O-Terphenyl</i>	69 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.37)		6010C		1	KJK	05/10/19 20:34	2.29	100	CE90967
Arsenic	ND (2.69)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Barium	48.0 (2.69)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Beryllium	0.30 (0.12)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Cadmium	ND (0.54)		6010C		1	KJK	05/10/19 20:34	2.29	100	CE90967
Chromium	16.1 (1.07)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Lead	202 (5.37)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Mercury	0.371 (0.034)		7471B		1	MKS	05/10/19 9:33	0.72	40	CE90968
Nickel	9.56 (2.69)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Selenium	ND (5.37)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Silver	ND (0.54)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Thallium	ND (5.37)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Vanadium	16.5 (1.07)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967
Zinc	132 (2.69)		6010C		1	KJK	05/10/19 5:54	2.29	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 7.3

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0017)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
1,4-Dioxane	ND (0.0843)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
2-Butanone	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
2-Chlorotoluene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
2-Hexanone	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
4-Chlorotoluene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Acetone	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Benzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Bromobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Bromochloromethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 7.3

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Bromoform	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Bromomethane	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Carbon Disulfide	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Chlorobenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Chloroethane	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Chloroform	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Chloromethane	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Dibromochloromethane	ND (0.0017)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Dibromomethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Diethyl Ether	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Di-isopropyl ether	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Ethylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Isopropylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Methylene Chloride	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Naphthalene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
n-Butylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
n-Propylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
sec-Butylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Styrene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
tert-Butylbenzene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Tetrachloroethene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Tetrahydrofuran	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Toluene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 7.3

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Trichloroethene	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Vinyl Chloride	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Xylene O	ND (0.0042)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Xylene P,M	ND (0.0084)		8260B Low		1	05/13/19 17:56	C9E0195	CE91320
Xylenes (Total)	ND (0.0084)		8260B Low		1	05/13/19 17:56		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		92 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		108 %		70-130				
<i>Surrogate: Toluene-d8</i>		101 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 20

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1254	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1260	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 13:38		CE91306
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 13:38		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	62 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	58 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	22 %	SC	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	29 %	SC	30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 15.7

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
1,2-Dichlorobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
1,3-Dichlorobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
1,4-Dichlorobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,4,5-Trichlorophenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,4,6-Trichlorophenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,4-Dichlorophenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,4-Dimethylphenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,4-Dinitrophenol	ND (1.96)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,4-Dinitrotoluene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2,6-Dinitrotoluene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2-Chloronaphthalene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2-Chlorophenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2-Methylnaphthalene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2-Methylphenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
2-Nitrophenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
3,3'-Dichlorobenzidine	ND (0.784)		8270D		1	05/09/19 18:04	C9E0138	CE90809
3+4-Methylphenol	ND (0.784)		8270D		1	05/09/19 18:04	C9E0138	CE90809
4-Bromophenyl-phenylether	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
4-Chloroaniline	ND (0.784)		8270D		1	05/09/19 18:04	C9E0138	CE90809
4-Nitrophenol	ND (1.96)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Acenaphthene	0.524 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Acenaphthylene	4.39 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Acetophenone	ND (0.784)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Aniline	ND (1.96)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Anthracene	3.83 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Azobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Benzo(a)anthracene	15.1 (3.91)		8270D		10	05/13/19 16:58	C9E0138	CE90809
Benzo(a)pyrene	15.7 (1.96)		8270D		10	05/13/19 16:58	C9E0138	CE90809
Benzo(b)fluoranthene	19.0 (3.91)		8270D		10	05/13/19 16:58	C9E0138	CE90809
Benzo(g,h,i)perylene	8.60 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Benzo(k)fluoranthene	14.0 (3.91)		8270D		10	05/13/19 16:58	C9E0138	CE90809



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 15.7

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
bis(2-Chloroethyl)ether	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
bis(2-chloroisopropyl)Ether	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Butylbenzylphthalate	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Chrysene	19.6 (1.96)		8270D		10	05/13/19 16:58	C9E0138	CE90809
Dibenzo(a,h)Anthracene	5.08 (0.196)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Dibenzofuran	0.524 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Diethylphthalate	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Dimethylphthalate	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Di-n-butylphthalate	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Di-n-octylphthalate	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Fluoranthene	41.2 (3.91)		8270D		10	05/13/19 16:58	C9E0138	CE90809
Fluorene	0.887 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Hexachlorobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Hexachlorobutadiene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Hexachloroethane	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Indeno(1,2,3-ed)Pyrene	8.49 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Isophorone	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Naphthalene	0.417 (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Nitrobenzene	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
N-Nitrosodimethylamine	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Pentachlorophenol	ND (1.96)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Phenanthrene	19.0 (3.91)		8270D		10	05/13/19 16:58	C9E0138	CE90809
Phenol	ND (0.391)		8270D		1	05/09/19 18:04	C9E0138	CE90809
Pyrene	35.0 (3.91)		8270D		10	05/13/19 16:58	C9E0138	CE90809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2,4,6-Tribromophenol	96 %		30-130
Surrogate: 2-Chlorophenol-d4	76 %		30-130
Surrogate: 2-Fluorobiphenyl	77 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 15.7

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/8/19 12:11

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		71 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		68 %		30-130				
<i>Surrogate: Phenol-d6</i>		79 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		86 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 24.4

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/8/19 14:25

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (18.9)		MADEP-EPH		1	CAD	05/10/19 0:14	C9E0133	CE90804
C19-C36 Aliphatics1	19.3 (18.9)		MADEP-EPH		1	CAD	05/10/19 0:14	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	318 (18.9)		EPH8270		1	VSC	05/11/19 1:27	C9E0161	CE90804
C11-C22 Aromatics1,2	185 (18.9)		EPH8270			ZLC	05/11/19 1:27		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	52 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	113 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	107 %		40-140
<i>Surrogate: O-Terphenyl</i>	70 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-7 11-18 in

Date Sampled: 05/06/19 15:00

Percent Solids: 81

Initial Volume: 19.2

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905226

ESS Laboratory Sample ID: 1905226-06RE1

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/8/19 16:38

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1221	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1232	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1242	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1248	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1254	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1260	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1262	ND (0.06)		8082A		1	05/11/19 4:50		CE90807
Aroclor 1268	ND (0.06)		8082A		1	05/11/19 4:50		CE90807

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	11 %	SC	30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	14 %	SC	30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	5 %	SC	30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	6 %	SC	30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch CE90967 - 3050B

Blank

Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	5.00	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							

LCS

Antimony	39.6	18.5	mg/kg wet	42.40	93	80-120				
Arsenic	118	9.26	mg/kg wet	128.0	92	85-114				
Barium	518	9.26	mg/kg wet	536.0	97	82-118				
Beryllium	216	0.41	mg/kg wet	217.0	100	84-116				
Cadmium	91.2	1.85	mg/kg wet	99.00	92	87-113				
Chromium	118	3.70	mg/kg wet	116.0	102	82-118				
Lead	288	18.5	mg/kg wet	277.0	104	84-116				
Nickel	111	9.26	mg/kg wet	107.0	104	84-117				
Selenium	227	18.5	mg/kg wet	242.0	94	80-120				
Silver	63.5	1.85	mg/kg wet	64.30	99	86-114				
Thallium	199	18.5	mg/kg wet	183.0	109	80-120				
Vanadium	153	3.70	mg/kg wet	146.0	105	86-114				
Zinc	553	9.26	mg/kg wet	561.0	99	86-114				

LCS Dup

Antimony	37.4	18.2	mg/kg wet	42.40	88	80-120	6	20		
Arsenic	114	9.09	mg/kg wet	128.0	89	85-114	3	20		
Barium	523	9.09	mg/kg wet	536.0	98	82-118	0.9	20		
Beryllium	210	0.40	mg/kg wet	217.0	97	84-116	3	20		
Cadmium	85.9	1.82	mg/kg wet	99.00	87	87-113	6	20		
Chromium	116	3.64	mg/kg wet	116.0	100	82-118	2	20		
Lead	281	18.2	mg/kg wet	277.0	102	84-116	2	20		
Nickel	110	9.09	mg/kg wet	107.0	102	84-117	1	20		
Selenium	223	18.2	mg/kg wet	242.0	92	80-120	2	20		
Silver	63.2	1.82	mg/kg wet	64.30	98	86-114	0.6	20		
Thallium	192	18.2	mg/kg wet	183.0	105	80-120	4	20		
Vanadium	149	3.64	mg/kg wet	146.0	102	86-114	3	20		
Zinc	534	9.09	mg/kg wet	561.0	95	86-114	3	20		

Batch CE90968 - 7471B

Blank



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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Total Metals

Batch CE90968 - 7471B

Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	3.64	0.354	mg/kg wet	4.850		75	50-103			
LCS Dup										
Mercury	3.52	0.381	mg/kg wet	4.850		73	50-103	3	20	

5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0505</i>		mg/kg wet	<i>0.05000</i>		<i>101</i>		<i>70-130</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0471</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>		<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0491</i>		mg/kg wet	<i>0.05000</i>		<i>98</i>		<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0494</i>		mg/kg wet	<i>0.05000</i>		<i>99</i>		<i>70-130</i>		

LCS

1,1,1,2-Tetrachloroethane	0.0488	0.0050	mg/kg wet	0.05000	98	70-130
1,1,1-Trichloroethane	0.0512	0.0050	mg/kg wet	0.05000	102	70-130
1,1,2,2-Tetrachloroethane	0.0429	0.0020	mg/kg wet	0.05000	86	70-130
1,1,2-Trichloroethane	0.0489	0.0050	mg/kg wet	0.05000	98	70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

1,1-Dichloroethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,1-Dichloroethene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,1-Dichloropropene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,3-Trichlorobenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,3-Trichloropropane	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,4-Trichlorobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,2,4-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dibromo-3-Chloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dibromoethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dichloroethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,3,5-Trimethylbenzene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,3-Dichlorobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dioxane	0.880	0.100	mg/kg wet	1.000		88	70-130			
2,2-Dichloropropane	0.0555	0.0050	mg/kg wet	0.05000		111	70-130			
2-Butanone	0.238	0.0100	mg/kg wet	0.2500		95	70-130			
2-Chlorotoluene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
2-Hexanone	0.224	0.0100	mg/kg wet	0.2500		90	70-130			
4-Chlorotoluene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
4-Methyl-2-Pentanone	0.248	0.0100	mg/kg wet	0.2500		99	70-130			
Acetone	0.238	0.0100	mg/kg wet	0.2500		95	70-130			
Benzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Bromobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Bromochloromethane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Bromodichloromethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
Bromoform	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Bromomethane	0.0507	0.0100	mg/kg wet	0.05000		101	70-130			
Carbon Disulfide	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
Carbon Tetrachloride	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Chlorobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Chloroethane	0.0495	0.0100	mg/kg wet	0.05000		99	70-130			
Chloroform	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Chloromethane	0.0515	0.0100	mg/kg wet	0.05000		103	70-130			
cis-1,2-Dichloroethene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
cis-1,3-Dichloropropene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Dibromochloromethane	0.0474	0.0020	mg/kg wet	0.05000		95	70-130			
Dibromomethane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
Dichlorodifluoromethane	0.0519	0.0100	mg/kg wet	0.05000		104	70-130			
Diethyl Ether	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
Di-isopropyl ether	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Ethyl tertiary-butyl ether	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Ethylbenzene	0.0506	0.0050	mg/kg wet	0.05000	101	70-130				
Hexachlorobutadiene	0.0497	0.0050	mg/kg wet	0.05000	99	70-130				
Isopropylbenzene	0.0509	0.0050	mg/kg wet	0.05000	102	70-130				
Methyl tert-Butyl Ether	0.0514	0.0050	mg/kg wet	0.05000	103	70-130				
Methylene Chloride	0.0483	0.0100	mg/kg wet	0.05000	97	70-130				
Naphthalene	0.0502	0.0050	mg/kg wet	0.05000	100	70-130				
n-Butylbenzene	0.0535	0.0050	mg/kg wet	0.05000	107	70-130				
n-Propylbenzene	0.0513	0.0050	mg/kg wet	0.05000	103	70-130				
sec-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000	101	70-130				
Styrene	0.0506	0.0050	mg/kg wet	0.05000	101	70-130				
tert-Butylbenzene	0.0507	0.0050	mg/kg wet	0.05000	101	70-130				
Tertiary-amyl methyl ether	0.0509	0.0050	mg/kg wet	0.05000	102	70-130				
Tetrachloroethene	0.0482	0.0050	mg/kg wet	0.05000	96	70-130				
Tetrahydrofuran	0.0485	0.0050	mg/kg wet	0.05000	97	70-130				
Toluene	0.0503	0.0050	mg/kg wet	0.05000	101	70-130				
trans-1,2-Dichloroethene	0.0517	0.0050	mg/kg wet	0.05000	103	70-130				
trans-1,3-Dichloropropene	0.0526	0.0050	mg/kg wet	0.05000	105	70-130				
Trichloroethene	0.0511	0.0050	mg/kg wet	0.05000	102	70-130				
Trichlorofluoromethane	0.0523	0.0050	mg/kg wet	0.05000	105	70-130				
Vinyl Chloride	0.0496	0.0100	mg/kg wet	0.05000	99	70-130				
Xylene O	0.0486	0.0050	mg/kg wet	0.05000	97	70-130				
Xylene P,M	0.0997	0.0100	mg/kg wet	0.1000	100	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0478</i>		mg/kg wet	<i>0.05000</i>	<i>96</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0492</i>		mg/kg wet	<i>0.05000</i>	<i>98</i>	<i>70-130</i>				
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0496</i>		mg/kg wet	<i>0.05000</i>	<i>99</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0493</i>		mg/kg wet	<i>0.05000</i>	<i>99</i>	<i>70-130</i>				

LCS Dup

1,1,1,2-Tetrachloroethane	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	4	20		
1,1,1-Trichloroethane	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	3	20		
1,1,2,2-Tetrachloroethane	0.0451	0.0020	mg/kg wet	0.05000	90	70-130	5	20		
1,1,2-Trichloroethane	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	4	20		
1,1-Dichloroethane	0.0519	0.0050	mg/kg wet	0.05000	104	70-130	3	20		
1,1-Dichloroethene	0.0571	0.0050	mg/kg wet	0.05000	114	70-130	5	20		
1,1-Dichloropropene	0.0557	0.0050	mg/kg wet	0.05000	111	70-130	3	20		
1,2,3-Trichlorobenzene	0.0530	0.0050	mg/kg wet	0.05000	106	70-130	6	20		
1,2,3-Trichloropropane	0.0491	0.0050	mg/kg wet	0.05000	98	70-130	5	20		
1,2,4-Trichlorobenzene	0.0562	0.0050	mg/kg wet	0.05000	112	70-130	7	20		
1,2,4-Trimethylbenzene	0.0544	0.0050	mg/kg wet	0.05000	109	70-130	5	20		
1,2-Dibromo-3-Chloropropane	0.0477	0.0050	mg/kg wet	0.05000	95	70-130	4	20		
1,2-Dibromoethane	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	7	20		
1,2-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000	100	70-130	5	20		
1,2-Dichloroethane	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	4	20		
1,2-Dichloropropane	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	5	20		
1,3,5-Trimethylbenzene	0.0531	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
1,3-Dichlorobenzene	0.0499	0.0050	mg/kg wet	0.05000	100	70-130	3	20		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

1,3-Dichloropropane	0.0524	0.0050	mg/kg wet	0.05000	105	70-130	6	20		
1,4-Dichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000	101	70-130	5	20		
1,4-Dioxane	0.935	0.100	mg/kg wet	1.000	94	70-130	6	20		
2,2-Dichloropropane	0.0569	0.0050	mg/kg wet	0.05000	114	70-130	2	20		
2-Butanone	0.249	0.0100	mg/kg wet	0.2500	100	70-130	4	20		
2-Chlorotoluene	0.0506	0.0050	mg/kg wet	0.05000	101	70-130	3	20		
2-Hexanone	0.237	0.0100	mg/kg wet	0.2500	95	70-130	6	20		
4-Chlorotoluene	0.0517	0.0050	mg/kg wet	0.05000	103	70-130	4	20		
4-Isopropyltoluene	0.0526	0.0050	mg/kg wet	0.05000	105	70-130	5	20		
4-Methyl-2-Pentanone	0.263	0.0100	mg/kg wet	0.2500	105	70-130	6	20		
Acetone	0.249	0.0100	mg/kg wet	0.2500	100	70-130	4	20		
Benzene	0.0522	0.0050	mg/kg wet	0.05000	104	70-130	3	20		
Bromobenzene	0.0514	0.0050	mg/kg wet	0.05000	103	70-130	4	20		
Bromochloromethane	0.0509	0.0050	mg/kg wet	0.05000	102	70-130	4	20		
Bromodichloromethane	0.0532	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Bromoform	0.0504	0.0050	mg/kg wet	0.05000	101	70-130	6	20		
Bromomethane	0.0514	0.0100	mg/kg wet	0.05000	103	70-130	1	20		
Carbon Disulfide	0.0559	0.0050	mg/kg wet	0.05000	112	70-130	3	20		
Carbon Tetrachloride	0.0531	0.0050	mg/kg wet	0.05000	106	70-130	3	20		
Chlorobenzene	0.0496	0.0050	mg/kg wet	0.05000	99	70-130	5	20		
Chloroethane	0.0512	0.0100	mg/kg wet	0.05000	102	70-130	3	20		
Chloroform	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	3	20		
Chloromethane	0.0533	0.0100	mg/kg wet	0.05000	107	70-130	4	20		
cis-1,2-Dichloroethene	0.0547	0.0050	mg/kg wet	0.05000	109	70-130	4	20		
cis-1,3-Dichloropropene	0.0569	0.0050	mg/kg wet	0.05000	114	70-130	5	20		
Dibromochloromethane	0.0500	0.0020	mg/kg wet	0.05000	100	70-130	5	20		
Dibromomethane	0.0516	0.0050	mg/kg wet	0.05000	103	70-130	4	20		
Dichlorodifluoromethane	0.0526	0.0100	mg/kg wet	0.05000	105	70-130	1	20		
Diethyl Ether	0.0548	0.0050	mg/kg wet	0.05000	110	70-130	5	20		
Di-isopropyl ether	0.0532	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Ethyl tertiary-butyl ether	0.0506	0.0050	mg/kg wet	0.05000	101	70-130	5	20		
Ethylbenzene	0.0533	0.0050	mg/kg wet	0.05000	107	70-130	5	20		
Hexachlorobutadiene	0.0522	0.0050	mg/kg wet	0.05000	104	70-130	5	20		
Isopropylbenzene	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Methyl tert-Butyl Ether	0.0546	0.0050	mg/kg wet	0.05000	109	70-130	6	20		
Methylene Chloride	0.0507	0.0100	mg/kg wet	0.05000	101	70-130	5	20		
Naphthalene	0.0548	0.0050	mg/kg wet	0.05000	110	70-130	9	20		
n-Butylbenzene	0.0565	0.0050	mg/kg wet	0.05000	113	70-130	5	20		
n-Propylbenzene	0.0524	0.0050	mg/kg wet	0.05000	105	70-130	2	20		
sec-Butylbenzene	0.0516	0.0050	mg/kg wet	0.05000	103	70-130	3	20		
Styrene	0.0539	0.0050	mg/kg wet	0.05000	108	70-130	6	20		
tert-Butylbenzene	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Tertiary-amyl methyl ether	0.0537	0.0050	mg/kg wet	0.05000	107	70-130	6	20		
Tetrachloroethene	0.0498	0.0050	mg/kg wet	0.05000	100	70-130	3	20		
Tetrahydrofuran	0.0502	0.0050	mg/kg wet	0.05000	100	70-130	3	20		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Toluene	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	3	20
trans-1,2-Dichloroethene	0.0533	0.0050	mg/kg wet	0.05000	107	70-130	3	20
trans-1,3-Dichloropropene	0.0550	0.0050	mg/kg wet	0.05000	110	70-130	5	20
Trichloroethene	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	3	20
Trichlorofluoromethane	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	3	20
Vinyl Chloride	0.0510	0.0100	mg/kg wet	0.05000	102	70-130	3	20
Xylene O	0.0512	0.0050	mg/kg wet	0.05000	102	70-130	5	20
Xylene P,M	0.105	0.0100	mg/kg wet	0.1000	105	70-130	5	20
Surrogate: 1,2-Dichloroethane-d4	0.0477		mg/kg wet	0.05000	95	70-130		
Surrogate: 4-Bromofluorobenzene	0.0498		mg/kg wet	0.05000	100	70-130		
Surrogate: Dibromofluoromethane	0.0494		mg/kg wet	0.05000	99	70-130		
Surrogate: Toluene-d8	0.0498		mg/kg wet	0.05000	100	70-130		

8082A Polychlorinated Biphenyls (PCB)

Batch CE90807 - 3540C

Blank

Aroclor 1016

ND 0.02 mg/kg wet

Aroclor 1016 [2C]

ND 0.02 mg/kg wet

Aroclor 1221

ND 0.02 mg/kg wet

Aroclor 1221 [2C]

ND 0.02 mg/kg wet

Aroclor 1232

ND 0.02 mg/kg wet

Aroclor 1232 [2C]

ND 0.02 mg/kg wet

Aroclor 1242

ND 0.02 mg/kg wet

Aroclor 1242 [2C]

ND 0.02 mg/kg wet

Aroclor 1248

ND 0.02 mg/kg wet

Aroclor 1248 [2C]

ND 0.02 mg/kg wet

Aroclor 1254

ND 0.02 mg/kg wet

Aroclor 1254 [2C]

ND 0.02 mg/kg wet

Aroclor 1260

ND 0.02 mg/kg wet

Aroclor 1260 [2C]

ND 0.02 mg/kg wet

Aroclor 1262

ND 0.02 mg/kg wet

Aroclor 1262 [2C]

ND 0.02 mg/kg wet

Aroclor 1268

ND 0.02 mg/kg wet

Aroclor 1268 [2C]

ND 0.02 mg/kg wet

Surrogate: Decachlorobiphenyl

0.0191 mg/kg wet 0.02500 76 30-150

Surrogate: Decachlorobiphenyl [2C]

0.0192 mg/kg wet 0.02500 77 30-150

Surrogate: Tetrachloro-m-xylene

0.0159 mg/kg wet 0.02500 63 30-150

Surrogate: Tetrachloro-m-xylene [2C]

0.0189 mg/kg wet 0.02500 76 30-150

LCS

Aroclor 1016

0.4 0.02 mg/kg wet 0.5000 90 40-140

Aroclor 1016 [2C]

0.5 0.02 mg/kg wet 0.5000 101 40-140

Aroclor 1260

0.4 0.02 mg/kg wet 0.5000 83 40-140

Aroclor 1260 [2C]

0.5 0.02 mg/kg wet 0.5000 98 40-140



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8082A Polychlorinated Biphenyls (PCB)

Batch CE90807 - 3540C

Surrogate: Decachlorobiphenyl	0.0214	mg/kg wet	0.02500	85	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0219	mg/kg wet	0.02500	88	30-150
Surrogate: Tetrachloro-m-xylene	0.0192	mg/kg wet	0.02500	77	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0216	mg/kg wet	0.02500	86	30-150

LCS Dup

Aroclor 1016	0.5	0.02	mg/kg wet	0.5000	92	40-140	2	30
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000	104	40-140	2	30
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000	86	40-140	3	30
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000	101	40-140	3	30

Surrogate: Decachlorobiphenyl	0.0220	mg/kg wet	0.02500	88	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0226	mg/kg wet	0.02500	90	30-150
Surrogate: Tetrachloro-m-xylene	0.0202	mg/kg wet	0.02500	81	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0227	mg/kg wet	0.02500	91	30-150

Batch CE91306 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet
Aroclor 1016 [2C]	ND	0.02	mg/kg wet
Aroclor 1221	ND	0.02	mg/kg wet
Aroclor 1221 [2C]	ND	0.02	mg/kg wet
Aroclor 1232	ND	0.02	mg/kg wet
Aroclor 1232 [2C]	ND	0.02	mg/kg wet
Aroclor 1242	ND	0.02	mg/kg wet
Aroclor 1242 [2C]	ND	0.02	mg/kg wet
Aroclor 1248	ND	0.02	mg/kg wet
Aroclor 1248 [2C]	ND	0.02	mg/kg wet
Aroclor 1254	ND	0.02	mg/kg wet
Aroclor 1254 [2C]	ND	0.02	mg/kg wet
Aroclor 1260	ND	0.02	mg/kg wet
Aroclor 1260 [2C]	ND	0.02	mg/kg wet
Aroclor 1262	ND	0.02	mg/kg wet
Aroclor 1262 [2C]	ND	0.02	mg/kg wet
Aroclor 1268	ND	0.02	mg/kg wet
Aroclor 1268 [2C]	ND	0.02	mg/kg wet

Surrogate: Decachlorobiphenyl	0.0234	mg/kg wet	0.02500	93	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0223	mg/kg wet	0.02500	89	30-150
Surrogate: Tetrachloro-m-xylene	0.0199	mg/kg wet	0.02500	80	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0215	mg/kg wet	0.02500	86	30-150

LCS

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000	104	40-140
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000	101	40-140
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000	96	40-140
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000	97	40-140



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch CE91306 - 3540C

Surrogate: Decachlorobiphenyl	0.0242	mg/kg wet	0.02500	97	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0228	mg/kg wet	0.02500	91	30-150
Surrogate: Tetrachloro-m-xylene	0.0214	mg/kg wet	0.02500	86	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0218	mg/kg wet	0.02500	87	30-150

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000	101	40-140	3	30
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000	98	40-140	2	30
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000	95	40-140	1	30
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000	95	40-140	2	30

Surrogate: Decachlorobiphenyl	0.0241	mg/kg wet	0.02500	96	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0226	mg/kg wet	0.02500	90	30-150
Surrogate: Tetrachloro-m-xylene	0.0212	mg/kg wet	0.02500	85	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0215	mg/kg wet	0.02500	86	30-150

8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg wet							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.333	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.333	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.15		mg/kg wet	3.333		64	30-130			
Surrogate: 2,4,6-Tribromophenol	4.26		mg/kg wet	5.000		85	30-130			
Surrogate: 2-Chlorophenol-d4	3.28		mg/kg wet	5.000		66	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/kg wet	3.333		68	30-130			
Surrogate: 2-Fluorophenol	3.44		mg/kg wet	5.000		69	30-130			
Surrogate: Nitrobenzene-d5	2.15		mg/kg wet	3.333		64	30-130			
Surrogate: Phenol-d6	3.35		mg/kg wet	5.000		67	30-130			
Surrogate: p-Terphenyl-d14	2.97		mg/kg wet	3.333		89	30-130			

LCS

1,2,4-Trichlorobenzene	2.48	0.333	mg/kg wet	3.333		74	40-140
1,2-Dichlorobenzene	2.39	0.333	mg/kg wet	3.333		72	40-140
1,3-Dichlorobenzene	2.35	0.333	mg/kg wet	3.333		71	40-140
1,4-Dichlorobenzene	2.32	0.333	mg/kg wet	3.333		70	40-140



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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

2,4,5-Trichlorophenol	2.80	0.333	mg/kg wet	3.333	84	30-130
2,4,6-Trichlorophenol	2.70	0.333	mg/kg wet	3.333	81	30-130
2,4-Dichlorophenol	2.70	0.333	mg/kg wet	3.333	81	30-130
2,4-Dimethylphenol	2.45	0.333	mg/kg wet	3.333	74	30-130
2,4-Dinitrophenol	2.14	1.67	mg/kg wet	3.333	64	30-130
2,4-Dinitrotoluene	3.17	0.333	mg/kg wet	3.333	95	40-140
2,6-Dinitrotoluene	2.85	0.333	mg/kg wet	3.333	86	40-140
2-Chloronaphthalene	2.36	0.333	mg/kg wet	3.333	71	40-140
2-Chlorophenol	2.37	0.333	mg/kg wet	3.333	71	30-130
2-Methylnaphthalene	2.37	0.333	mg/kg wet	3.333	71	40-140
2-Methylphenol	2.46	0.333	mg/kg wet	3.333	74	30-130
2-Nitrophenol	2.31	0.333	mg/kg wet	3.333	69	30-130
3,3'-Dichlorobenzidine	2.11	0.667	mg/kg wet	3.333	63	40-140
3+4-Methylphenol	5.09	0.667	mg/kg wet	6.667	76	30-130
4-Bromophenyl-phenylether	2.88	0.333	mg/kg wet	3.333	87	40-140
4-Chloroaniline	2.02	0.667	mg/kg wet	3.333	61	40-140
4-Nitrophenol	2.75	1.67	mg/kg wet	3.333	83	30-130
Acenaphthene	2.43	0.333	mg/kg wet	3.333	73	40-140
Acenaphthylene	2.50	0.333	mg/kg wet	3.333	75	40-140
Acetophenone	2.31	0.667	mg/kg wet	3.333	69	40-140
Aniline	2.10	1.67	mg/kg wet	3.333	63	40-140
Anthracene	2.84	0.333	mg/kg wet	3.333	85	40-140
Azobenzene	2.65	0.333	mg/kg wet	3.333	79	40-140
Benzo(a)anthracene	3.09	0.333	mg/kg wet	3.333	93	40-140
Benzo(a)pyrene	2.98	0.167	mg/kg wet	3.333	90	40-140
Benzo(b)fluoranthene	3.13	0.333	mg/kg wet	3.333	94	40-140
Benzo(g,h,i)perylene	3.04	0.333	mg/kg wet	3.333	91	40-140
Benzo(k)fluoranthene	2.97	0.333	mg/kg wet	3.333	89	40-140
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333	72	40-140
bis(2-Chloroethyl)ether	2.37	0.333	mg/kg wet	3.333	71	40-140
bis(2-chloroisopropyl)Ether	2.27	0.333	mg/kg wet	3.333	68	40-140
bis(2-Ethylhexyl)phthalate	3.27	0.333	mg/kg wet	3.333	98	40-140
Butylbenzylphthalate	3.32	0.333	mg/kg wet	3.333	100	40-140
Chrysene	2.98	0.167	mg/kg wet	3.333	89	40-140
Dibenzo(a,h)Anthracene	3.07	0.167	mg/kg wet	3.333	92	40-140
Dibenzofuran	2.54	0.333	mg/kg wet	3.333	76	40-140
Diethylphthalate	3.06	0.333	mg/kg wet	3.333	92	40-140
Dimethylphthalate	2.93	0.333	mg/kg wet	3.333	88	40-140
Di-n-butylphthalate	3.40	0.333	mg/kg wet	3.333	102	40-140
Di-n-octylphthalate	3.23	0.333	mg/kg wet	3.333	97	40-140
Fluoranthene	3.01	0.333	mg/kg wet	3.333	90	40-140
Fluorene	2.72	0.333	mg/kg wet	3.333	82	40-140
Hexachlorobenzene	2.87	0.333	mg/kg wet	3.333	86	40-140
Hexachlorobutadiene	2.42	0.333	mg/kg wet	3.333	72	40-140
Hexachloroethane	2.23	0.333	mg/kg wet	3.333	67	40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Indeno(1,2,3-cd)Pyrene	3.04	0.333	mg/kg wet	3.333	91	40-140				
Isophorone	2.14	0.333	mg/kg wet	3.333	64	40-140				
Naphthalene	2.41	0.333	mg/kg wet	3.333	72	40-140				
Nitrobenzene	2.28	0.333	mg/kg wet	3.333	68	40-140				
N-Nitrosodimethylamine	2.20	0.333	mg/kg wet	3.333	66	40-140				
Pentachlorophenol	3.06	1.67	mg/kg wet	3.333	92	30-130				
Phenanthrene	2.79	0.333	mg/kg wet	3.333	84	40-140				
Phenol	2.44	0.333	mg/kg wet	3.333	73	30-130				
Pyrene	3.01	0.333	mg/kg wet	3.333	90	40-140				
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.37		mg/kg wet	3.333	71	30-130				
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.74		mg/kg wet	5.000	95	30-130				
<i>Surrogate: 2-Chlorophenol-d4</i>	3.85		mg/kg wet	5.000	77	30-130				
<i>Surrogate: 2-Fluorobiphenyl</i>	2.58		mg/kg wet	3.333	77	30-130				
<i>Surrogate: 2-Fluorophenol</i>	3.79		mg/kg wet	5.000	76	30-130				
<i>Surrogate: Nitrobenzene-d5</i>	2.43		mg/kg wet	3.333	73	30-130				
<i>Surrogate: Phenol-d6</i>	3.88		mg/kg wet	5.000	78	30-130				
<i>Surrogate: p-Terphenyl-d14</i>	3.22		mg/kg wet	3.333	97	30-130				

LCS Dup

1,2,4-Trichlorobenzene	2.39	0.333	mg/kg wet	3.333	72	40-140	4	30		
1,2-Dichlorobenzene	2.29	0.333	mg/kg wet	3.333	69	40-140	4	30		
1,3-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333	65	40-140	8	30		
1,4-Dichlorobenzene	2.20	0.333	mg/kg wet	3.333	66	40-140	5	30		
2,4,5-Trichlorophenol	2.66	0.333	mg/kg wet	3.333	80	30-130	5	30		
2,4,6-Trichlorophenol	2.59	0.333	mg/kg wet	3.333	78	30-130	4	30		
2,4-Dichlorophenol	2.51	0.333	mg/kg wet	3.333	75	30-130	7	30		
2,4-Dimethylphenol	2.32	0.333	mg/kg wet	3.333	70	30-130	6	30		
2,4-Dinitrophenol	2.22	1.67	mg/kg wet	3.333	66	30-130	4	30		
2,4-Dinitrotoluene	3.10	0.333	mg/kg wet	3.333	93	40-140	2	30		
2,6-Dinitrotoluene	2.74	0.333	mg/kg wet	3.333	82	40-140	4	30		
2-Chloronaphthalene	2.23	0.333	mg/kg wet	3.333	67	40-140	6	30		
2-Chlorophenol	2.17	0.333	mg/kg wet	3.333	65	30-130	9	30		
2-Methylnaphthalene	2.24	0.333	mg/kg wet	3.333	67	40-140	6	30		
2-Methylphenol	2.23	0.333	mg/kg wet	3.333	67	30-130	10	30		
2-Nitrophenol	2.20	0.333	mg/kg wet	3.333	66	30-130	5	30		
3,3'-Dichlorobenzidine	2.16	0.667	mg/kg wet	3.333	65	40-140	2	30		
3+4-Methylphenol	4.66	0.667	mg/kg wet	6.667	70	30-130	9	30		
4-Bromophenyl-phenylether	2.81	0.333	mg/kg wet	3.333	84	40-140	3	30		
4-Chloroaniline	2.12	0.667	mg/kg wet	3.333	64	40-140	5	30		
4-Nitrophenol	2.75	1.67	mg/kg wet	3.333	82	30-130	0.1	30		
Acenaphthene	2.33	0.333	mg/kg wet	3.333	70	40-140	5	30		
Acenaphthylene	2.38	0.333	mg/kg wet	3.333	72	40-140	5	30		
Acetophenone	2.12	0.667	mg/kg wet	3.333	64	40-140	9	30		
Aniline	1.94	1.67	mg/kg wet	3.333	58	40-140	8	30		
Anthracene	2.82	0.333	mg/kg wet	3.333	84	40-140	1	30		
Azobenzene	2.60	0.333	mg/kg wet	3.333	78	40-140	2	30		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Benzo(a)anthracene	3.07	0.333	mg/kg wet	3.333	92	40-140	0.8	30		
Benzo(a)pyrene	2.97	0.167	mg/kg wet	3.333	89	40-140	0.6	30		
Benzo(b)fluoranthene	2.89	0.333	mg/kg wet	3.333	87	40-140	8	30		
Benzo(g,h,i)perylene	3.10	0.333	mg/kg wet	3.333	93	40-140	2	30		
Benzo(k)fluoranthene	3.19	0.333	mg/kg wet	3.333	96	40-140	7	30		
bis(2-Chloroethoxy)methane	2.28	0.333	mg/kg wet	3.333	68	40-140	6	30		
bis(2-Chloroethyl)ether	2.18	0.333	mg/kg wet	3.333	65	40-140	8	30		
bis(2-chloroisopropyl)Ether	2.05	0.333	mg/kg wet	3.333	61	40-140	10	30		
bis(2-Ethylhexyl)phthalate	3.12	0.333	mg/kg wet	3.333	94	40-140	5	30		
Butylbenzylphthalate	3.20	0.333	mg/kg wet	3.333	96	40-140	4	30		
Chrysene	2.95	0.167	mg/kg wet	3.333	88	40-140	1	30		
Dibenzo(a,h)Anthracene	3.08	0.167	mg/kg wet	3.333	92	40-140	0.4	30		
Dibenzofuran	2.43	0.333	mg/kg wet	3.333	73	40-140	5	30		
Diethylphthalate	2.99	0.333	mg/kg wet	3.333	90	40-140	3	30		
Dimethylphthalate	2.82	0.333	mg/kg wet	3.333	85	40-140	4	30		
Di-n-butylphthalate	3.30	0.333	mg/kg wet	3.333	99	40-140	3	30		
Di-n-octylphthalate	3.08	0.333	mg/kg wet	3.333	92	40-140	5	30		
Fluoranthene	2.97	0.333	mg/kg wet	3.333	89	40-140	1	30		
Fluorene	2.63	0.333	mg/kg wet	3.333	79	40-140	4	30		
Hexachlorobenzene	2.82	0.333	mg/kg wet	3.333	85	40-140	2	30		
Hexachlorobutadiene	2.32	0.333	mg/kg wet	3.333	70	40-140	4	30		
Hexachloroethane	2.09	0.333	mg/kg wet	3.333	63	40-140	6	30		
Indeno(1,2,3-cd)Pyrene	3.07	0.333	mg/kg wet	3.333	92	40-140	0.9	30		
Isophorone	2.03	0.333	mg/kg wet	3.333	61	40-140	5	30		
Naphthalene	2.30	0.333	mg/kg wet	3.333	69	40-140	4	30		
Nitrobenzene	2.19	0.333	mg/kg wet	3.333	66	40-140	4	30		
N-Nitrosodimethylamine	2.08	0.333	mg/kg wet	3.333	62	40-140	6	30		
Pentachlorophenol	3.09	1.67	mg/kg wet	3.333	93	30-130	1	30		
Phenanthren	2.76	0.333	mg/kg wet	3.333	83	40-140	0.9	30		
Phenol	2.24	0.333	mg/kg wet	3.333	67	30-130	9	30		
Pyrene	2.93	0.333	mg/kg wet	3.333	88	40-140	2	30		
Surrogate: 1,2-Dichlorobenzene-d4	2.16		mg/kg wet	3.333	65	30-130				
Surrogate: 2,4,6-Tribromophenol	4.49		mg/kg wet	5.000	90	30-130				
Surrogate: 2-Chlorophenol-d4	3.43		mg/kg wet	5.000	69	30-130				
Surrogate: 2-Fluorobiphenyl	2.34		mg/kg wet	3.333	70	30-130				
Surrogate: 2-Fluorophenol	3.39		mg/kg wet	5.000	68	30-130				
Surrogate: Nitrobenzene-d5	2.24		mg/kg wet	3.333	67	30-130				
Surrogate: Phenol-d6	3.45		mg/kg wet	5.000	69	30-130				
Surrogate: p-Terphenyl-d14	2.98		mg/kg wet	3.333	89	30-130				

MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90804 - 3546

Blank

C19-C36 Aliphatics1	ND	15.0	mg/kg wet
C9-C18 Aliphatics1	ND	15.0	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90804 - 3546

Decane (C10)	ND	0.5	mg/kg wet
Docosane (C22)	ND	0.5	mg/kg wet
Dodecane (C12)	ND	0.5	mg/kg wet
Eicosane (C20)	ND	0.5	mg/kg wet
Hexacosane (C26)	ND	0.5	mg/kg wet
Hexadecane (C16)	ND	0.5	mg/kg wet
Hexatricontane (C36)	ND	0.5	mg/kg wet
Nonadecane (C19)	ND	0.5	mg/kg wet
Nonane (C9)	ND	0.5	mg/kg wet
Octacosane (C28)	ND	0.5	mg/kg wet
Octadecane (C18)	ND	0.5	mg/kg wet
Tetracosane (C24)	ND	0.5	mg/kg wet
Tetradecane (C14)	ND	0.5	mg/kg wet
Triacontane (C30)	ND	0.5	mg/kg wet

Surrogate: 1-Chlorooctadecane	1.45	mg/kg wet	2.020	72	40-140
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Blank

2-Methylnaphthalene	ND	0.20	mg/kg wet
Acenaphthene	ND	0.40	mg/kg wet
Acenaphthylene	ND	0.20	mg/kg wet
Anthracene	ND	0.40	mg/kg wet
Benzo(a)anthracene	ND	0.40	mg/kg wet
Benzo(a)pyrene	ND	0.40	mg/kg wet
Benzo(b)fluoranthene	ND	0.40	mg/kg wet
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet
Benzo(k)fluoranthene	ND	0.40	mg/kg wet
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet
Chrysene	ND	0.40	mg/kg wet
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet
Fluoranthene	ND	0.40	mg/kg wet
Fluorene	ND	0.40	mg/kg wet
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet
Naphthalene	ND	0.40	mg/kg wet
Phenanthrene	ND	0.40	mg/kg wet
Pyrene	ND	0.40	mg/kg wet

Surrogate: 2-Bromonaphthalene	53.0	mg/L	50.00	106	40-140
Surrogate: 2-Fluorobiphenyl	50.8	mg/L	50.00	102	40-140
Surrogate: O-Terphenyl	1.56	mg/kg wet	2.008	78	40-140

LCS					
C19-C36 Aliphatics1	16.5	15.0	mg/kg wet	16.00	40-140
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00	40-140
Decane (C10)	0.9	0.5	mg/kg wet	2.000	40-140
Docosane (C22)	1.5	0.5	mg/kg wet	2.000	40-140
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000	40-140
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000	40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90804 - 3546

Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000	73	40-140
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000	71	40-140
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000	81	40-140
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000	72	40-140
Nonane (C9)	0.7	0.5	mg/kg wet	2.000	36	30-140
Octacosane (C28)	1.4	0.5	mg/kg wet	2.000	71	40-140
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000	72	40-140
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000	75	40-140
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000	60	40-140
Triaccontane (C30)	1.4	0.5	mg/kg wet	2.000	71	40-140

Surrogate: 1-Chlorooctadecane	1.53		mg/kg wet	2.020	76	40-140
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LCS

2-Methylnaphthalene	1.54	0.20	mg/kg wet	2.000	77	40-140
Acenaphthene	1.46	0.40	mg/kg wet	2.000	73	40-140
Acenaphthylene	1.45	0.20	mg/kg wet	2.000	73	40-140
Anthracene	1.60	0.40	mg/kg wet	2.000	80	40-140
Benzo(a)anthracene	1.53	0.40	mg/kg wet	2.000	77	40-140
Benzo(a)pyrene	1.47	0.40	mg/kg wet	2.000	74	40-140
Benzo(b)fluoranthene	1.50	0.40	mg/kg wet	2.000	75	40-140
Benzo(g,h,i)perylene	1.59	0.40	mg/kg wet	2.000	79	40-140
Benzo(k)fluoranthene	1.88	0.40	mg/kg wet	2.000	94	40-140
C11-C22 Unadjusted Aromatics1	32.8	15.0	mg/kg wet	34.00	97	40-140
Chrysene	1.84	0.40	mg/kg wet	2.000	92	40-140
Dibenz(a,h)Anthracene	1.57	0.20	mg/kg wet	2.000	79	40-140
Fluoranthene	1.69	0.40	mg/kg wet	2.000	84	40-140
Fluorene	1.49	0.40	mg/kg wet	2.000	74	40-140
Indeno(1,2,3-cd)Pyrene	1.58	0.40	mg/kg wet	2.000	79	40-140
Naphthalene	1.25	0.40	mg/kg wet	2.000	62	40-140
Phenanthrene	1.50	0.40	mg/kg wet	2.000	75	40-140
Pyrene	1.57	0.40	mg/kg wet	2.000	78	40-140

Surrogate: 2-Bromonaphthalene	44.6		mg/L	50.00	89	40-140
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Surrogate: 2-Fluorobiphenyl	53.2		mg/L	50.00	106	40-140
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Surrogate: O-Terphenyl	1.67		mg/kg wet	2.008	83	40-140
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LCS

2-Methylnaphthalene Breakthrough	0.0		%		0-5	
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Naphthalene Breakthrough	0.0		%		0-5	
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LCS Dup						
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C19-C36 Aliphatics1	18.6	15.0	mg/kg wet	16.00	116	40-140	12	25
C9-C18 Aliphatics1	10.0	15.0	mg/kg wet	12.00	84	40-140	9	25
Decane (C10)	1.0	0.5	mg/kg wet	2.000	51	40-140	11	25
Docosane (C22)	1.6	0.5	mg/kg wet	2.000	80	40-140	8	25
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000	58	40-140	10	25
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000	78	40-140	8	25



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE90804 - 3546										
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000	79	40-140	8	25		
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000	77	40-140	8	25		
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000	88	40-140	7	25		
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000	78	40-140	8	25		
Nonane (C9)	0.8	0.5	mg/kg wet	2.000	40	30-140	11	25		
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000	77	40-140	9	25		
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000	78	40-140	7	25		
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000	81	40-140	8	25		
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000	66	40-140	10	25		
Triaccontane (C30)	1.5	0.5	mg/kg wet	2.000	77	40-140	8	25		
<i>Surrogate: 1-Chlorooctadecane</i>	<i>1.62</i>		mg/kg wet	<i>2.020</i>	<i>80</i>	<i>40-140</i>				
LCS Dup										
2-Methylnaphthalene	1.73	0.20	mg/kg wet	2.000	86	40-140	12	30		
Acenaphthene	1.61	0.40	mg/kg wet	2.000	81	40-140	10	30		
Acenaphthylene	1.63	0.20	mg/kg wet	2.000	81	40-140	12	30		
Anthracene	1.77	0.40	mg/kg wet	2.000	89	40-140	10	30		
Benzo(a)anthracene	1.60	0.40	mg/kg wet	2.000	80	40-140	4	30		
Benzo(a)pyrene	1.62	0.40	mg/kg wet	2.000	81	40-140	10	30		
Benzo(b)fluoranthene	1.62	0.40	mg/kg wet	2.000	81	40-140	8	30		
Benzo(g,h,i)perylene	1.72	0.40	mg/kg wet	2.000	86	40-140	8	30		
Benzo(k)fluoranthene	2.00	0.40	mg/kg wet	2.000	100	40-140	6	30		
C11-C22 Unadjusted Aromatics1	35.5	15.0	mg/kg wet	34.00	104	40-140	8	25		
Chrysene	1.95	0.40	mg/kg wet	2.000	98	40-140	6	30		
Dibenzo(a,h)Anthracene	1.70	0.20	mg/kg wet	2.000	85	40-140	8	30		
Fluoranthene	1.80	0.40	mg/kg wet	2.000	90	40-140	7	30		
Fluorene	1.62	0.40	mg/kg wet	2.000	81	40-140	8	30		
Indeno(1,2,3-cd)Pyrene	1.71	0.40	mg/kg wet	2.000	86	40-140	8	30		
Naphthalene	1.41	0.40	mg/kg wet	2.000	70	40-140	12	30		
Phenanthrene	1.63	0.40	mg/kg wet	2.000	82	40-140	8	30		
Pyrene	1.69	0.40	mg/kg wet	2.000	85	40-140	8	30		
<i>Surrogate: 2-Bromonaphthalene</i>	<i>51.0</i>		mg/L	<i>50.00</i>	<i>102</i>	<i>40-140</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>54.1</i>		mg/L	<i>50.00</i>	<i>108</i>	<i>40-140</i>				
<i>Surrogate: O-Terphenyl</i>	<i>1.76</i>		mg/kg wet	<i>2.008</i>	<i>88</i>	<i>40-140</i>				
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5	200		
Naphthalene Breakthrough	0.0		%				0-5	200		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

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Notes and Definitions

U	Analyte included in the analysis, but not detected
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
S-	Surrogate recovery(ies) below lower control limit (S-).
Q	Calibration required quadratic regression (Q).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905226

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Green Environmental, Inc. - TB/HDM</u>	ESS Project ID: <u>1905226</u>
Shipped/Delivered Via: <u>ESS Courier</u>	Date Received: <u>5/7/2019</u>
	Project Due Date: <u>5/14/2019</u>
	Days for Project: <u>5 Day</u>
<p>1. Air bill manifest present? <input type="checkbox"/> No</p> <p>Air No.: <u>NA</u></p> <p>2. Were custody seals present? <input type="checkbox"/> No</p> <p>3. Is radiation count <100 CPM? <input type="checkbox"/> Yes</p> <p>4. Is a Cooler Present? Temp: <u>0.9</u> Iced with: <u>Ice</u> <input type="checkbox"/> Yes</p> <p>5. Was COC signed and dated by client? <input type="checkbox"/> Yes</p>	
<p>6. Does COC match bottles? <input type="checkbox"/> Yes</p> <p>7. Is COC complete and correct? <input type="checkbox"/> Yes</p> <p>8. Were samples received intact? <input type="checkbox"/> Yes</p> <p>9. Were labs informed about <u>short holds & rushes</u>? <input type="checkbox"/> Yes / No / NA</p> <p>10. Were any analyses received outside of hold time? <input type="checkbox"/> Yes / No</p>	
<p>11. Any Subcontracting needed? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No</p> <p>ESS Sample IDs: Analysis: _____ TAT: _____</p> <p>12. Were VOAs received? a. Air bubbles in aqueous VOAs? <input type="checkbox"/> Yes / No b. Does methanol cover soil completely? <input type="checkbox"/> Yes / No / NA</p>	
<p>13. Are the samples properly preserved? a. If metals preserved upon receipt: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No b. Low Level VOA vials frozen: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No</p> <p>Date: <u>5/7/19</u> Time: <u>2022</u> By: <u>JN</u></p>	
<p>Sample Receiving Notes:</p> <hr/> <hr/> <hr/>	
<p>14. Was there a need to contact Project Manager? a. Was there a need to contact the client?</p> <p>Who was contacted? _____ Date: _____ Time: _____ By: _____</p> <hr/> <hr/> <hr/>	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	342219	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
01	342230	Yes	NA	Yes	VOA Vial - Other	Other	
01	342231	Yes	NA	Yes	VOA Vial - Other	Other	
01	342242	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
02	342218	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
02	342228	Yes	NA	Yes	VOA Vial - Other	Other	
02	342229	Yes	NA	Yes	VOA Vial - Other	Other	
02	342240	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
03	342217	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
03	342226	Yes	NA	Yes	VOA Vial - Other	Other	
03	342227	Yes	NA	Yes	VOA Vial - Other	Other	
03	342238	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
04	342216	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
04	342224	Yes	NA	Yes	VOA Vial - Other	Other	
04	342225	Yes	NA	Yes	VOA Vial - Other	Other	
04	342236	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
04	342237	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
05	342215	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
05	342222	Yes	NA	Yes	VOA Vial - Other	Other	
05	342223	Yes	NA	Yes	VOA Vial - Other	Other	
05	342234	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
05	342235	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
06	342214	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
06	342220	Yes	NA	Yes	VOA Vial - Other	Other	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Green Environmental, Inc. - TB/HDM

ESS Project ID: 1905226
Date Received: 5/7/2019

06	342221	Yes	NA	Yes	VOA Vial - Other
06	342232	Yes	NA	Yes	8 oz. Jar - Unpres
06	342233	Yes	NA	Yes	8 oz. Jar - Unpres

Other
NP
NP

2nd Review

Were all containers scanned into storage/lab?

Initials A

Yes / No
Yes / No NA
Yes / No / NA
Yes / No / NA
Yes / No X NA

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached?

Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Completed
By:

Date & Time: 5/7/19 1945

Reviewed
By:

Date & Time: 5/7/19 2022

Delivered
By:

5/7/19 2022

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time	5	Days	Reporting Limits		RCS-1								
Regulatory State MA			Electronic Deliverables		<input checked="" type="checkbox"/> Data Checker <input checked="" type="checkbox"/> Other (Please Specify →) PPF								
Is this project for any of the following?: <input type="radio"/> CT RCP <input checked="" type="radio"/> MA MCP <input type="radio"/> RGP													
Project # 19137	Project Name Bliss Corner (hdm 5/8/19)		Analysis	VOL SVOL PCB VOA 14 methanol EPH carbon choloro only									
Address 296C Weymouth St.													
State	Zip Code 02370	PO #											
Number 5150	Email Address psm/char@greenenvironmental.com												
Sample Matrix	Sample ID												
Soil	B-12 (b-21")		X	X	X X X								
	B-11 (0-5')		X	X	X X X								
	B-2 (4-15")		X	X	X X X								
	B-1 (6-18")		X	X	X X X								
	B-5 (3-24")		X	X	X X X								
↓	B-7 (11-18")		X	X	X X X X								
Class	B-BOD Bottle	C-Cubitainer	J-Jar	O-Other	P-Poly	S-Sterile	V-Vial	V	AG	AG	AG	AG	
1L	4-300 mL	5-500 mL	6-1L	7-VOA	8-2 oz	9-4 oz	10-8 oz	11-Other*	7	10	10	10	10
4-HNO3	5-NaOH	6-Methanol	7-Na2S2O3	8-ZnAc, NaOH	9-NH4Cl	10-DI H2O	11-Other*	btl	1	1	1	1	1
Number of Containers per Sample:								1/2	1-2	1-2	1-2	1-2	
Sampled by: pls/AL		Comments: Please specify "Other" preservative and containers types in this space											
Received By: (Signature, Date & Time)		Relinquished By: (Signature, Date & Time)		Received By: (Signature, Date & Time)									
RCals 5/7/19 1245		RCals 5/7/19 1736		John 5/7/19 1933									
Received By: (Signature, Date & Time)		Relinquished By: (Signature, Date & Time)		Received By: (Signature, Date & Time)									

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CHAIN OF CUSTODY



CERTIFICATE OF ANALYSIS

Parrish Smolcha
Green Environmental, Inc.
296 Weymouth Street Unit C
Rockland, MA 02370

RE: Bliss Corner (19137)
ESS Laboratory Work Order Number: 1905253

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 4:55 pm, May 15, 2019

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

SAMPLE RECEIPT

The following samples were received on May 08, 2019 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Low Level VOA vials were frozen by ESS Laboratory on May 08, 2019 at 18:40.

Lab Number	Sample Name	Matrix	Analysis
1905253-01	B-6 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905253-02	B-15 8-13in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905253-03	B-19 12-19in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905253-04	B-14 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905253-05	B-17 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905253-06	B-13 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

1905253-02	<u>Elevated Method Reporting Limits due to sample matrix (EL).</u>
C9E0117-CCV1	<u>Calibration required quadratic regression (Q).</u> 2,4-Dinitrophenol (63% @ 80-120%), Pentachlorophenol (96% @ 80-120%)
C9E0117-CCV1	<u>Continuing Calibration %Diff/Drift is below control limit (CD-).</u> 2,4-Dinitrophenol (37% @ 20%)
C9E0138-CCV1	<u>Calibration required quadratic regression (Q).</u> 2,4-Dinitrophenol (84% @ 80-120%), Pentachlorophenol (106% @ 80-120%)
C9E0203-CCV1	<u>Calibration required quadratic regression (Q).</u> 2,4-Dinitrophenol (101% @ 80-120%), 4-Bromophenyl-phenylether (93% @ 80-120%), Pentachlorophenol (117% @ 80-120%)
C9E0203-CCV1	<u>Initial Calibration Verification recovery is above upper control limit (ICV+).</u> 4-Bromophenyl-phenylether

MADEP-EPH Extractable Petroleum Hydrocarbons

1905253-02	<u>Elevated Method Reporting Limits due to sample matrix (EL).</u>
C9E0122-CCV4	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Benzo(k)fluoranthene (30% @ 20%)
C9E0133-CCV2	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (33% @ 25%)
C9E0133-CCV3	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (38% @ 25%)
C9E0133-CCV4	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (49% @ 25%)
C9E0133-CCV5	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (36% @ 25%)
C9E0133-CCV6	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Hexatriacontane (C36) (27% @ 25%)
C9E0151-CCV2	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> 2-Methylnaphthalene (23% @ 20%), Benzo(k)fluoranthene (24% @ 20%), Chrysene (22% @ 20%)
C9E0161-CCV2	<u>Continuing Calibration %Diff/Drift is above control limit (CD+).</u> Benzo(g,h,i)perylene (22% @ 20%), Benzo(k)fluoranthene (30% @ 20%), Dibenz(a,h)Anthracene (23% @ 20%)

No other observations noted.

End of Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1905253-01 through 1905253-06**

Matrices: () Ground Water/Surface Water () Soil/Sediment () Drinking Water () Air () Other: _____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	() MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	() 9014 Total Cyanide/PAC CAM VI A	() 6860 Perchlorate CAM VIII B
(X) 8270 SVOC CAM II B	() 7010 Metals CAM III C	() MassDEP VPH (GC/MS) CAM IV C	() 8081 Pesticides CAM V B	() 7196 Hex Cr CAM VI B	() MassDEP APH CAM IX A
(X) 6010 Metals CAM III A	() 6020 Metals CAM III D	(X) MassDEP EPH CAM IV B	() 8151 Herbicides CAM V C	() Explosives CAM VIII A	() TO-15 VOC CAM IX B

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes (X) No ()
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes (X) No ()
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes (X) No ()
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No ()
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes () No ()
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes (X) No ()

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? Yes () No (X)*
- Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.
- H Were all QC performance standards specified in the CAM protocol(s) achieved? Yes () No (X)*
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes (X) No ()*

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Printed Name: Laurel Stoddard

Date: May 15, 2019

Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.09)		6010C		1	KJK	05/10/19 21:22	3.64	100	CE90967
Arsenic	2.18 (1.54)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Barium	27.7 (1.54)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Beryllium	0.21 (0.07)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Cadmium	ND (0.31)		6010C		1	KJK	05/14/19 19:35	3.64	100	CE90967
Chromium	8.40 (0.62)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Lead	44.7 (3.09)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Mercury	0.056 (0.029)		7471B		1	MKS	05/10/19 9:53	0.77	40	CE90968
Nickel	4.40 (1.54)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Selenium	ND (3.09)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Silver	ND (0.31)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Thallium	ND (3.09)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Vanadium	8.39 (0.62)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967
Zinc	17.6 (1.54)		6010C		1	KJK	05/10/19 6:38	3.64	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 9

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0012)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
1,4-Dioxane	ND (0.0624)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
2-Butanone	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
2-Chlorotoluene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
2-Hexanone	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
4-Chlorotoluene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Acetone	0.0491 (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Benzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Bromobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Bromochloromethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 9

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Bromoform	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Bromomethane	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Carbon Disulfide	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Chlorobenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Chloroethane	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Chloroform	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Chloromethane	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Dibromochloromethane	ND (0.0012)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Dibromomethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Diethyl Ether	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Di-isopropyl ether	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Ethylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Isopropylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Methylene Chloride	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Naphthalene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
n-Butylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
n-Propylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
sec-Butylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Styrene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
tert-Butylbenzene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Tetrachloroethene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Tetrahydrofuran	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Toluene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 9

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Trichloroethene	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Vinyl Chloride	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Xylene O	ND (0.0031)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Xylene P,M	ND (0.0062)		8260B Low		1	05/13/19 18:22	C9E0195	CE91320
Xylenes (Total)	ND (0.0062)		8260B Low		1	05/13/19 18:22		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		96 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		108 %		70-130				
<i>Surrogate: Toluene-d8</i>		100 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 19.4

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/9/19 15:24

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1254	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1260	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 4:01		CE90808
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 4:01		CE90808

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	78 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	64 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	80 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 14.9

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
1,2-Dichlorobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
1,3-Dichlorobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
1,4-Dichlorobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,4,5-Trichlorophenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,4,6-Trichlorophenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,4-Dichlorophenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,4-Dimethylphenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,4-Dinitrophenol	ND (1.89)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,4-Dinitrotoluene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2,6-Dinitrotoluene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2-Chloronaphthalene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2-Chlorophenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2-Methylnaphthalene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2-Methylphenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
2-Nitrophenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
3,3'-Dichlorobenzidine	ND (0.754)		8270D		1	05/09/19 18:30	C9E0138	CE90809
3+4-Methylphenol	ND (0.754)		8270D		1	05/09/19 18:30	C9E0138	CE90809
4-Bromophenyl-phenylether	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
4-Chloroaniline	ND (0.754)		8270D		1	05/09/19 18:30	C9E0138	CE90809
4-Nitrophenol	ND (1.89)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Acenaphthene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Acenaphthylene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Acetophenone	ND (0.754)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Aniline	ND (1.89)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Anthracene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Azobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Benzo(a)anthracene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Benzo(a)pyrene	0.230 (0.189)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Benzo(b)fluoranthene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Benzo(g,h,i)perylene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Benzo(k)fluoranthene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 14.9

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
bis(2-Chloroethyl)ether	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
bis(2-chloroisopropyl)Ether	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
bis(2-Ethylhexyl)phthalate	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Butylbenzylphthalate	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Chrysene	0.230 (0.189)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Dibenzo(a,h)Anthracene	ND (0.189)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Dibenzofuran	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Diethylphthalate	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Dimethylphthalate	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Di-n-butylphthalate	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Di-n-octylphthalate	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Fluoranthene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Fluorene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Hexachlorobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Hexachlorobutadiene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Hexachloroethane	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Indeno(1,2,3-cd)Pyrene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Isophorone	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Naphthalene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Nitrobenzene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
N-Nitrosodimethylamine	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Pentachlorophenol	ND (1.89)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Phenanthrene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Phenol	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809
Pyrene	ND (0.377)		8270D		1	05/09/19 18:30	C9E0138	CE90809

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	70 %		30-130
Surrogate: 2,4,6-Tribromophenol	88 %		30-130
Surrogate: 2-Chlorophenol-d4	75 %		30-130
Surrogate: 2-Fluorobiphenyl	70 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 14.9

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		74 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		67 %		30-130				
<i>Surrogate: Phenol-d6</i>		77 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		79 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-6 0-5ft

Date Sampled: 05/07/19 08:45

Percent Solids: 89

Initial Volume: 25.5

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-01

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/9/19 11:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.5)		MADEP-EPH		1	CAD	05/10/19 2:35	C9E0133	CE90804
C19-C36 Aliphatics1	ND (16.5)		MADEP-EPH		1	CAD	05/10/19 2:35	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	24.4 (16.5)		EPH8270		1	VSC	05/10/19 20:34	C9E0161	CE90804
C11-C22 Aromatics1,2	24.4 (16.5)		EPH8270			VSC	05/10/19 20:34		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	73 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	110 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	109 %		40-140
<i>Surrogate: O-Terphenyl</i>	81 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.47)		6010C		1	KJK	05/10/19 21:30	2.31	100	CE90967
Arsenic	ND (2.23)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Barium	18.0 (2.23)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Beryllium	0.22 (0.10)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Cadmium	ND (0.45)		6010C		1	KJK	05/14/19 19:39	2.31	100	CE90967
Chromium	7.91 (0.89)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Lead	9.52 (4.47)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Mercury	ND (0.030)		7471B		1	MKS	05/10/19 9:55	0.67	40	CE90968
Nickel	8.61 (2.23)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Selenium	ND (4.47)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Silver	ND (0.45)		6010C		1	KJK	05/10/19 21:30	2.31	100	CE90967
Thallium	ND (4.47)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Vanadium	41.2 (0.89)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967
Zinc	15.0 (2.23)		6010C		1	KJK	05/10/19 6:42	2.31	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 6.6

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0016)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
1,4-Dioxane	ND (0.0782)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
2-Butanone	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
2-Chlorotoluene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
2-Hexanone	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
4-Chlorotoluene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Acetone	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Benzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Bromobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Bromochloromethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 6.6

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Bromoform	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Bromomethane	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Carbon Disulfide	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Chlorobenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Chloroethane	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Chloroform	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Chloromethane	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Dibromochloromethane	ND (0.0016)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Dibromomethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Diethyl Ether	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Di-isopropyl ether	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Ethylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Isopropylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Methylene Chloride	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Naphthalene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
n-Butylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
n-Propylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
sec-Butylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Styrene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
tert-Butylbenzene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Tetrachloroethene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Tetrahydrofuran	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Toluene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 6.6

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Trichloroethene	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Vinyl Chloride	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Xylene O	ND (0.0039)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Xylene P,M	ND (0.0078)		8260B Low		1	05/13/19 18:48	C9E0195	CE91320
Xylenes (Total)	ND (0.0078)		8260B Low		1	05/13/19 18:48		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	95 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	104 %		70-130
<i>Surrogate: Toluene-d8</i>	98 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 20.3

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/9/19 15:24

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1221	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1232	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1242	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1248	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1254	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1260	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1262	ND (0.05)		8082A		1	05/14/19 4:20		CE90808
Aroclor 1268	ND (0.05)		8082A		1	05/14/19 4:20		CE90808

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	44 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	45 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	40 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	46 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 14.4

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
1,2-Dichlorobenzene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
1,3-Dichlorobenzene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
1,4-Dichlorobenzene	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,4,5-Trichlorophenol	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,4,6-Trichlorophenol	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,4-Dichlorophenol	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,4-Dimethylphenol	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,4-Dinitrophenol	ND (1.43)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,4-Dinitrotoluene	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2,6-Dinitrotoluene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2-Chloronaphthalene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2-Chlorophenol	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2-Methylnaphthalene	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2-Methylphenol	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
2-Nitrophenol	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
3,3'-Dichlorobenzidine	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
3+4-Methylphenol	ND (1.43)		8270D		2	05/09/19 23:44	C9E0138	CE90912
4-Bromophenyl-phenylether	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
4-Chloroaniline	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
4-Nitrophenol	ND (3.59)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Acenaphthene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Acenaphthylene	0.831 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Acetophenone	ND (1.43)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Aniline	ND (3.59)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Anthracene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Azobenzene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Benzo(a)anthracene	1.45 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Benzo(a)pyrene	1.18 (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Benzo(b)fluoranthene	0.826 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Benzo(g,h,i)perylene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Benzo(k)fluoranthene	1.09 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 14.4

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
bis(2-Chloroethyl)ether	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
bis(2-chloroisopropyl)Ether	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Butylbenzylphthalate	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Chrysene	1.46 (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Dibenzo(a,h)Anthracene	0.418 (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Dibenzofuran	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Diethylphthalate	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Dimethylphthalate	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Di-n-butylphthalate	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Di-n-octylphthalate	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Fluoranthene	2.05 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Fluorene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Hexachlorobenzene	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Hexachlorobutadiene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Hexachloroethane	ND (0.359)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Isophorone	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Naphthalene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Nitrobenzene	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
N-Nitrosodimethylamine	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Pentachlorophenol	ND (1.43)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Phenanthrene	0.750 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Phenol	ND (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912
Pyrene	2.49 (0.716)		8270D		2	05/09/19 23:44	C9E0138	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	37 %		30-130
Surrogate: 2,4,6-Tribromophenol	49 %		30-130
Surrogate: 2-Chlorophenol-d4	42 %		30-130
Surrogate: 2-Fluorobiphenyl	40 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 14.4

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		41 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		35 %		30-130				
<i>Surrogate: Phenol-d6</i>		43 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		47 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-15 8-13in

Date Sampled: 05/07/19 09:45

Percent Solids: 97

Initial Volume: 25

Final Volume: 5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-02

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/9/19 11:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (77.4)		MADEP-EPH		1	CAD	05/10/19 3:22	C9E0133	CE90804
C19-C36 Aliphatics1	549 (77.4)		MADEP-EPH		1	CAD	05/10/19 3:22	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	689 (77.4)		EPH8270		1	VSC	05/10/19 21:10	C9E0161	CE90804
C11-C22 Aromatics1,2	665 (77.4)		EPH8270			VSC	05/10/19 21:10		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	80 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	99 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	93 %		40-140
<i>Surrogate: O-Terphenyl</i>	74 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.44)		6010C		1	KJK	05/10/19 21:33	2.58	100	CE90967
Arsenic	ND (2.22)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Barium	70.0 (2.22)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Beryllium	0.26 (0.10)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Cadmium	ND (0.44)		6010C		1	KJK	05/14/19 19:55	2.58	100	CE90967
Chromium	5.05 (0.89)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Lead	20.1 (4.44)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Mercury	0.056 (0.023)		7471B		1	MKS	05/10/19 9:57	0.98	40	CE90968
Nickel	4.79 (2.22)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Selenium	ND (4.44)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Silver	ND (0.44)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Thallium	ND (4.44)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Vanadium	9.91 (0.89)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967
Zinc	12.5 (2.22)		6010C		1	KJK	05/10/19 6:46	2.58	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 7.1

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0016)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
1,4-Dioxane	ND (0.0806)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
2-Butanone	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
2-Chlorotoluene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
2-Hexanone	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
4-Chlorotoluene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Acetone	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Benzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Bromobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Bromochloromethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 7.1

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Bromoform	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Bromomethane	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Carbon Disulfide	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Chlorobenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Chloroethane	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Chloroform	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Chloromethane	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Dibromochloromethane	ND (0.0016)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Dibromomethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Diethyl Ether	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Di-isopropyl ether	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Ethylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Isopropylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Methylene Chloride	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Naphthalene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
n-Butylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
n-Propylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
sec-Butylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Styrene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
tert-Butylbenzene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Tetrachloroethene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Tetrahydrofuran	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Toluene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 7.1

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Trichloroethene	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Vinyl Chloride	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Xylene O	ND (0.0040)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Xylene P,M	ND (0.0081)		8260B Low		1	05/13/19 19:13	C9E0195	CE91320
Xylenes (Total)	ND (0.0081)		8260B Low		1	05/13/19 19:13		[CALC]
<hr/>								
	%Recovery	Qualifier	Limits					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	125 %		70-130					
<i>Surrogate: 4-Bromofluorobenzene</i>	96 %		70-130					
<i>Surrogate: Dibromofluoromethane</i>	112 %		70-130					
<i>Surrogate: Toluene-d8</i>	107 %		70-130					



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 19.3

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/9/19 15:24

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1254	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1260	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 4:40		CE90808
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 4:40		CE90808

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	68 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	70 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 15.2

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
1,2-Dichlorobenzene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
1,3-Dichlorobenzene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
1,4-Dichlorobenzene	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,4,5-Trichlorophenol	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,4,6-Trichlorophenol	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,4-Dichlorophenol	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,4-Dimethylphenol	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,4-Dinitrophenol	ND (0.754)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,4-Dinitrotoluene	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2,6-Dinitrotoluene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2-Chloronaphthalene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2-Chlorophenol	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2-Methylnaphthalene	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2-Methylphenol	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
2-Nitrophenol	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
3,3'-Dichlorobenzidine	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
3+4-Methylphenol	ND (0.754)		8270D		1	05/09/19 22:26	C9E0138	CE90912
4-Bromophenyl-phenylether	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
4-Chloroaniline	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
4-Nitrophenol	ND (1.89)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Acenaphthene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Acenaphthylene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Acetophenone	ND (0.754)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Aniline	ND (1.89)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Anthracene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Azobenzene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Benzo(a)anthracene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Benzo(a)pyrene	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Benzo(b)fluoranthene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Benzo(g,h,i)perylene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Benzo(k)fluoranthene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 15.2

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
bis(2-Chloroethyl)ether	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
bis(2-chloroisopropyl)Ether	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Butylbenzylphthalate	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Chrysene	0.217 (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Dibenzo(a,h)Anthracene	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Dibenzofuran	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Diethylphthalate	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Dimethylphthalate	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Di-n-butylphthalate	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Di-n-octylphthalate	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Fluoranthene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Fluorene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Hexachlorobenzene	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Hexachlorobutadiene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Hexachloroethane	ND (0.189)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Isophorone	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Naphthalene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Nitrobenzene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
N-Nitrosodimethylamine	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Pentachlorophenol	ND (0.754)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Phenanthrene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Phenol	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912
Pyrene	ND (0.376)		8270D		1	05/09/19 22:26	C9E0138	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	73 %		30-130
Surrogate: 2,4,6-Tribromophenol	88 %		30-130
Surrogate: 2-Chlorophenol-d4	74 %		30-130
Surrogate: 2-Fluorobiphenyl	72 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 15.2

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		74 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		71 %		30-130				
<i>Surrogate: Phenol-d6</i>		74 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		81 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-19 12-19in

Date Sampled: 05/07/19 10:45

Percent Solids: 87

Initial Volume: 24.4

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-03

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/9/19 11:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (17.6)		MADEP-EPH		1	CAD	05/10/19 4:08	C9E0133	CE90804
C19-C36 Aliphatics1	24.9 (17.6)		MADEP-EPH		1	CAD	05/10/19 4:08	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	42.2 (17.6)		EPH8270		1	VSC	05/10/19 21:47	C9E0161	CE90804
C11-C22 Aromatics1,2	42.2 (17.6)		EPH8270			VSC	05/10/19 21:47		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	61 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	96 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	94 %		40-140
<i>Surrogate: O-Terphenyl</i>	65 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.87)		6010C		1	KJK	05/10/19 21:37	2.24	100	CE90967
Arsenic	ND (2.44)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Barium	8.44 (2.44)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Beryllium	0.25 (0.11)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Cadmium	ND (0.49)		6010C		1	KJK	05/14/19 19:59	2.24	100	CE90967
Chromium	5.96 (0.97)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Lead	5.63 (4.87)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Mercury	ND (0.022)		7471B		1	MKS	05/10/19 9:59	0.97	40	CE90968
Nickel	3.70 (2.44)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Selenium	ND (4.87)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Silver	ND (0.49)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Thallium	ND (4.87)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Vanadium	10.3 (0.97)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967
Zinc	14.5 (2.44)		6010C		1	KJK	05/10/19 6:50	2.24	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 10.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0011)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
1,4-Dioxane	ND (0.0535)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
2-Butanone	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
2-Chlorotoluene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
2-Hexanone	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
4-Chlorotoluene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Acetone	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Benzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Bromobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Bromochloromethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 10.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Bromoform	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Bromomethane	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Carbon Disulfide	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Chlorobenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Chloroethane	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Chloroform	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Chloromethane	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Dibromochloromethane	ND (0.0011)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Dibromomethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Diethyl Ether	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Di-isopropyl ether	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Ethylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Isopropylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Methylene Chloride	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Naphthalene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
n-Butylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
n-Propylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
sec-Butylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Styrene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
tert-Butylbenzene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Tetrachloroethene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Tetrahydrofuran	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Toluene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 10.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Trichloroethene	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Vinyl Chloride	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Xylene O	ND (0.0027)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Xylene P,M	ND (0.0053)		8260B Low		1	05/13/19 19:39	C9E0195	CE91320
Xylenes (Total)	ND (0.0053)		8260B Low		1	05/13/19 19:39		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		103 %		70-130				
<i>Surrogate: Toluene-d8</i>		98 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 19.3

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/9/19 15:24

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1254	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1260	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 4:59		CE90808
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 4:59		CE90808

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	77 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 14.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
1,2-Dichlorobenzene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
1,3-Dichlorobenzene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
1,4-Dichlorobenzene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,4,5-Trichlorophenol	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,4,6-Trichlorophenol	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,4-Dichlorophenol	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,4-Dimethylphenol	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,4-Dinitrophenol	ND (0.737)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,4-Dinitrotoluene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2,6-Dinitrotoluene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2-Chloronaphthalene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2-Chlorophenol	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2-Methylnaphthalene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2-Methylphenol	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
2-Nitrophenol	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
3,3'-Dichlorobenzidine	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
3+4-Methylphenol	ND (0.737)		8270D		1	05/09/19 22:52	C9E0138	CE90912
4-Bromophenyl-phenylether	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
4-Chloroaniline	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
4-Nitrophenol	ND (1.85)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Acenaphthene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Acenaphthylene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Acetophenone	ND (0.737)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Aniline	ND (1.85)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Anthracene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Azobenzene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Benzo(a)anthracene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Benzo(a)pyrene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Benzo(b)fluoranthene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Benzo(g,h,i)perylene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Benzo(k)fluoranthene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 14.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
bis(2-Chloroethyl)ether	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
bis(2-chloroisopropyl)Ether	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Butylbenzylphthalate	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Chrysene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Dibenzo(a,h)Anthracene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Dibenzofuran	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Diethylphthalate	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Dimethylphthalate	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Di-n-butylphthalate	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Di-n-octylphthalate	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Fluoranthene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Fluorene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Hexachlorobenzene	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Hexachlorobutadiene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Hexachloroethane	ND (0.185)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Isophorone	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Naphthalene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Nitrobenzene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
N-Nitrosodimethylamine	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Pentachlorophenol	ND (0.737)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Phenanthrene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Phenol	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912
Pyrene	ND (0.368)		8270D		1	05/09/19 22:52	C9E0138	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2,4,6-Tribromophenol	89 %		30-130
Surrogate: 2-Chlorophenol-d4	69 %		30-130
Surrogate: 2-Fluorobiphenyl	71 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 14.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		68 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		65 %		30-130				
<i>Surrogate: Phenol-d6</i>		69 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		79 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-14 0-5ft

Date Sampled: 05/07/19 12:00

Percent Solids: 92

Initial Volume: 25.2

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-04

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/9/19 11:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.2)		MADEP-EPH		1	CAD	05/10/19 4:55	C9E0133	CE90804
C19-C36 Aliphatics1	ND (16.2)		MADEP-EPH		1	CAD	05/10/19 4:55	C9E0133	CE90804
C11-C22 Unadjusted Aromatics1	ND (16.2)		EPH8270		1	VSC	05/10/19 22:23	C9E0161	CE90804
C11-C22 Aromatics1,2	ND (16.2)		EPH8270			VSC	05/10/19 22:23		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	76 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	107 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	102 %		40-140
<i>Surrogate: O-Terphenyl</i>	84 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.83)		6010C		1	KJK	05/10/19 21:56	2.28	100	CE90967
Arsenic	ND (2.42)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Barium	6.83 (2.42)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Beryllium	0.20 (0.11)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Cadmium	ND (0.48)		6010C		1	KJK	05/14/19 20:18	2.28	100	CE90967
Chromium	5.14 (0.97)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Lead	ND (4.83)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Mercury	ND (0.032)		7471B		1	MKS	05/10/19 10:13	0.68	40	CE90968
Nickel	3.85 (2.42)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Selenium	ND (4.83)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Silver	ND (0.48)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Thallium	ND (4.83)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Vanadium	8.54 (0.97)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967
Zinc	11.1 (2.42)		6010C		1	KJK	05/10/19 7:20	2.28	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0014)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
1,4-Dioxane	ND (0.0688)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
2-Butanone	ND (0.0069)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
2-Chlorotoluene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
2-Hexanone	ND (0.0069)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
4-Chlorotoluene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0069)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Acetone	0.0149 (0.0069)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Benzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Bromobenzene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Bromochloromethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Bromoform	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Bromomethane	ND (0.0069)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Carbon Disulfide	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Chlorobenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Chloroethane	ND (0.0069)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Chloroform	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Chloromethane	ND (0.0069)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Dibromochloromethane	ND (0.0014)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Dibromomethane	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0069)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Diethyl Ether	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Di-isopropyl ether	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Ethylbenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Isopropylbenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Methylene Chloride	ND (0.0069)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Naphthalene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
n-Butylbenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
n-Propylbenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
sec-Butylbenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Styrene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
tert-Butylbenzene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Tetrachloroethene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Tetrahydrofuran	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320
Toluene	ND (0.0034)		8260B Low	1		05/13/19 20:04	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Trichloroethene	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Vinyl Chloride	ND (0.0069)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Xylene O	ND (0.0034)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Xylene P,M	ND (0.0069)		8260B Low		1	05/13/19 20:04	C9E0195	CE91320
Xylenes (Total)	ND (0.0069)		8260B Low		1	05/13/19 20:04		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		115 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		105 %		70-130				
<i>Surrogate: Toluene-d8</i>		97 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 19.9

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/9/19 15:24

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1221	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1232	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1242	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1248	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1254	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1260	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1262	ND (0.06)		8082A		1	05/14/19 5:18		CE90808
Aroclor 1268	ND (0.06)		8082A		1	05/14/19 5:18		CE90808

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	91 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	83 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	88 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 14.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
1,2-Dichlorobenzene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
1,3-Dichlorobenzene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
1,4-Dichlorobenzene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,4,5-Trichlorophenol	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,4,6-Trichlorophenol	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,4-Dichlorophenol	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,4-Dimethylphenol	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,4-Dinitrophenol	ND (0.755)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,4-Dinitrotoluene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2,6-Dinitrotoluene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2-Chloronaphthalene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2-Chlorophenol	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2-Methylnaphthalene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2-Methylphenol	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
2-Nitrophenol	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
3,3'-Dichlorobenzidine	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
3+4-Methylphenol	ND (0.755)		8270D		1	05/09/19 23:18	C9E0138	CE90912
4-Bromophenyl-phenylether	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
4-Chloroaniline	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
4-Nitrophenol	ND (1.89)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Acenaphthene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Acenaphthylene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Acetophenone	ND (0.755)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Aniline	ND (1.89)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Anthracene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Azobenzene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Benzo(a)anthracene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Benzo(a)pyrene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Benzo(b)fluoranthene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Benzo(g,h,i)perylene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Benzo(k)fluoranthene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 14.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
bis(2-Chloroethyl)ether	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
bis(2-chloroisopropyl)Ether	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Butylbenzylphthalate	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Chrysene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Dibenzo(a,h)Anthracene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Dibenzofuran	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Diethylphthalate	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Dimethylphthalate	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Di-n-butylphthalate	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Di-n-octylphthalate	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Fluoranthene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Fluorene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Hexachlorobenzene	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Hexachlorobutadiene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Hexachloroethane	ND (0.189)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Isophorone	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Naphthalene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Nitrobenzene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
N-Nitrosodimethylamine	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Pentachlorophenol	ND (0.755)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Phenanthrene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Phenol	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912
Pyrene	ND (0.377)		8270D		1	05/09/19 23:18	C9E0138	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	75 %		30-130
Surrogate: 2,4,6-Tribromophenol	89 %		30-130
Surrogate: 2-Chlorophenol-d4	76 %		30-130
Surrogate: 2-Fluorobiphenyl	74 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 14.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		76 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		69 %		30-130				
<i>Surrogate: Phenol-d6</i>		77 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		78 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-17 0-5ft

Date Sampled: 05/07/19 13:30

Percent Solids: 91

Initial Volume: 25.1

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-05

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/9/19 13:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.5)		MADEP-EPH		1	CAD	05/10/19 11:09	C9E0133	CE90905
C19-C36 Aliphatics1	ND (16.5)		MADEP-EPH		1	CAD	05/10/19 11:09	C9E0133	CE90905
C11-C22 Unadjusted Aromatics1	ND (16.5)		EPH8270		1	VSC	05/10/19 23:00	C9E0161	CE90905
C11-C22 Aromatics1,2	ND (16.5)		EPH8270			VSC	05/10/19 23:00		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	74 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	99 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	80 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.87)		6010C		1	KJK	05/10/19 22:12	2.17	100	CE90967
Arsenic	ND (2.44)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Barium	11.0 (2.44)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Beryllium	0.29 (0.11)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Cadmium	ND (0.49)		6010C		1	KJK	05/14/19 20:22	2.17	100	CE90967
Chromium	8.55 (0.97)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Lead	ND (4.87)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Mercury	ND (0.031)		7471B		1	MKS	05/10/19 10:15	0.67	40	CE90968
Nickel	5.84 (2.44)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Selenium	ND (4.87)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Silver	ND (0.49)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Thallium	ND (4.87)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Vanadium	11.9 (0.97)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967
Zinc	18.6 (2.44)		6010C		1	KJK	05/10/19 7:24	2.17	100	CE90967



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 8.9

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,1,1-Trichloroethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,1,2,2-Tetrachloroethane	ND (0.0012)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,1,2-Trichloroethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,1-Dichloroethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,1-Dichloroethene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,1-Dichloropropene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2,3-Trichlorobenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2,3-Trichloropropane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2,4-Trichlorobenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2,4-Trimethylbenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2-Dibromo-3-Chloropropane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2-Dibromoethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2-Dichlorobenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2-Dichloroethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,2-Dichloropropane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,3,5-Trimethylbenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,3-Dichlorobenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,3-Dichloropropane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,4-Dichlorobenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
1,4-Dioxane	ND (0.0594)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
2,2-Dichloropropane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
2-Butanone	ND (0.0059)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
2-Chlorotoluene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
2-Hexanone	ND (0.0059)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
4-Chlorotoluene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
4-Isopropyltoluene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
4-Methyl-2-Pentanone	ND (0.0059)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Acetone	0.0260 (0.0059)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Benzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Bromobenzene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Bromochloromethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 8.9

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Bromoform	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Bromomethane	ND (0.0059)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Carbon Disulfide	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Carbon Tetrachloride	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Chlorobenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Chloroethane	ND (0.0059)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Chloroform	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Chloromethane	ND (0.0059)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
cis-1,2-Dichloroethene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
cis-1,3-Dichloropropene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Dibromochloromethane	ND (0.0012)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Dibromomethane	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Dichlorodifluoromethane	ND (0.0059)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Diethyl Ether	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Di-isopropyl ether	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Ethyl tertiary-butyl ether	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Ethylbenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Hexachlorobutadiene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Isopropylbenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Methyl tert-Butyl Ether	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Methylene Chloride	ND (0.0059)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Naphthalene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
n-Butylbenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
n-Propylbenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
sec-Butylbenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Styrene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
tert-Butylbenzene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Tertiary-amyl methyl ether	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Tetrachloroethene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Tetrahydrofuran	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320
Toluene	ND (0.0030)		8260B Low	1		05/13/19 20:29	C9E0195	CE91320



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 8.9

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
trans-1,3-Dichloropropene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Trichloroethene	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Trichlorofluoromethane	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Vinyl Chloride	ND (0.0059)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Xylene O	ND (0.0030)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Xylene P,M	ND (0.0059)		8260B Low		1	05/13/19 20:29	C9E0195	CE91320
Xylenes (Total)	ND (0.0059)		8260B Low		1	05/13/19 20:29		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		104 %		70-130				
<i>Surrogate: Toluene-d8</i>		96 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 19.3

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/9/19 15:24

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1221	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1232	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1242	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1248	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1254	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1260	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1262	ND (0.05)		8082A		1	05/14/19 5:37		CE90808
Aroclor 1268	ND (0.05)		8082A		1	05/14/19 5:37		CE90808

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	81 %		30-150
Surrogate: Decachlorobiphenyl [2C]	83 %		30-150
Surrogate: Tetrachloro-m-xylene	78 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	83 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 14.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,4-Dinitrophenol	ND (0.714)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2-Chloronaphthalene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2-Chlorophenol	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2-Methylnaphthalene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2-Methylphenol	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
2-Nitrophenol	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
3+4-Methylphenol	ND (0.714)		8270D		1	05/13/19 17:56	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
4-Chloroaniline	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
4-Nitrophenol	ND (1.79)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Acenaphthene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Acenaphthylene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Acetophenone	ND (0.714)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Aniline	ND (1.79)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Anthracene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Azobenzene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Benzo(a)anthracene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Benzo(a)pyrene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Benzo(b)fluoranthene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Benzo(g,h,i)perylene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Benzo(k)fluoranthene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 14.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Butylbenzylphthalate	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Chrysene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Dibenzo(a,h)Anthracene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Dibenzofuran	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Diethylphthalate	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Dimethylphthalate	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Di-n-butylphthalate	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Di-n-octylphthalate	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Fluoranthene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Fluorene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Hexachlorobenzene	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Hexachlorobutadiene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Hexachloroethane	ND (0.179)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Isophorone	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Naphthalene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Nitrobenzene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Pentachlorophenol	ND (0.714)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Phenanthrene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Phenol	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912
Pyrene	ND (0.357)		8270D		1	05/13/19 17:56	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	78 %		30-130
Surrogate: 2,4,6-Tribromophenol	87 %		30-130
Surrogate: 2-Chlorophenol-d4	90 %		30-130
Surrogate: 2-Fluorobiphenyl	83 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 14.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/9/19 12:01

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		92 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		84 %		30-130				
<i>Surrogate: Phenol-d6</i>		96 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		103 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-13 0-5ft

Date Sampled: 05/07/19 14:45

Percent Solids: 95

Initial Volume: 24.4

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905253

ESS Laboratory Sample ID: 1905253-06

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/9/19 13:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.2)		MADEP-EPH		1	CAD	05/10/19 11:56	C9E0133	CE90905
C19-C36 Aliphatics1	ND (16.2)		MADEP-EPH		1	CAD	05/10/19 11:56	C9E0133	CE90905
C11-C22 Unadjusted Aromatics1	ND (16.2)		EPH8270		1	VSC	05/09/19 19:59	C9E0151	CE90905
C11-C22 Aromatics1,2	ND (16.2)		EPH8270			VSC	05/09/19 19:59		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	70 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	92 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	88 %		40-140
<i>Surrogate: O-Terphenyl</i>	75 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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Total Metals

Batch CE90967 - 3050B

Blank

Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	5.00	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							

LCS

Antimony	39.6	18.5	mg/kg wet	42.40	93	80-120				
Arsenic	118	9.26	mg/kg wet	128.0	92	85-114				
Barium	518	9.26	mg/kg wet	536.0	97	82-118				
Beryllium	216	0.41	mg/kg wet	217.0	100	84-116				
Cadmium	91.2	1.85	mg/kg wet	99.00	92	87-113				
Chromium	118	3.70	mg/kg wet	116.0	102	82-118				
Lead	288	18.5	mg/kg wet	277.0	104	84-116				
Nickel	111	9.26	mg/kg wet	107.0	104	84-117				
Selenium	227	18.5	mg/kg wet	242.0	94	80-120				
Silver	63.5	1.85	mg/kg wet	64.30	99	86-114				
Thallium	199	18.5	mg/kg wet	183.0	109	80-120				
Vanadium	153	3.70	mg/kg wet	146.0	105	86-114				
Zinc	553	9.26	mg/kg wet	561.0	99	86-114				

LCS Dup

Antimony	37.4	18.2	mg/kg wet	42.40	88	80-120	6	20		
Arsenic	114	9.09	mg/kg wet	128.0	89	85-114	3	20		
Barium	523	9.09	mg/kg wet	536.0	98	82-118	0.9	20		
Beryllium	210	0.40	mg/kg wet	217.0	97	84-116	3	20		
Cadmium	85.9	1.82	mg/kg wet	99.00	87	87-113	6	20		
Chromium	116	3.64	mg/kg wet	116.0	100	82-118	2	20		
Lead	281	18.2	mg/kg wet	277.0	102	84-116	2	20		
Nickel	110	9.09	mg/kg wet	107.0	102	84-117	1	20		
Selenium	223	18.2	mg/kg wet	242.0	92	80-120	2	20		
Silver	63.2	1.82	mg/kg wet	64.30	98	86-114	0.6	20		
Thallium	192	18.2	mg/kg wet	183.0	105	80-120	4	20		
Vanadium	149	3.64	mg/kg wet	146.0	102	86-114	3	20		
Zinc	534	9.09	mg/kg wet	561.0	95	86-114	3	20		

Batch CE90968 - 7471B

Blank



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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Total Metals

Batch CE90968 - 7471B

Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	3.64	0.354	mg/kg wet	4.850		75	50-103			
LCS Dup										
Mercury	3.52	0.381	mg/kg wet	4.850		73	50-103	3	20	

5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0100	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0100	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet							
Acetone	ND	0.0100	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0020	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0100	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0050	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0505</i>		mg/kg wet	<i>0.05000</i>		<i>101</i>		<i>70-130</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0471</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>		<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0491</i>		mg/kg wet	<i>0.05000</i>		<i>98</i>		<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0494</i>		mg/kg wet	<i>0.05000</i>		<i>99</i>		<i>70-130</i>		

LCS

1,1,1,2-Tetrachloroethane	0.0488	0.0050	mg/kg wet	0.05000	98	70-130
1,1,1-Trichloroethane	0.0512	0.0050	mg/kg wet	0.05000	102	70-130
1,1,2,2-Tetrachloroethane	0.0429	0.0020	mg/kg wet	0.05000	86	70-130
1,1,2-Trichloroethane	0.0489	0.0050	mg/kg wet	0.05000	98	70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

1,1-Dichloroethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,1-Dichloroethene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,1-Dichloropropene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,3-Trichlorobenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,3-Trichloropropane	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,4-Trichlorobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,2,4-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dibromo-3-Chloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dibromoethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dichloroethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,3,5-Trimethylbenzene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
1,3-Dichlorobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dioxane	0.880	0.100	mg/kg wet	1.000		88	70-130			
2,2-Dichloropropane	0.0555	0.0050	mg/kg wet	0.05000		111	70-130			
2-Butanone	0.238	0.0100	mg/kg wet	0.2500		95	70-130			
2-Chlorotoluene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
2-Hexanone	0.224	0.0100	mg/kg wet	0.2500		90	70-130			
4-Chlorotoluene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
4-Methyl-2-Pentanone	0.248	0.0100	mg/kg wet	0.2500		99	70-130			
Acetone	0.238	0.0100	mg/kg wet	0.2500		95	70-130			
Benzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Bromobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Bromochloromethane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Bromodichloromethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
Bromoform	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Bromomethane	0.0507	0.0100	mg/kg wet	0.05000		101	70-130			
Carbon Disulfide	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
Carbon Tetrachloride	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Chlorobenzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Chloroethane	0.0495	0.0100	mg/kg wet	0.05000		99	70-130			
Chloroform	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
Chloromethane	0.0515	0.0100	mg/kg wet	0.05000		103	70-130			
cis-1,2-Dichloroethene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
cis-1,3-Dichloropropene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Dibromochloromethane	0.0474	0.0020	mg/kg wet	0.05000		95	70-130			
Dibromomethane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
Dichlorodifluoromethane	0.0519	0.0100	mg/kg wet	0.05000		104	70-130			
Diethyl Ether	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
Di-isopropyl ether	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Ethyl tertiary-butyl ether	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			



CERTIFICATE OF ANALYSIS

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Quality Control Data

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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Ethylbenzene	0.0506	0.0050	mg/kg wet	0.05000	101	70-130				
Hexachlorobutadiene	0.0497	0.0050	mg/kg wet	0.05000	99	70-130				
Isopropylbenzene	0.0509	0.0050	mg/kg wet	0.05000	102	70-130				
Methyl tert-Butyl Ether	0.0514	0.0050	mg/kg wet	0.05000	103	70-130				
Methylene Chloride	0.0483	0.0100	mg/kg wet	0.05000	97	70-130				
Naphthalene	0.0502	0.0050	mg/kg wet	0.05000	100	70-130				
n-Butylbenzene	0.0535	0.0050	mg/kg wet	0.05000	107	70-130				
n-Propylbenzene	0.0513	0.0050	mg/kg wet	0.05000	103	70-130				
sec-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000	101	70-130				
Styrene	0.0506	0.0050	mg/kg wet	0.05000	101	70-130				
tert-Butylbenzene	0.0507	0.0050	mg/kg wet	0.05000	101	70-130				
Tertiary-amyl methyl ether	0.0509	0.0050	mg/kg wet	0.05000	102	70-130				
Tetrachloroethene	0.0482	0.0050	mg/kg wet	0.05000	96	70-130				
Tetrahydrofuran	0.0485	0.0050	mg/kg wet	0.05000	97	70-130				
Toluene	0.0503	0.0050	mg/kg wet	0.05000	101	70-130				
trans-1,2-Dichloroethene	0.0517	0.0050	mg/kg wet	0.05000	103	70-130				
trans-1,3-Dichloropropene	0.0526	0.0050	mg/kg wet	0.05000	105	70-130				
Trichloroethene	0.0511	0.0050	mg/kg wet	0.05000	102	70-130				
Trichlorofluoromethane	0.0523	0.0050	mg/kg wet	0.05000	105	70-130				
Vinyl Chloride	0.0496	0.0100	mg/kg wet	0.05000	99	70-130				
Xylene O	0.0486	0.0050	mg/kg wet	0.05000	97	70-130				
Xylene P,M	0.0997	0.0100	mg/kg wet	0.1000	100	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0478</i>		mg/kg wet	<i>0.05000</i>	<i>96</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0492</i>		mg/kg wet	<i>0.05000</i>	<i>98</i>	<i>70-130</i>				
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0496</i>		mg/kg wet	<i>0.05000</i>	<i>99</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0493</i>		mg/kg wet	<i>0.05000</i>	<i>99</i>	<i>70-130</i>				

LCS Dup

1,1,1,2-Tetrachloroethane	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	4	20		
1,1,1-Trichloroethane	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	3	20		
1,1,2,2-Tetrachloroethane	0.0451	0.0020	mg/kg wet	0.05000	90	70-130	5	20		
1,1,2-Trichloroethane	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	4	20		
1,1-Dichloroethane	0.0519	0.0050	mg/kg wet	0.05000	104	70-130	3	20		
1,1-Dichloroethene	0.0571	0.0050	mg/kg wet	0.05000	114	70-130	5	20		
1,1-Dichloropropene	0.0557	0.0050	mg/kg wet	0.05000	111	70-130	3	20		
1,2,3-Trichlorobenzene	0.0530	0.0050	mg/kg wet	0.05000	106	70-130	6	20		
1,2,3-Trichloropropane	0.0491	0.0050	mg/kg wet	0.05000	98	70-130	5	20		
1,2,4-Trichlorobenzene	0.0562	0.0050	mg/kg wet	0.05000	112	70-130	7	20		
1,2,4-Trimethylbenzene	0.0544	0.0050	mg/kg wet	0.05000	109	70-130	5	20		
1,2-Dibromo-3-Chloropropane	0.0477	0.0050	mg/kg wet	0.05000	95	70-130	4	20		
1,2-Dibromoethane	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	7	20		
1,2-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000	100	70-130	5	20		
1,2-Dichloroethane	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	4	20		
1,2-Dichloropropane	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	5	20		
1,3,5-Trimethylbenzene	0.0531	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
1,3-Dichlorobenzene	0.0499	0.0050	mg/kg wet	0.05000	100	70-130	3	20		



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

1,3-Dichloropropane	0.0524	0.0050	mg/kg wet	0.05000	105	70-130	6	20		
1,4-Dichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000	101	70-130	5	20		
1,4-Dioxane	0.935	0.100	mg/kg wet	1.000	94	70-130	6	20		
2,2-Dichloropropane	0.0569	0.0050	mg/kg wet	0.05000	114	70-130	2	20		
2-Butanone	0.249	0.0100	mg/kg wet	0.2500	100	70-130	4	20		
2-Chlorotoluene	0.0506	0.0050	mg/kg wet	0.05000	101	70-130	3	20		
2-Hexanone	0.237	0.0100	mg/kg wet	0.2500	95	70-130	6	20		
4-Chlorotoluene	0.0517	0.0050	mg/kg wet	0.05000	103	70-130	4	20		
4-Isopropyltoluene	0.0526	0.0050	mg/kg wet	0.05000	105	70-130	5	20		
4-Methyl-2-Pentanone	0.263	0.0100	mg/kg wet	0.2500	105	70-130	6	20		
Acetone	0.249	0.0100	mg/kg wet	0.2500	100	70-130	4	20		
Benzene	0.0522	0.0050	mg/kg wet	0.05000	104	70-130	3	20		
Bromobenzene	0.0514	0.0050	mg/kg wet	0.05000	103	70-130	4	20		
Bromochloromethane	0.0509	0.0050	mg/kg wet	0.05000	102	70-130	4	20		
Bromodichloromethane	0.0532	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Bromoform	0.0504	0.0050	mg/kg wet	0.05000	101	70-130	6	20		
Bromomethane	0.0514	0.0100	mg/kg wet	0.05000	103	70-130	1	20		
Carbon Disulfide	0.0559	0.0050	mg/kg wet	0.05000	112	70-130	3	20		
Carbon Tetrachloride	0.0531	0.0050	mg/kg wet	0.05000	106	70-130	3	20		
Chlorobenzene	0.0496	0.0050	mg/kg wet	0.05000	99	70-130	5	20		
Chloroethane	0.0512	0.0100	mg/kg wet	0.05000	102	70-130	3	20		
Chloroform	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	3	20		
Chloromethane	0.0533	0.0100	mg/kg wet	0.05000	107	70-130	4	20		
cis-1,2-Dichloroethene	0.0547	0.0050	mg/kg wet	0.05000	109	70-130	4	20		
cis-1,3-Dichloropropene	0.0569	0.0050	mg/kg wet	0.05000	114	70-130	5	20		
Dibromochloromethane	0.0500	0.0020	mg/kg wet	0.05000	100	70-130	5	20		
Dibromomethane	0.0516	0.0050	mg/kg wet	0.05000	103	70-130	4	20		
Dichlorodifluoromethane	0.0526	0.0100	mg/kg wet	0.05000	105	70-130	1	20		
Diethyl Ether	0.0548	0.0050	mg/kg wet	0.05000	110	70-130	5	20		
Di-isopropyl ether	0.0532	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Ethyl tertiary-butyl ether	0.0506	0.0050	mg/kg wet	0.05000	101	70-130	5	20		
Ethylbenzene	0.0533	0.0050	mg/kg wet	0.05000	107	70-130	5	20		
Hexachlorobutadiene	0.0522	0.0050	mg/kg wet	0.05000	104	70-130	5	20		
Isopropylbenzene	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Methyl tert-Butyl Ether	0.0546	0.0050	mg/kg wet	0.05000	109	70-130	6	20		
Methylene Chloride	0.0507	0.0100	mg/kg wet	0.05000	101	70-130	5	20		
Naphthalene	0.0548	0.0050	mg/kg wet	0.05000	110	70-130	9	20		
n-Butylbenzene	0.0565	0.0050	mg/kg wet	0.05000	113	70-130	5	20		
n-Propylbenzene	0.0524	0.0050	mg/kg wet	0.05000	105	70-130	2	20		
sec-Butylbenzene	0.0516	0.0050	mg/kg wet	0.05000	103	70-130	3	20		
Styrene	0.0539	0.0050	mg/kg wet	0.05000	108	70-130	6	20		
tert-Butylbenzene	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	4	20		
Tertiary-amyl methyl ether	0.0537	0.0050	mg/kg wet	0.05000	107	70-130	6	20		
Tetrachloroethene	0.0498	0.0050	mg/kg wet	0.05000	100	70-130	3	20		
Tetrahydrofuran	0.0502	0.0050	mg/kg wet	0.05000	100	70-130	3	20		



CERTIFICATE OF ANALYSIS

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Quality Control Data

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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91320 - 5035

Toluene	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	3	20
trans-1,2-Dichloroethene	0.0533	0.0050	mg/kg wet	0.05000	107	70-130	3	20
trans-1,3-Dichloropropene	0.0550	0.0050	mg/kg wet	0.05000	110	70-130	5	20
Trichloroethene	0.0528	0.0050	mg/kg wet	0.05000	106	70-130	3	20
Trichlorofluoromethane	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	3	20
Vinyl Chloride	0.0510	0.0100	mg/kg wet	0.05000	102	70-130	3	20
Xylene O	0.0512	0.0050	mg/kg wet	0.05000	102	70-130	5	20
Xylene P,M	0.105	0.0100	mg/kg wet	0.1000	105	70-130	5	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0477		mg/kg wet	0.05000	95	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0498		mg/kg wet	0.05000	100	70-130		
<i>Surrogate: Dibromofluoromethane</i>	0.0494		mg/kg wet	0.05000	99	70-130		
<i>Surrogate: Toluene-d8</i>	0.0498		mg/kg wet	0.05000	100	70-130		

8082A Polychlorinated Biphenyls (PCB)

Batch CE90808 - 3540C

Blank

Aroclor 1016

ND 0.02 mg/kg wet

Aroclor 1016 [2C]

ND 0.02 mg/kg wet

Aroclor 1221

ND 0.02 mg/kg wet

Aroclor 1221 [2C]

ND 0.02 mg/kg wet

Aroclor 1232

ND 0.02 mg/kg wet

Aroclor 1232 [2C]

ND 0.02 mg/kg wet

Aroclor 1242

ND 0.02 mg/kg wet

Aroclor 1242 [2C]

ND 0.02 mg/kg wet

Aroclor 1248

ND 0.02 mg/kg wet

Aroclor 1248 [2C]

ND 0.02 mg/kg wet

Aroclor 1254

ND 0.02 mg/kg wet

Aroclor 1254 [2C]

ND 0.02 mg/kg wet

Aroclor 1260

ND 0.02 mg/kg wet

Aroclor 1260 [2C]

ND 0.02 mg/kg wet

Aroclor 1262

ND 0.02 mg/kg wet

Aroclor 1262 [2C]

ND 0.02 mg/kg wet

Aroclor 1268

ND 0.02 mg/kg wet

Aroclor 1268 [2C]

ND 0.02 mg/kg wet

Surrogate: Decachlorobiphenyl

0.0215 mg/kg wet 0.02500 86 30-150

Surrogate: Decachlorobiphenyl [2C]

0.0220 mg/kg wet 0.02500 88 30-150

Surrogate: Tetrachloro-m-xylene

0.0177 mg/kg wet 0.02500 71 30-150

Surrogate: Tetrachloro-m-xylene [2C]

0.0212 mg/kg wet 0.02500 85 30-150

LCS

Aroclor 1016

0.4 0.02 mg/kg wet 0.5000 88 40-140

Aroclor 1016 [2C]

0.5 0.02 mg/kg wet 0.5000 99 40-140

Aroclor 1260

0.4 0.02 mg/kg wet 0.5000 82 40-140

Aroclor 1260 [2C]

0.5 0.02 mg/kg wet 0.5000 96 40-140



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



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ESS Laboratory Work Order: 1905253

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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch CE90808 - 3540C

Surrogate: Decachlorobiphenyl	0.0207		mg/kg wet	0.02500	83	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0211		mg/kg wet	0.02500	84	30-150
Surrogate: Tetrachloro-m-xylene	0.0185		mg/kg wet	0.02500	74	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0208		mg/kg wet	0.02500	83	30-150

LCS Dup

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000	90	40-140	2	30
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000	104	40-140	4	30
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000	83	40-140	2	30
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000	100	40-140	4	30

Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500	88	30-150
Surrogate: Decachlorobiphenyl [2C]	0.0219		mg/kg wet	0.02500	88	30-150
Surrogate: Tetrachloro-m-xylene	0.0182		mg/kg wet	0.02500	73	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.0205		mg/kg wet	0.02500	82	30-150

8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Blank									
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet						
1,2-Dichlorobenzene	ND	0.333	mg/kg wet						
1,3-Dichlorobenzene	ND	0.333	mg/kg wet						
1,4-Dichlorobenzene	ND	0.333	mg/kg wet						
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet						
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet						
2,4-Dichlorophenol	ND	0.333	mg/kg wet						
2,4-Dimethylphenol	ND	0.333	mg/kg wet						
2,4-Dinitrophenol	ND	1.67	mg/kg wet						
2,4-Dinitrotoluene	ND	0.333	mg/kg wet						
2,6-Dinitrotoluene	ND	0.333	mg/kg wet						
2-Chloronaphthalene	ND	0.333	mg/kg wet						
2-Chlorophenol	ND	0.333	mg/kg wet						
2-Methylnaphthalene	ND	0.333	mg/kg wet						
2-Methylphenol	ND	0.333	mg/kg wet						
2-Nitrophenol	ND	0.333	mg/kg wet						
3,3'-Dichlorobenzidine	ND	0.333	mg/kg wet						
3+4-Methylphenol	ND	0.667	mg/kg wet						
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet						
4-Chloroaniline	ND	0.333	mg/kg wet						
4-Nitrophenol	ND	1.67	mg/kg wet						
Acenaphthene	ND	0.333	mg/kg wet						
Acenaphthylene	ND	0.333	mg/kg wet						
Acetophenone	ND	0.667	mg/kg wet						
Aniline	ND	1.67	mg/kg wet						
Anthracene	ND	0.333	mg/kg wet						



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ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.333	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.15		mg/kg wet	3.333		64	30-130			
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.26		mg/kg wet	5.000		85	30-130			
<i>Surrogate: 2-Chlorophenol-d4</i>	3.28		mg/kg wet	5.000		66	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.27		mg/kg wet	3.333		68	30-130			
<i>Surrogate: 2-Fluorophenol</i>	3.44		mg/kg wet	5.000		69	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	2.15		mg/kg wet	3.333		64	30-130			
<i>Surrogate: Phenol-d6</i>	3.35		mg/kg wet	5.000		67	30-130			
<i>Surrogate: p-Terphenyl-d14</i>	2.97		mg/kg wet	3.333		89	30-130			

LCS

1,2,4-Trichlorobenzene	2.48	0.333	mg/kg wet	3.333		74	40-140
1,2-Dichlorobenzene	2.39	0.333	mg/kg wet	3.333		72	40-140
1,3-Dichlorobenzene	2.35	0.333	mg/kg wet	3.333		71	40-140
1,4-Dichlorobenzene	2.32	0.333	mg/kg wet	3.333		70	40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

2,4,5-Trichlorophenol	2.80	0.333	mg/kg wet	3.333	84	30-130
2,4,6-Trichlorophenol	2.70	0.333	mg/kg wet	3.333	81	30-130
2,4-Dichlorophenol	2.70	0.333	mg/kg wet	3.333	81	30-130
2,4-Dimethylphenol	2.45	0.333	mg/kg wet	3.333	74	30-130
2,4-Dinitrophenol	2.14	1.67	mg/kg wet	3.333	64	30-130
2,4-Dinitrotoluene	3.17	0.333	mg/kg wet	3.333	95	40-140
2,6-Dinitrotoluene	2.85	0.333	mg/kg wet	3.333	86	40-140
2-Chloronaphthalene	2.36	0.333	mg/kg wet	3.333	71	40-140
2-Chlorophenol	2.37	0.333	mg/kg wet	3.333	71	30-130
2-Methylnaphthalene	2.37	0.333	mg/kg wet	3.333	71	40-140
2-Methylphenol	2.46	0.333	mg/kg wet	3.333	74	30-130
2-Nitrophenol	2.31	0.333	mg/kg wet	3.333	69	30-130
3,3'-Dichlorobenzidine	2.11	0.667	mg/kg wet	3.333	63	40-140
3+4-Methylphenol	5.09	0.667	mg/kg wet	6.667	76	30-130
4-Bromophenyl-phenylether	2.88	0.333	mg/kg wet	3.333	87	40-140
4-Chloroaniline	2.02	0.667	mg/kg wet	3.333	61	40-140
4-Nitrophenol	2.75	1.67	mg/kg wet	3.333	83	30-130
Acenaphthene	2.43	0.333	mg/kg wet	3.333	73	40-140
Acenaphthylene	2.50	0.333	mg/kg wet	3.333	75	40-140
Acetophenone	2.31	0.667	mg/kg wet	3.333	69	40-140
Aniline	2.10	1.67	mg/kg wet	3.333	63	40-140
Anthracene	2.84	0.333	mg/kg wet	3.333	85	40-140
Azobenzene	2.65	0.333	mg/kg wet	3.333	79	40-140
Benzo(a)anthracene	3.09	0.333	mg/kg wet	3.333	93	40-140
Benzo(a)pyrene	2.98	0.167	mg/kg wet	3.333	90	40-140
Benzo(b)fluoranthene	3.13	0.333	mg/kg wet	3.333	94	40-140
Benzo(g,h,i)perylene	3.04	0.333	mg/kg wet	3.333	91	40-140
Benzo(k)fluoranthene	2.97	0.333	mg/kg wet	3.333	89	40-140
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333	72	40-140
bis(2-Chloroethyl)ether	2.37	0.333	mg/kg wet	3.333	71	40-140
bis(2-chloroisopropyl)Ether	2.27	0.333	mg/kg wet	3.333	68	40-140
bis(2-Ethylhexyl)phthalate	3.27	0.333	mg/kg wet	3.333	98	40-140
Butylbenzylphthalate	3.32	0.333	mg/kg wet	3.333	100	40-140
Chrysene	2.98	0.167	mg/kg wet	3.333	89	40-140
Dibenzo(a,h)Anthracene	3.07	0.167	mg/kg wet	3.333	92	40-140
Dibenzofuran	2.54	0.333	mg/kg wet	3.333	76	40-140
Diethylphthalate	3.06	0.333	mg/kg wet	3.333	92	40-140
Dimethylphthalate	2.93	0.333	mg/kg wet	3.333	88	40-140
Di-n-butylphthalate	3.40	0.333	mg/kg wet	3.333	102	40-140
Di-n-octylphthalate	3.23	0.333	mg/kg wet	3.333	97	40-140
Fluoranthene	3.01	0.333	mg/kg wet	3.333	90	40-140
Fluorene	2.72	0.333	mg/kg wet	3.333	82	40-140
Hexachlorobenzene	2.87	0.333	mg/kg wet	3.333	86	40-140
Hexachlorobutadiene	2.42	0.333	mg/kg wet	3.333	72	40-140
Hexachloroethane	2.23	0.333	mg/kg wet	3.333	67	40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90809 - 3546

Indeno(1,2,3-cd)Pyrene	3.04	0.333	mg/kg wet	3.333	91	40-140				
Isophorone	2.14	0.333	mg/kg wet	3.333	64	40-140				
Naphthalene	2.41	0.333	mg/kg wet	3.333	72	40-140				
Nitrobenzene	2.28	0.333	mg/kg wet	3.333	68	40-140				
N-Nitrosodimethylamine	2.20	0.333	mg/kg wet	3.333	66	40-140				
Pentachlorophenol	3.06	1.67	mg/kg wet	3.333	92	30-130				
Phenanthrene	2.79	0.333	mg/kg wet	3.333	84	40-140				
Phenol	2.44	0.333	mg/kg wet	3.333	73	30-130				
Pyrene	3.01	0.333	mg/kg wet	3.333	90	40-140				
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.37		mg/kg wet	3.333	71	30-130				
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.74		mg/kg wet	5.000	95	30-130				
<i>Surrogate: 2-Chlorophenol-d4</i>	3.85		mg/kg wet	5.000	77	30-130				
<i>Surrogate: 2-Fluorobiphenyl</i>	2.58		mg/kg wet	3.333	77	30-130				
<i>Surrogate: 2-Fluorophenol</i>	3.79		mg/kg wet	5.000	76	30-130				
<i>Surrogate: Nitrobenzene-d5</i>	2.43		mg/kg wet	3.333	73	30-130				
<i>Surrogate: Phenol-d6</i>	3.88		mg/kg wet	5.000	78	30-130				
<i>Surrogate: p-Terphenyl-d14</i>	3.22		mg/kg wet	3.333	97	30-130				

LCS Dup

1,2,4-Trichlorobenzene	2.39	0.333	mg/kg wet	3.333	72	40-140	4	30		
1,2-Dichlorobenzene	2.29	0.333	mg/kg wet	3.333	69	40-140	4	30		
1,3-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333	65	40-140	8	30		
1,4-Dichlorobenzene	2.20	0.333	mg/kg wet	3.333	66	40-140	5	30		
2,4,5-Trichlorophenol	2.66	0.333	mg/kg wet	3.333	80	30-130	5	30		
2,4,6-Trichlorophenol	2.59	0.333	mg/kg wet	3.333	78	30-130	4	30		
2,4-Dichlorophenol	2.51	0.333	mg/kg wet	3.333	75	30-130	7	30		
2,4-Dimethylphenol	2.32	0.333	mg/kg wet	3.333	70	30-130	6	30		
2,4-Dinitrophenol	2.22	1.67	mg/kg wet	3.333	66	30-130	4	30		
2,4-Dinitrotoluene	3.10	0.333	mg/kg wet	3.333	93	40-140	2	30		
2,6-Dinitrotoluene	2.74	0.333	mg/kg wet	3.333	82	40-140	4	30		
2-Chloronaphthalene	2.23	0.333	mg/kg wet	3.333	67	40-140	6	30		
2-Chlorophenol	2.17	0.333	mg/kg wet	3.333	65	30-130	9	30		
2-Methylnaphthalene	2.24	0.333	mg/kg wet	3.333	67	40-140	6	30		
2-Methylphenol	2.23	0.333	mg/kg wet	3.333	67	30-130	10	30		
2-Nitrophenol	2.20	0.333	mg/kg wet	3.333	66	30-130	5	30		
3,3'-Dichlorobenzidine	2.16	0.667	mg/kg wet	3.333	65	40-140	2	30		
3+4-Methylphenol	4.66	0.667	mg/kg wet	6.667	70	30-130	9	30		
4-Bromophenyl-phenylether	2.81	0.333	mg/kg wet	3.333	84	40-140	3	30		
4-Chloroaniline	2.12	0.667	mg/kg wet	3.333	64	40-140	5	30		
4-Nitrophenol	2.75	1.67	mg/kg wet	3.333	82	30-130	0.1	30		
Acenaphthene	2.33	0.333	mg/kg wet	3.333	70	40-140	5	30		
Acenaphthylene	2.38	0.333	mg/kg wet	3.333	72	40-140	5	30		
Acetophenone	2.12	0.667	mg/kg wet	3.333	64	40-140	9	30		
Aniline	1.94	1.67	mg/kg wet	3.333	58	40-140	8	30		
Anthracene	2.82	0.333	mg/kg wet	3.333	84	40-140	1	30		
Azobenzene	2.60	0.333	mg/kg wet	3.333	78	40-140	2	30		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CE90809 - 3546										
Benzo(a)anthracene	3.07	0.333	mg/kg wet	3.333	92	40-140	0.8	30		
Benzo(a)pyrene	2.97	0.167	mg/kg wet	3.333	89	40-140	0.6	30		
Benzo(b)fluoranthene	2.89	0.333	mg/kg wet	3.333	87	40-140	8	30		
Benzo(g,h,i)perylene	3.10	0.333	mg/kg wet	3.333	93	40-140	2	30		
Benzo(k)fluoranthene	3.19	0.333	mg/kg wet	3.333	96	40-140	7	30		
bis(2-Chloroethoxy)methane	2.28	0.333	mg/kg wet	3.333	68	40-140	6	30		
bis(2-Chloroethyl)ether	2.18	0.333	mg/kg wet	3.333	65	40-140	8	30		
bis(2-chloroisopropyl)Ether	2.05	0.333	mg/kg wet	3.333	61	40-140	10	30		
bis(2-Ethylhexyl)phthalate	3.12	0.333	mg/kg wet	3.333	94	40-140	5	30		
Butylbenzylphthalate	3.20	0.333	mg/kg wet	3.333	96	40-140	4	30		
Chrysene	2.95	0.167	mg/kg wet	3.333	88	40-140	1	30		
Dibenzo(a,h)Anthracene	3.08	0.167	mg/kg wet	3.333	92	40-140	0.4	30		
Dibenzofuran	2.43	0.333	mg/kg wet	3.333	73	40-140	5	30		
Diethylphthalate	2.99	0.333	mg/kg wet	3.333	90	40-140	3	30		
Dimethylphthalate	2.82	0.333	mg/kg wet	3.333	85	40-140	4	30		
Di-n-butylphthalate	3.30	0.333	mg/kg wet	3.333	99	40-140	3	30		
Di-n-octylphthalate	3.08	0.333	mg/kg wet	3.333	92	40-140	5	30		
Fluoranthene	2.97	0.333	mg/kg wet	3.333	89	40-140	1	30		
Fluorene	2.63	0.333	mg/kg wet	3.333	79	40-140	4	30		
Hexachlorobenzene	2.82	0.333	mg/kg wet	3.333	85	40-140	2	30		
Hexachlorobutadiene	2.32	0.333	mg/kg wet	3.333	70	40-140	4	30		
Hexachloroethane	2.09	0.333	mg/kg wet	3.333	63	40-140	6	30		
Indeno(1,2,3-cd)Pyrene	3.07	0.333	mg/kg wet	3.333	92	40-140	0.9	30		
Isophorone	2.03	0.333	mg/kg wet	3.333	61	40-140	5	30		
Naphthalene	2.30	0.333	mg/kg wet	3.333	69	40-140	4	30		
Nitrobenzene	2.19	0.333	mg/kg wet	3.333	66	40-140	4	30		
N-Nitrosodimethylamine	2.08	0.333	mg/kg wet	3.333	62	40-140	6	30		
Pentachlorophenol	3.09	1.67	mg/kg wet	3.333	93	30-130	1	30		
Phenanthren	2.76	0.333	mg/kg wet	3.333	83	40-140	0.9	30		
Phenol	2.24	0.333	mg/kg wet	3.333	67	30-130	9	30		
Pyrene	2.93	0.333	mg/kg wet	3.333	88	40-140	2	30		
Surrogate: 1,2-Dichlorobenzene-d4	2.16		mg/kg wet	3.333	65	30-130				
Surrogate: 2,4,6-Tribromophenol	4.49		mg/kg wet	5.000	90	30-130				
Surrogate: 2-Chlorophenol-d4	3.43		mg/kg wet	5.000	69	30-130				
Surrogate: 2-Fluorobiphenyl	2.34		mg/kg wet	3.333	70	30-130				
Surrogate: 2-Fluorophenol	3.39		mg/kg wet	5.000	68	30-130				
Surrogate: Nitrobenzene-d5	2.24		mg/kg wet	3.333	67	30-130				
Surrogate: Phenol-d6	3.45		mg/kg wet	5.000	69	30-130				
Surrogate: p-Terphenyl-d14	2.98		mg/kg wet	3.333	89	30-130				
Batch CE90912 - 3546										
Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.167	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

2,4,5-Trichlorophenol	ND	0.333	mg/kg wet
2,4,6-Trichlorophenol	ND	0.167	mg/kg wet
2,4-Dichlorophenol	ND	0.167	mg/kg wet
2,4-Dimethylphenol	ND	0.167	mg/kg wet
2,4-Dinitrophenol	ND	0.667	mg/kg wet
2,4-Dinitrotoluene	ND	0.167	mg/kg wet
2,6-Dinitrotoluene	ND	0.333	mg/kg wet
2-Chloronaphthalene	ND	0.333	mg/kg wet
2-Chlorophenol	ND	0.167	mg/kg wet
2-Methylnaphthalene	ND	0.167	mg/kg wet
2-Methylphenol	ND	0.333	mg/kg wet
2-Nitrophenol	ND	0.333	mg/kg wet
3,3'-Dichlorobenzidine	ND	0.333	mg/kg wet
3+4-Methylphenol	ND	0.667	mg/kg wet
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet
4-Chloroaniline	ND	0.333	mg/kg wet
4-Nitrophenol	ND	1.67	mg/kg wet
Acenaphthene	ND	0.333	mg/kg wet
Acenaphthylene	ND	0.333	mg/kg wet
Acetophenone	ND	0.667	mg/kg wet
Aniline	ND	1.67	mg/kg wet
Anthracene	ND	0.333	mg/kg wet
Azobenzene	ND	0.333	mg/kg wet
Benzo(a)anthracene	ND	0.333	mg/kg wet
Benzo(a)pyrene	ND	0.167	mg/kg wet
Benzo(b)fluoranthene	ND	0.333	mg/kg wet
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet
Benzo(k)fluoranthene	ND	0.333	mg/kg wet
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet
bis(2-Chloroethyl)ether	ND	0.167	mg/kg wet
bis(2-chloroisopropyl)Ether	ND	0.167	mg/kg wet
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet
Butylbenzylphthalate	ND	0.333	mg/kg wet
Chrysene	ND	0.167	mg/kg wet
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet
Dibenzofuran	ND	0.333	mg/kg wet
Diethylphthalate	ND	0.333	mg/kg wet
Dimethylphthalate	ND	0.333	mg/kg wet
Di-n-butylphthalate	ND	0.333	mg/kg wet
Di-n-octylphthalate	ND	0.333	mg/kg wet
Fluoranthene	ND	0.333	mg/kg wet
Fluorene	ND	0.333	mg/kg wet
Hexachlorobenzene	ND	0.167	mg/kg wet
Hexachlorobutadiene	ND	0.333	mg/kg wet
Hexachloroethane	ND	0.167	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	0.667	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.12		mg/kg wet	3.333		63	30-130			
<i>Surrogate: 2,4,6-Tribromophenol</i>	3.79		mg/kg wet	5.000		76	30-130			
<i>Surrogate: 2-Chlorophenol-d4</i>	3.30		mg/kg wet	5.000		66	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.09		mg/kg wet	3.333		63	30-130			
<i>Surrogate: 2-Fluorophenol</i>	3.29		mg/kg wet	5.000		66	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	2.03		mg/kg wet	3.333		61	30-130			
<i>Surrogate: Phenol-d6</i>	3.31		mg/kg wet	5.000		66	30-130			
<i>Surrogate: p-Terphenyl-d14</i>	2.96		mg/kg wet	3.333		89	30-130			

LCS

1,2,4-Trichlorobenzene	2.28	0.333	mg/kg wet	3.333		68	40-140			
1,2-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333		65	40-140			
1,3-Dichlorobenzene	2.12	0.333	mg/kg wet	3.333		64	40-140			
1,4-Dichlorobenzene	2.06	0.167	mg/kg wet	3.333		62	40-140			
2,4,5-Trichlorophenol	2.63	0.333	mg/kg wet	3.333		79	30-130			
2,4,6-Trichlorophenol	2.57	0.167	mg/kg wet	3.333		77	30-130			
2,4-Dichlorophenol	2.40	0.167	mg/kg wet	3.333		72	30-130			
2,4-Dimethylphenol	2.19	0.167	mg/kg wet	3.333		66	30-130			
2,4-Dinitrophenol	2.33	0.667	mg/kg wet	3.333		70	30-130			
2,4-Dinitrotoluene	3.00	0.167	mg/kg wet	3.333		90	40-140			
2,6-Dinitrotoluene	2.76	0.333	mg/kg wet	3.333		83	40-140			
2-Chloronaphthalene	2.14	0.333	mg/kg wet	3.333		64	40-140			
2-Chlorophenol	2.07	0.167	mg/kg wet	3.333		62	30-130			
2-Methylnaphthalene	2.09	0.167	mg/kg wet	3.333		63	40-140			
2-Methylphenol	2.12	0.333	mg/kg wet	3.333		64	30-130			
2-Nitrophenol	2.12	0.333	mg/kg wet	3.333		64	30-130			
3,3'-Dichlorobenzidine	2.05	0.333	mg/kg wet	3.333		61	40-140			
3+4-Methylphenol	4.40	0.667	mg/kg wet	6.667		66	30-130			
4-Bromophenyl-phenylether	2.82	0.333	mg/kg wet	3.333		85	40-140			
4-Chloroaniline	1.93	0.333	mg/kg wet	3.333		58	40-140			
4-Nitrophenol	2.40	1.67	mg/kg wet	3.333		72	30-130			
Acenaphthene	2.24	0.333	mg/kg wet	3.333		67	40-140			
Acenaphthylene	2.32	0.333	mg/kg wet	3.333		69	40-140			
Acetophenone	1.97	0.667	mg/kg wet	3.333		59	40-140			
Aniline	1.73	1.67	mg/kg wet	3.333		52	40-140			
Anthracene	2.72	0.333	mg/kg wet	3.333		82	40-140			
Azobenzene	2.42	0.333	mg/kg wet	3.333		73	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270D Semi-Volatile Organic Compounds										
Batch CE90912 - 3546										
Benzo(a)anthracene	2.89	0.333	mg/kg wet	3.333		87	40-140			
Benzo(a)pyrene	2.75	0.167	mg/kg wet	3.333		83	40-140			
Benzo(b)fluoranthene	2.96	0.333	mg/kg wet	3.333		89	40-140			
Benzo(g,h,i)perylene	2.93	0.333	mg/kg wet	3.333		88	40-140			
Benzo(k)fluoranthene	2.56	0.333	mg/kg wet	3.333		77	40-140			
bis(2-Chloroethoxy)methane	2.09	0.333	mg/kg wet	3.333		63	40-140			
bis(2-Chloroethyl)ether	2.01	0.167	mg/kg wet	3.333		60	40-140			
bis(2-chloroisopropyl)Ether	1.99	0.167	mg/kg wet	3.333		60	40-140			
bis(2-Ethylhexyl)phthalate	3.02	0.333	mg/kg wet	3.333		91	40-140			
Butylbenzylphthalate	3.04	0.333	mg/kg wet	3.333		91	40-140			
Chrysene	2.72	0.167	mg/kg wet	3.333		82	40-140			
Dibenzo(a,h)Anthracene	3.00	0.167	mg/kg wet	3.333		90	40-140			
Dibenzofuran	2.36	0.333	mg/kg wet	3.333		71	40-140			
Diethylphthalate	2.87	0.333	mg/kg wet	3.333		86	40-140			
Dimethylphthalate	2.77	0.333	mg/kg wet	3.333		83	40-140			
Di-n-butylphthalate	3.14	0.333	mg/kg wet	3.333		94	40-140			
Di-n-octylphthalate	2.96	0.333	mg/kg wet	3.333		89	40-140			
Fluoranthene	2.80	0.333	mg/kg wet	3.333		84	40-140			
Fluorene	2.56	0.333	mg/kg wet	3.333		77	40-140			
Hexachlorobenzene	2.81	0.167	mg/kg wet	3.333		84	40-140			
Hexachlorobutadiene	2.26	0.333	mg/kg wet	3.333		68	40-140			
Hexachloroethane	2.01	0.167	mg/kg wet	3.333		60	40-140			
Indeno(1,2,3-cd)Pyrene	2.94	0.333	mg/kg wet	3.333		88	40-140			
Isophorone	1.89	0.333	mg/kg wet	3.333		57	40-140			
Naphthalene	2.14	0.333	mg/kg wet	3.333		64	40-140			
Nitrobenzene	2.03	0.333	mg/kg wet	3.333		61	40-140			
N-Nitrosodimethylamine	1.92	0.333	mg/kg wet	3.333		57	40-140			
Pentachlorophenol	3.06	0.667	mg/kg wet	3.333		92	30-130			
Phenanthren	2.65	0.333	mg/kg wet	3.333		79	40-140			
Phenol	2.08	0.333	mg/kg wet	3.333		62	30-130			
Pyrene	2.78	0.333	mg/kg wet	3.333		83	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.15		mg/kg wet	3.333		65	30-130			
Surrogate: 2,4,6-Tribromophenol	4.67		mg/kg wet	5.000		93	30-130			
Surrogate: 2-Chlorophenol-d4	3.38		mg/kg wet	5.000		68	30-130			
Surrogate: 2-Fluorobiphenyl	2.35		mg/kg wet	3.333		71	30-130			
Surrogate: 2-Fluorophenol	3.38		mg/kg wet	5.000		68	30-130			
Surrogate: Nitrobenzene-d5	2.15		mg/kg wet	3.333		65	30-130			
Surrogate: Phenol-d6	3.38		mg/kg wet	5.000		68	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/kg wet	3.333		90	30-130			
LCS Dup										
1,2,4-Trichlorobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140	14	30	
1,2-Dichlorobenzene	2.48	0.333	mg/kg wet	3.333		74	40-140	13	30	
1,3-Dichlorobenzene	2.41	0.333	mg/kg wet	3.333		72	40-140	13	30	
1,4-Dichlorobenzene	2.46	0.167	mg/kg wet	3.333		74	40-140	18	30	
2,4,5-Trichlorophenol	2.78	0.333	mg/kg wet	3.333		83	30-130	5	30	



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

2,4,6-Trichlorophenol	2.75	0.167	mg/kg wet	3.333	83	30-130	7	30	
2,4-Dichlorophenol	2.63	0.167	mg/kg wet	3.333	79	30-130	9	30	
2,4-Dimethylphenol	2.49	0.167	mg/kg wet	3.333	75	30-130	13	30	
2,4-Dinitrophenol	2.47	0.667	mg/kg wet	3.333	74	30-130	6	30	
2,4-Dinitrotoluene	3.16	0.167	mg/kg wet	3.333	95	40-140	5	30	
2,6-Dinitrotoluene	2.86	0.333	mg/kg wet	3.333	86	40-140	4	30	
2-Chloronaphthalene	2.39	0.333	mg/kg wet	3.333	72	40-140	11	30	
2-Chlorophenol	2.45	0.167	mg/kg wet	3.333	73	30-130	17	30	
2-Methylnaphthalene	2.40	0.167	mg/kg wet	3.333	72	40-140	14	30	
2-Methylphenol	2.49	0.333	mg/kg wet	3.333	75	30-130	16	30	
2-Nitrophenol	2.44	0.333	mg/kg wet	3.333	73	30-130	14	30	
3,3'-Dichlorobenzidine	2.32	0.333	mg/kg wet	3.333	70	40-140	12	30	
3+4-Methylphenol	5.13	0.667	mg/kg wet	6.667	77	30-130	15	30	
4-Bromophenyl-phenylether	2.90	0.333	mg/kg wet	3.333	87	40-140	3	30	
4-Chloroaniline	2.29	0.333	mg/kg wet	3.333	69	40-140	17	30	
4-Nitrophenol	2.57	1.67	mg/kg wet	3.333	77	30-130	7	30	
Acenaphthene	2.43	0.333	mg/kg wet	3.333	73	40-140	8	30	
Acenaphthylene	2.51	0.333	mg/kg wet	3.333	75	40-140	8	30	
Acetophenone	2.34	0.667	mg/kg wet	3.333	70	40-140	17	30	
Aniline	2.17	1.67	mg/kg wet	3.333	65	40-140	23	30	
Anthracene	2.84	0.333	mg/kg wet	3.333	85	40-140	4	30	
Azobenzene	2.52	0.333	mg/kg wet	3.333	75	40-140	4	30	
Benzo(a)anthracene	3.04	0.333	mg/kg wet	3.333	91	40-140	5	30	
Benzo(a)pyrene	2.90	0.167	mg/kg wet	3.333	87	40-140	5	30	
Benzo(b)fluoranthene	3.09	0.333	mg/kg wet	3.333	93	40-140	4	30	
Benzo(g,h,i)perylene	3.05	0.333	mg/kg wet	3.333	92	40-140	4	30	
Benzo(k)fluoranthene	2.74	0.333	mg/kg wet	3.333	82	40-140	7	30	
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333	72	40-140	14	30	
bis(2-Chloroethyl)ether	2.35	0.167	mg/kg wet	3.333	71	40-140	16	30	
bis(2-chloroisopropyl)Ether	2.32	0.167	mg/kg wet	3.333	70	40-140	15	30	
bis(2-Ethylhexyl)phthalate	3.11	0.333	mg/kg wet	3.333	93	40-140	3	30	
Butylbenzylphthalate	3.13	0.333	mg/kg wet	3.333	94	40-140	3	30	
Chrysene	2.89	0.167	mg/kg wet	3.333	87	40-140	6	30	
Dibenzo(a,h)Anthracene	3.11	0.167	mg/kg wet	3.333	93	40-140	4	30	
Dibenzofuran	2.52	0.333	mg/kg wet	3.333	76	40-140	7	30	
Diethylphthalate	2.97	0.333	mg/kg wet	3.333	89	40-140	4	30	
Dimethylphthalate	2.87	0.333	mg/kg wet	3.333	86	40-140	4	30	
Di-n-butylphthalate	3.29	0.333	mg/kg wet	3.333	99	40-140	5	30	
Di-n-octylphthalate	3.13	0.333	mg/kg wet	3.333	94	40-140	6	30	
Fluoranthene	3.02	0.333	mg/kg wet	3.333	90	40-140	7	30	
Fluorene	2.69	0.333	mg/kg wet	3.333	81	40-140	5	30	
Hexachlorobenzene	2.91	0.167	mg/kg wet	3.333	87	40-140	3	30	
Hexachlorobutadiene	2.60	0.333	mg/kg wet	3.333	78	40-140	14	30	
Hexachloroethane	2.30	0.167	mg/kg wet	3.333	69	40-140	14	30	
Indeno(1,2,3-cd)Pyrene	3.07	0.333	mg/kg wet	3.333	92	40-140	4	30	



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

Isophorone	2.14	0.333	mg/kg wet	3.333	64	40-140	12	30
Naphthalene	2.51	0.333	mg/kg wet	3.333	75	40-140	16	30
Nitrobenzene	2.33	0.333	mg/kg wet	3.333	70	40-140	14	30
N-Nitrosodimethylamine	2.33	0.333	mg/kg wet	3.333	70	40-140	20	30
Pentachlorophenol	3.22	0.667	mg/kg wet	3.333	97	30-130	5	30
Phenanthrene	2.77	0.333	mg/kg wet	3.333	83	40-140	4	30
Phenol	2.49	0.333	mg/kg wet	3.333	75	30-130	18	30
Pyrene	2.87	0.333	mg/kg wet	3.333	86	40-140	3	30
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.43		mg/kg wet	3.333	73	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.75		mg/kg wet	5.000	95	30-130		
<i>Surrogate: 2-Chlorophenol-d4</i>	3.92		mg/kg wet	5.000	78	30-130		
<i>Surrogate: 2-Fluorobiphenyl</i>	2.55		mg/kg wet	3.333	76	30-130		
<i>Surrogate: 2-Fluorophenol</i>	3.85		mg/kg wet	5.000	77	30-130		
<i>Surrogate: Nitrobenzene-d5</i>	2.40		mg/kg wet	3.333	72	30-130		
<i>Surrogate: Phenol-d6</i>	3.88		mg/kg wet	5.000	78	30-130		
<i>Surrogate: p-Terphenyl-d14</i>	3.03		mg/kg wet	3.333	91	30-130		

MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90804 - 3546

Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triacontane (C30)	ND	0.5	mg/kg wet							

<i>Surrogate: 1-Chlorooctadecane</i>	1.45	mg/kg wet	2.020	72	40-140
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Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90804 - 3546

Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							

Surrogate: 2-Bromonaphthalene	53.0		mg/L	50.00		106	40-140			
Surrogate: 2-Fluorobiphenyl	50.8		mg/L	50.00		102	40-140			
Surrogate: O-Terphenyl	1.56		mg/kg wet	2.008		78	40-140			

LCS										
C19-C36 Aliphatics1	16.5	15.0	mg/kg wet	16.00		103	40-140			
C9-C18 Aliphatics1	9.1	15.0	mg/kg wet	12.00		76	40-140			
Decane (C10)	0.9	0.5	mg/kg wet	2.000		46	40-140			
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000		52	40-140			
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Hexatriacontane (C36)	1.6	0.5	mg/kg wet	2.000		81	40-140			
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Nonane (C9)	0.7	0.5	mg/kg wet	2.000		36	30-140			
Octacosane (C28)	1.4	0.5	mg/kg wet	2.000		71	40-140			
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		60	40-140			
Triacontane (C30)	1.4	0.5	mg/kg wet	2.000		71	40-140			

Surrogate: 1-Chlorooctadecane	1.53		mg/kg wet	2.020		76	40-140			
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LCS										
2-Methylnaphthalene	1.54	0.20	mg/kg wet	2.000		77	40-140			
Acenaphthene	1.46	0.40	mg/kg wet	2.000		73	40-140			
Acenaphthylene	1.45	0.20	mg/kg wet	2.000		73	40-140			
Anthracene	1.60	0.40	mg/kg wet	2.000		80	40-140			
Benzo(a)anthracene	1.53	0.40	mg/kg wet	2.000		77	40-140			
Benzo(a)pyrene	1.47	0.40	mg/kg wet	2.000		74	40-140			
Benzo(b)fluoranthene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Benzo(g,h,i)perylene	1.59	0.40	mg/kg wet	2.000		79	40-140			
Benzo(k)fluoranthene	1.88	0.40	mg/kg wet	2.000		94	40-140			
C11-C22 Unadjusted Aromatics1	32.8	15.0	mg/kg wet	34.00		97	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE90804 - 3546										
Chrysene	1.84	0.40	mg/kg wet	2.000		92	40-140			
Dibenzo(a,h)Anthracene	1.57	0.20	mg/kg wet	2.000		79	40-140			
Fluoranthene	1.69	0.40	mg/kg wet	2.000		84	40-140			
Fluorene	1.49	0.40	mg/kg wet	2.000		74	40-140			
Indeno(1,2,3-cd)Pyrene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Naphthalene	1.25	0.40	mg/kg wet	2.000		62	40-140			
Phenanthrene	1.50	0.40	mg/kg wet	2.000		75	40-140			
Pyrene	1.57	0.40	mg/kg wet	2.000		78	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>44.6</i>		mg/L	<i>50.00</i>		<i>89</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>53.2</i>		mg/L	<i>50.00</i>		<i>106</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>1.67</i>		mg/kg wet	<i>2.008</i>		<i>83</i>	<i>40-140</i>			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS Dup										
C19-C36 Aliphatics1	18.6	15.0	mg/kg wet	16.00		116	40-140	12	25	
C9-C18 Aliphatics1	10.0	15.0	mg/kg wet	12.00		84	40-140	9	25	
Decane (C10)	1.0	0.5	mg/kg wet	2.000		51	40-140	11	25	
Docosane (C22)	1.6	0.5	mg/kg wet	2.000		80	40-140	8	25	
Dodecane (C12)	1.2	0.5	mg/kg wet	2.000		58	40-140	10	25	
Eicosane (C20)	1.6	0.5	mg/kg wet	2.000		78	40-140	8	25	
Hexacosane (C26)	1.6	0.5	mg/kg wet	2.000		79	40-140	8	25	
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		77	40-140	8	25	
Hexatriacontane (C36)	1.8	0.5	mg/kg wet	2.000		88	40-140	7	25	
Nonadecane (C19)	1.6	0.5	mg/kg wet	2.000		78	40-140	8	25	
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		40	30-140	11	25	
Octacosane (C28)	1.5	0.5	mg/kg wet	2.000		77	40-140	9	25	
Octadecane (C18)	1.6	0.5	mg/kg wet	2.000		78	40-140	7	25	
Tetracosane (C24)	1.6	0.5	mg/kg wet	2.000		81	40-140	8	25	
Tetradecane (C14)	1.3	0.5	mg/kg wet	2.000		66	40-140	10	25	
Triaccontane (C30)	1.5	0.5	mg/kg wet	2.000		77	40-140	8	25	
<i>Surrogate: 1-Chlorooctadecane</i>	<i>1.62</i>		mg/kg wet	<i>2.020</i>		<i>80</i>	<i>40-140</i>			
LCS Dup										
2-Methylnaphthalene	1.73	0.20	mg/kg wet	2.000		86	40-140	12	30	
Acenaphthene	1.61	0.40	mg/kg wet	2.000		81	40-140	10	30	
Acenaphthylene	1.63	0.20	mg/kg wet	2.000		81	40-140	12	30	
Anthracene	1.77	0.40	mg/kg wet	2.000		89	40-140	10	30	
Benzo(a)anthracene	1.60	0.40	mg/kg wet	2.000		80	40-140	4	30	
Benzo(a)pyrene	1.62	0.40	mg/kg wet	2.000		81	40-140	10	30	
Benzo(b)fluoranthene	1.62	0.40	mg/kg wet	2.000		81	40-140	8	30	
Benzo(g,h,i)perylene	1.72	0.40	mg/kg wet	2.000		86	40-140	8	30	
Benzo(k)fluoranthene	2.00	0.40	mg/kg wet	2.000		100	40-140	6	30	
C11-C22 Unadjusted Aromatics1	35.5	15.0	mg/kg wet	34.00		104	40-140	8	25	



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90804 - 3546

Chrysene	1.95	0.40	mg/kg wet	2.000	98	40-140	6	30		
Dibenzo(a,h)Anthracene	1.70	0.20	mg/kg wet	2.000	85	40-140	8	30		
Fluoranthene	1.80	0.40	mg/kg wet	2.000	90	40-140	7	30		
Fluorene	1.62	0.40	mg/kg wet	2.000	81	40-140	8	30		
Indeno(1,2,3-cd)Pyrene	1.71	0.40	mg/kg wet	2.000	86	40-140	8	30		
Naphthalene	1.41	0.40	mg/kg wet	2.000	70	40-140	12	30		
Phenanthrene	1.63	0.40	mg/kg wet	2.000	82	40-140	8	30		
Pyrene	1.69	0.40	mg/kg wet	2.000	85	40-140	8	30		
<i>Surrogate: 2-Bromonaphthalene</i>	<i>51.0</i>		mg/L	<i>50.00</i>	<i>102</i>	<i>40-140</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>54.1</i>		mg/L	<i>50.00</i>	<i>108</i>	<i>40-140</i>				
<i>Surrogate: O-Terphenyl</i>	<i>1.76</i>		mg/kg wet	<i>2.008</i>	<i>88</i>	<i>40-140</i>				

LCS Dup

2-Methylnaphthalene Breakthrough	0.0	%		0-5	200	
Naphthalene Breakthrough	0.0	%		0-5	200	

Batch CE90905 - 3546

Blank										
C19-C36 Aliphatics1	ND	15.0	mg/kg wet							
C9-C18 Aliphatics1	ND	15.0	mg/kg wet							
Decane (C10)	ND	0.5	mg/kg wet							
Docosane (C22)	ND	0.5	mg/kg wet							
Dodecane (C12)	ND	0.5	mg/kg wet							
Eicosane (C20)	ND	0.5	mg/kg wet							
Hexacosane (C26)	ND	0.5	mg/kg wet							
Hexadecane (C16)	ND	0.5	mg/kg wet							
Hexatriacontane (C36)	ND	0.5	mg/kg wet							
Nonadecane (C19)	ND	0.5	mg/kg wet							
Nonane (C9)	ND	0.5	mg/kg wet							
Octacosane (C28)	ND	0.5	mg/kg wet							
Octadecane (C18)	ND	0.5	mg/kg wet							
Tetracosane (C24)	ND	0.5	mg/kg wet							
Tetradecane (C14)	ND	0.5	mg/kg wet							
Triaccontane (C30)	ND	0.5	mg/kg wet							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>1.43</i>		mg/kg wet	<i>2.020</i>	<i>71</i>	<i>40-140</i>				

Blank										
2-Methylnaphthalene	ND	0.20	mg/kg wet							
Acenaphthene	ND	0.40	mg/kg wet							
Acenaphthylene	ND	0.20	mg/kg wet							
Anthracene	ND	0.40	mg/kg wet							
Benzo(a)anthracene	ND	0.40	mg/kg wet							
Benzo(a)pyrene	ND	0.40	mg/kg wet							
Benzo(b)fluoranthene	ND	0.40	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet							
Benzo(k)fluoranthene	ND	0.40	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90905 - 3546

C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet							
Chrysene	ND	0.40	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet							
Fluoranthene	ND	0.40	mg/kg wet							
Fluorene	ND	0.40	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet							
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
<i>Surrogate: 2-Bromonaphthalene</i>	50.5		mg/L	50.00		101	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	52.5		mg/L	50.00		105	40-140			
<i>Surrogate: O-Terphenyl</i>	1.53		mg/kg wet	2.008		76	40-140			

LCS

C19-C36 Aliphatics1	17.6	15.0	mg/kg wet	16.00		110	40-140			
C9-C18 Aliphatics1	9.5	15.0	mg/kg wet	12.00		79	40-140			
Decane (C10)	1.0	0.5	mg/kg wet	2.000		49	40-140			
Docosane (C22)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000		55	40-140			
Eicosane (C20)	1.5	0.5	mg/kg wet	2.000		76	40-140			
Hexacosane (C26)	1.5	0.5	mg/kg wet	2.000		74	40-140			
Hexadecane (C16)	1.5	0.5	mg/kg wet	2.000		73	40-140			
Hexatriacontane (C36)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Nonadecane (C19)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Nonane (C9)	0.8	0.5	mg/kg wet	2.000		39	30-140			
Octacosane (C28)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Octadecane (C18)	1.5	0.5	mg/kg wet	2.000		75	40-140			
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000		77	40-140			
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000		61	40-140			
Triaccontane (C30)	1.5	0.5	mg/kg wet	2.000		73	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	1.58		mg/kg wet	2.020		78	40-140			

LCS

2-Methylnaphthalene	1.62	0.20	mg/kg wet	2.000		81	40-140			
Acenaphthene	1.48	0.40	mg/kg wet	2.000		74	40-140			
Acenaphthylene	1.45	0.20	mg/kg wet	2.000		72	40-140			
Anthracene	1.53	0.40	mg/kg wet	2.000		77	40-140			
Benzo(a)anthracene	1.37	0.40	mg/kg wet	2.000		68	40-140			
Benzo(a)pyrene	1.33	0.40	mg/kg wet	2.000		66	40-140			
Benzo(b)fluoranthene	1.36	0.40	mg/kg wet	2.000		68	40-140			
Benzo(g,h,i)perylene	1.30	0.40	mg/kg wet	2.000		65	40-140			
Benzo(k)fluoranthene	1.60	0.40	mg/kg wet	2.000		80	40-140			
C11-C22 Unadjusted Aromatics1	30.6	15.0	mg/kg wet	34.00		90	40-140			
Chrysene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Dibenzo(a,h)Anthracene	1.28	0.20	mg/kg wet	2.000		64	40-140			
Fluoranthene	1.57	0.40	mg/kg wet	2.000		78	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90905 - 3546

Fluorene	1.47	0.40	mg/kg wet	2.000	73	40-140				
Indeno(1,2,3-cd)Pyrene	1.32	0.40	mg/kg wet	2.000	66	40-140				
Naphthalene	1.35	0.40	mg/kg wet	2.000	67	40-140				
Phenanthrene	1.50	0.40	mg/kg wet	2.000	75	40-140				
Pyrene	1.47	0.40	mg/kg wet	2.000	73	40-140				

Surrogate: 2-Bromonaphthalene 42.5 mg/L 50.00 85 40-140

Surrogate: 2-Fluorobiphenyl 50.8 mg/L 50.00 102 40-140

Surrogate: O-Terphenyl 1.57 mg/kg wet 2.008 78 40-140

LCS

2-Methylnaphthalene Breakthrough	0.0	%	0-5							
Naphthalene Breakthrough	0.0	%	0-5							

LCS Dup

C19-C36 Aliphatics1	16.8	15.0	mg/kg wet	16.00	105	40-140	5	25		
C9-C18 Aliphatics1	9.3	15.0	mg/kg wet	12.00	77	40-140	2	25		
Decane (C10)	0.9	0.5	mg/kg wet	2.000	45	40-140	9	25		
Docosane (C22)	1.5	0.5	mg/kg wet	2.000	73	40-140	6	25		
Dodecane (C12)	1.0	0.5	mg/kg wet	2.000	52	40-140	5	25		
Eicosane (C20)	1.4	0.5	mg/kg wet	2.000	72	40-140	5	25		
Hexacosane (C26)	1.4	0.5	mg/kg wet	2.000	70	40-140	6	25		
Hexadecane (C16)	1.4	0.5	mg/kg wet	2.000	70	40-140	3	25		
Hexatriacontane (C36)	1.5	0.5	mg/kg wet	2.000	76	40-140	9	25		
Nonadecane (C19)	1.4	0.5	mg/kg wet	2.000	71	40-140	5	25		
Nonane (C9)	0.7	0.5	mg/kg wet	2.000	35	30-140	9	25		
Octacosane (C28)	1.4	0.5	mg/kg wet	2.000	68	40-140	6	25		
Octadecane (C18)	1.4	0.5	mg/kg wet	2.000	72	40-140	5	25		
Tetracosane (C24)	1.5	0.5	mg/kg wet	2.000	73	40-140	6	25		
Tetradecane (C14)	1.2	0.5	mg/kg wet	2.000	59	40-140	3	25		
Triacontane (C30)	1.3	0.5	mg/kg wet	2.000	67	40-140	8	25		

Surrogate: 1-Chlorooctadecane 1.45 mg/kg wet 2.020 72 40-140

LCS Dup

2-Methylnaphthalene	1.63	0.20	mg/kg wet	2.000	81	40-140	0.6	30		
Acenaphthene	1.48	0.40	mg/kg wet	2.000	74	40-140	0.1	30		
Acenaphthylene	1.49	0.20	mg/kg wet	2.000	74	40-140	3	30		
Anthracene	1.56	0.40	mg/kg wet	2.000	78	40-140	2	30		
Benzo(a)anthracene	1.44	0.40	mg/kg wet	2.000	72	40-140	5	30		
Benzo(a)pyrene	1.42	0.40	mg/kg wet	2.000	71	40-140	7	30		
Benzo(b)fluoranthene	1.39	0.40	mg/kg wet	2.000	70	40-140	2	30		
Benzo(g,h,i)perylene	1.40	0.40	mg/kg wet	2.000	70	40-140	7	30		
Benzo(k)fluoranthene	1.72	0.40	mg/kg wet	2.000	86	40-140	7	30		
C11-C22 Unadjusted Aromatics1	32.6	15.0	mg/kg wet	34.00	96	40-140	6	25		
Chrysene	1.70	0.40	mg/kg wet	2.000	85	40-140	7	30		
Dibenzo(a,h)Anthracene	1.37	0.20	mg/kg wet	2.000	69	40-140	7	30		
Fluoranthene	1.59	0.40	mg/kg wet	2.000	80	40-140	2	30		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE90905 - 3546

Fluorene	1.45	0.40	mg/kg wet	2.000	72	40-140	1	30		
Indeno(1,2,3-cd)Pyrene	1.40	0.40	mg/kg wet	2.000	70	40-140	6	30		
Naphthalene	1.31	0.40	mg/kg wet	2.000	66	40-140	3	30		
Phenanthrene	1.50	0.40	mg/kg wet	2.000	75	40-140	0.2	30		
Pyrene	1.52	0.40	mg/kg wet	2.000	76	40-140	3	30		

Surrogate: 2-Bromonaphthalene 41.7 mg/L 50.00 83 40-140

Surrogate: 2-Fluorobiphenyl 51.3 mg/L 50.00 103 40-140

Surrogate: O-Terphenyl 1.55 mg/kg wet 2.008 77 40-140

LCS Dup

2-Methylnaphthalene Breakthrough	0.0	%	0-5	200
Naphthalene Breakthrough	0.0	%	0-5	200



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
ICV+	Initial Calibration Verification recovery is above upper control limit (ICV+).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905253

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Green Environmental, Inc. - TB/HDM
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 1905253
 Date Received: 5/8/2019
 Project Due Date: 5/15/2019
 Days for Project: 5 Day

- | | | | |
|---|------------------------------|---|---|
| 1. Air bill manifest present?
Air No.: <u>NA</u> | <input type="checkbox"/> No | 6. Does COC match bottles? | <input type="checkbox"/> Yes |
| 2. Were custody seals present? | <input type="checkbox"/> No | 7. Is COC complete and correct? | <input type="checkbox"/> Yes |
| 3. Is radiation count <100 CPM? | <input type="checkbox"/> Yes | 8. Were samples received intact? | <input type="checkbox"/> Yes |
| 4. Is a Cooler Present?
Temp: <u>1.8</u> Iced with: <u>Ice</u> | <input type="checkbox"/> Yes | 9. Were labs informed about <u>short holds & rushes</u> ? | <input type="checkbox"/> Yes / No <u>NA</u> |
| 5. Was COC signed and dated by client? | <input type="checkbox"/> Yes | 10. Were any analyses received outside of hold time? | <input type="checkbox"/> Yes <u>No</u> |
-

- | | | | |
|--|--|---|--|
| 11. Any Subcontracting needed?
ESS Sample IDs:
Analysis:
TAT: | <input type="checkbox"/> Yes <u>No</u> | 12. Were VOAs received?
a. Air bubbles in aqueous VOAs?
b. Does methanol cover soil completely? | <input type="checkbox"/> Yes / No
<input type="checkbox"/> Yes / No
<input type="checkbox"/> Yes / No / NA |
|--|--|---|--|

13. Are the samples properly preserved?
 a. If metals preserved upon receipt:
 b. Low Level VOA vials frozen:

Yes / No
Date: 5/8/19
Date: 5/8/19

Time: 1840

By: AF

Sample Receiving Notes:

14. Was there a need to contact Project Manager?
 a. Was there a need to contact the client?
 Who was contacted? _____ Date: _____ Time: _____ By: _____
-
-

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	342485	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
01	342496	Yes	NA	Yes	VOA Vial - Other	Other	
01	342497	Yes	NA	Yes	VOA Vial - Other	Other	
01	342508	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	342509	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
02	342484	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
02	342494	Yes	NA	Yes	VOA Vial - Other	Other	
02	342495	Yes	NA	Yes	VOA Vial - Other	Other	
02	342506	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
03	342483	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
03	342492	Yes	NA	Yes	VOA Vial - Other	Other	
03	342493	Yes	NA	Yes	VOA Vial - Other	Other	
03	342504	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
04	342482	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
04	342490	Yes	NA	Yes	VOA Vial - Other	Other	
04	342491	Yes	NA	Yes	VOA Vial - Other	Other	
04	342502	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
04	342503	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
05	342481	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
05	342488	Yes	NA	Yes	VOA Vial - Other	Other	
05	342489	Yes	NA	Yes	VOA Vial - Other	Other	
05	342500	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
05	342501	Yes	NA	Yes	8 oz. Jar - Unpres	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Green Environmental, Inc. - TB/HDM				ESS Project ID:	1905253
					Date Received:	5/8/2019
06	342480	Yes	NA	Yes	VOA Vial - Methanol	MeOH
06	342486	Yes	NA	Yes	VOA Vial - Other	Other
06	342487	Yes	NA	Yes	VOA Vial - Other	Other
06	342498	Yes	NA	Yes	8 oz. Jar - Unpres	NP
06	342499	Yes	NA	Yes	8 oz. Jar - Unpres	NP

2nd Review

Were all containers scanned into storage/lab?

Initials JK

Yes No

Are barcode labels on correct containers?

Yes / No / NA

Are all Flashpoint stickers attached/container ID # circled?

Yes / No / NA

Are all Hex Chrome stickers attached?

Yes / No / NA

Are all QC stickers attached?

Yes / No / NA

Are VOA stickers attached if bubbles noted?

Yes / No / NA

Completed
By:

Date & Time: 5/8/19 1822

Reviewed
By:

Date & Time: 5/8/19 1840

Delivered
By:

5/8/19 1840

ESS Laboratory

Division of Thielisch Engineering, Inc.
 185 Frances Avenue, Cranston RI 02910
 Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab #

1905253

Reporting Limits

RCS-1

Electronic Deliverables

 Data Checker Excel Other (Please Specify →)

PDF

Company Name
Green Environmental, Inc.

Turn Time 5 Days

Regulatory State MA

Is this project for any of the following?:

 CT RCP MA MCP RGP

Project #

19137

Project Name

Bliss Corner

Contact Person

Parrish Smolcha

Address

296C Weymouth Street

City

MA

State

Zip Code

02370

PO #

Telephone Number

617-479-0550

FAX Number

617-479-5150

Email Address

psmolcha@greenenvironmental.com

ESS Lab ID Collection Date Collection Time Sample Type Sample Matrix Sample ID

1 5/7/19 8:45 composite Soil B-6 (0-5')

 VOC SVOC PCB 14 wet methods EPIC carbon chain

2 9:45 | | B-15 (8"-13")

 VOC SVOC PCB 14 wet methods EPIC carbon chain

3 10:45 | | B-19 (12"-19")

 VOC SVOC PCB 14 wet methods EPIC carbon chain

4 12:00 | | B-14 (0-5')

 VOC SVOC PCB 14 wet methods EPIC carbon chain

5 13:30 | | B-17 (0-5')

 VOC SVOC PCB 14 wet methods EPIC carbon chain

6 14:45 | | B-13 (0-5')

 VOC SVOC PCB 14 wet methods EPIC carbon chain

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial

 V AG A6 A6 A6

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

 7 10 10 10 10

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAcet, NaOH 9-NH4Cl 10-DI H2O 11-Other*

 6/11 1 1 1 1

Number of Containers per Sample: 3 1-2 1-2 1-2 1-2

Laboratory Use Only

Sampled by: PCS & AL

Cooler Present:

 Drop Off

Comments: Please specify "Other" preservative and containers types in this space

Seals Intact:

 Pickup

Cooler Temperature: 1.8 °C ICE RC

Relinquished by: (Signature, Date & Time)

Received By: (Signature, Date & Time)

Relinquished By: (Signature, Date & Time)

Received By: (Signature, Date & Time)

5/8/19 1107

Det 5/8/19 1806

Relinquished by: (Signature, Date & Time)

Received By: (Signature, Date & Time)

Relinquished By: (Signature, Date & Time)

Received By: (Signature, Date & Time)



CERTIFICATE OF ANALYSIS

Parrish Smolcha
Green Environmental, Inc.
296 Weymouth Street Unit C
Rockland, MA 02370

RE: Bliss Corner (19137)
ESS Laboratory Work Order Number: 1905331

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 1:07 pm, May 17, 2019

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

SAMPLE RECEIPT

The following samples were received on May 09, 2019 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Low Level VOA vials were frozen by ESS Laboratory on May 09, 2019 at 19:29.

Lab Number	Sample Name	Matrix	Analysis
1905331-01	B-4 3-14in	Soil	6010C, 6020A, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905331-02	B-10 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905331-03	B-3 6-31in	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905331-04	B-16 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905331-05	B-9 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH
1905331-06	B-8 0-5ft	Soil	6010C, 7471B, 8082A, 8260B Low, 8270D, EPH8270, MADEP-EPH



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

C9E0250-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

2,2-Dichloropropane (24% @ 20%), Bromomethane (24% @ 20%), Carbon Tetrachloride (21% @ 20%)

8270D Semi-Volatile Organic Compounds

C9E0138-CCV1 [Calibration required quadratic regression \(Q\).](#)

2,4-Dinitrophenol (84% @ 80-120%), Pentachlorophenol (106% @ 80-120%)

C9E0203-CCV1 [Calibration required quadratic regression \(Q\).](#)

2,4-Dinitrophenol (101% @ 80-120%), 4-Bromophenyl-phenylether (93% @ 80-120%),

Pentachlorophenol (117% @ 80-120%)

C9E0203-CCV1 [Initial Calibration Verification recovery is above upper control limit \(ICV+\).](#)

4-Bromophenyl-phenylether

MADEP-EPH Extractable Petroleum Hydrocarbons

C9E0230-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

Hexatriacontane (C36) (55% @ 25%)

C9E0230-CCV2 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

Hexatriacontane (C36) (59% @ 25%)

C9E0230-CCV3 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

Hexatriacontane (C36) (42% @ 25%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



ESS Laboratory

Division of Thielsch Engineering, Inc.

BAL Laboratory

*The Microbiology Division
of Thielsch Engineering, Inc.*



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **1905331-01 through 1905331-06**

Matrices: () Ground Water/Surface Water () Soil/Sediment () Drinking Water () Air () Other: _____

CAM Protocol (check all that apply below):

(X) 8260 VOC CAM II A	(X) 7470/7471 Hg CAM III B	(<input type="checkbox"/>) MassDEP VPH (GC/PID/FID) CAM IV A	(X) 8082 PCB CAM V A	(<input type="checkbox"/>) 9014 Total Cyanide/PAC CAM VI A	(<input type="checkbox"/>) 6860 Perchlorate CAM VIII B
(X) 8270 SVOC CAM II B	(<input type="checkbox"/>) 7010 Metals CAM III C	(<input type="checkbox"/>) MassDEP VPH (GC/MS) CAM IV C	(<input type="checkbox"/>) 8081 Pesticides CAM V B	(<input type="checkbox"/>) 7196 Hex Cr CAM VI B	(<input type="checkbox"/>) MassDEP APH CAM IX A
(X) 6010 Metals CAM III A	(X) 6020 Metals CAM III D	(X) MassDEP EPH CAM IV B	(<input type="checkbox"/>) 8151 Herbicides CAM V C	(<input type="checkbox"/>) Explosives CAM VIII A	(<input type="checkbox"/>) TO-15 VOC CAM IX B

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

- A Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? Yes (X) No ()
- B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed? Yes (X) No ()
- C Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? Yes (X) No ()
- D Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? Yes (X) No ()
- E VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).
b. APH and TO-15 Methods only: Was the complete analyte list reported for each method? Yes () No ()
- F Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)? Yes (X) No ()

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

- G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? Yes (X) No ()*
- Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.
- H Were all QC performance standards specified in the CAM protocol(s) achieved? Yes () No (X)*
- I Were results reported for the complete analyte list specified in the selected CAM protocol(s)? Yes (X) No ()*

***All negative responses must be addressed in an attached laboratory narrative.**

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Laurel Stoddard

Printed Name: Laurel Stoddard

Date: May 17, 2019

Position: Laboratory Director



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (0.45)		6020A		1	KJK	05/14/19 12:57	2.73	100	CE91031
Arsenic	5.28 (2.24)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Barium	29.2 (2.24)		6010C		1	KJK	05/15/19 0:55	2.73	100	CE91031
Beryllium	0.34 (0.10)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Cadmium	ND (0.45)		6010C		1	KJK	05/15/19 0:55	2.73	100	CE91031
Chromium	6.93 (0.90)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Lead	33.8 (4.48)		6010C		1	KJK	05/15/19 0:55	2.73	100	CE91031
Mercury	0.112 (0.024)		7471B		1	MKS	05/14/19 10:02	1.01	40	CE91030
Nickel	9.37 (2.24)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Selenium	ND (4.48)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Silver	ND (0.45)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Thallium	ND (4.48)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Vanadium	13.2 (0.90)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031
Zinc	124 (2.24)		6010C		1	NAR	05/13/19 23:59	2.73	100	CE91031



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 7.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,1,1-Trichloroethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,1,2,2-Tetrachloroethane	ND (0.0016)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,1,2-Trichloroethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,1-Dichloroethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,1-Dichloroethene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,1-Dichloropropene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2,3-Trichlorobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2,3-Trichloropropane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2,4-Trichlorobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2,4-Trimethylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2-Dibromo-3-Chloropropane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2-Dibromoethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2-Dichlorobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2-Dichloroethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,2-Dichloropropane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,3,5-Trimethylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,3-Dichlorobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,3-Dichloropropane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,4-Dichlorobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
1,4-Dioxane	ND (0.0785)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
2,2-Dichloropropane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
2-Butanone	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
2-Chlorotoluene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
2-Hexanone	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
4-Chlorotoluene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
4-Isopropyltoluene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
4-Methyl-2-Pentanone	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Acetone	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Benzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Bromobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Bromochloromethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 7.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Bromoform	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Bromomethane	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Carbon Disulfide	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Carbon Tetrachloride	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Chlorobenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Chloroethane	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Chloroform	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Chloromethane	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
cis-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
cis-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Dibromochloromethane	ND (0.0016)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Dibromomethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Dichlorodifluoromethane	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Diethyl Ether	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Di-isopropyl ether	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Ethyl tertiary-butyl ether	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Ethylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Hexachlorobutadiene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Isopropylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Methyl tert-Butyl Ether	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Methylene Chloride	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Naphthalene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
n-Butylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
n-Propylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
sec-Butylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Styrene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
tert-Butylbenzene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Tertiary-amyl methyl ether	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Tetrachloroethene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Tetrahydrofuran	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Toluene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 7.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
trans-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Trichloroethene	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Trichlorofluoromethane	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Vinyl Chloride	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Xylene O	ND (0.0039)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Xylene P,M	ND (0.0078)		8260B Low		1	05/15/19 11:30	C9E0250	CE91531
Xylenes (Total)	ND (0.0078)		8260B Low		1	05/15/19 11:30		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		123 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		97 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		109 %		70-130				
<i>Surrogate: Toluene-d8</i>		98 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 19.5

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1221	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1232	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1242	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1248	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1254	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1260	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1262	ND (0.06)		8082A		1	05/15/19 8:29		CE91306
Aroclor 1268	ND (0.06)		8082A		1	05/15/19 8:29		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	74 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 15

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,4-Dinitrophenol	ND (2.04)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2-Chloronaphthalene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2-Chlorophenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2-Methylnaphthalene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2-Methylphenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
2-Nitrophenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.816)		8270D		1	05/13/19 20:19	C9E0203	CE90912
3+4-Methylphenol	ND (0.816)		8270D		1	05/13/19 20:19	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
4-Chloroaniline	ND (0.816)		8270D		1	05/13/19 20:19	C9E0203	CE90912
4-Nitrophenol	ND (2.04)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Acenaphthene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Acenaphthylene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Acetophenone	ND (0.816)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Aniline	ND (2.04)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Anthracene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Azobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Benzo(a)anthracene	1.11 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Benzo(a)pyrene	1.28 (0.204)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Benzo(b)fluoranthene	1.31 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Benzo(g,h,i)perylene	0.885 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Benzo(k)fluoranthene	0.943 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 15

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Butylbenzylphthalate	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Chrysene	1.46 (0.204)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Dibenzo(a,h)Anthracene	0.248 (0.204)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Dibenzofuran	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Diethylphthalate	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Dimethylphthalate	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Di-n-butylphthalate	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Di-n-octylphthalate	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Fluoranthene	2.85 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Fluorene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Hexachlorobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Hexachlorobutadiene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Hexachloroethane	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Indeno(1,2,3-ed)Pyrene	0.790 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Isophorone	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Naphthalene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Nitrobenzene	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Pentachlorophenol	ND (2.04)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Phenanthrene	2.21 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Phenol	ND (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912
Pyrene	3.32 (0.408)		8270D		1	05/13/19 20:19	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	61 %		30-130
Surrogate: 2,4,6-Tribromophenol	72 %		30-130
Surrogate: 2-Chlorophenol-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	64 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 15

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		66 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		64 %		30-130				
<i>Surrogate: Phenol-d6</i>		71 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		92 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-4 3-14in

Date Sampled: 05/08/19 09:50

Percent Solids: 82

Initial Volume: 25.1

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-01

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/13/19 12:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (18.3)		MADEP-EPH		1	CAD	05/14/19 20:22	C9E0230	CE91304
C19-C36 Aliphatics1	ND (18.3)		MADEP-EPH		1	CAD	05/14/19 20:22	C9E0230	CE91304
C11-C22 Unadjusted Aromatics1	66.5 (18.3)		EPH8270		1	VSC	05/14/19 5:11	C9E0188	CE91304
C11-C22 Aromatics1,2	51.4 (18.3)		EPH8270			VSC	05/14/19 5:11		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	67 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	95 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	96 %		40-140
<i>Surrogate: O-Terphenyl</i>	75 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (2.97)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Arsenic	1.88 (1.48)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Barium	8.94 (1.48)		6010C		1	KJK	05/15/19 0:59	3.68	100	CE91031
Beryllium	0.22 (0.07)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Cadmium	ND (0.30)		6010C		1	KJK	05/15/19 0:59	3.68	100	CE91031
Chromium	4.25 (0.59)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Lead	ND (2.97)		6010C		1	KJK	05/15/19 0:59	3.68	100	CE91031
Mercury	ND (0.018)		7471B		1	MKS	05/14/19 10:04	1.18	40	CE91030
Nickel	3.36 (1.48)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Selenium	ND (2.97)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Silver	ND (0.30)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Thallium	ND (2.97)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Vanadium	6.36 (0.59)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031
Zinc	15.0 (1.48)		6010C		1	NAR	05/14/19 0:03	3.68	100	CE91031



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 9.5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,1,1-Trichloroethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,1,2,2-Tetrachloroethane	ND (0.0012)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,1,2-Trichloroethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,1-Dichloroethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,1-Dichloroethene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,1-Dichloropropene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2,3-Trichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2,3-Trichloropropane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2,4-Trichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2,4-Trimethylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2-Dibromo-3-Chloropropane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2-Dibromoethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2-Dichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2-Dichloroethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,2-Dichloropropane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,3,5-Trimethylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,3-Dichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,3-Dichloropropane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,4-Dichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
1,4-Dioxane	ND (0.0575)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
2,2-Dichloropropane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
2-Butanone	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
2-Chlorotoluene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
2-Hexanone	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
4-Chlorotoluene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
4-Isopropyltoluene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
4-Methyl-2-Pentanone	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Acetone	0.0075 (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Benzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Bromobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Bromochloromethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 9.5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Bromoform	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Bromomethane	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Carbon Disulfide	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Carbon Tetrachloride	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Chlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Chloroethane	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Chloroform	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Chloromethane	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
cis-1,2-Dichloroethene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
cis-1,3-Dichloropropene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Dibromochloromethane	ND (0.0012)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Dibromomethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Dichlorodifluoromethane	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Diethyl Ether	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Di-isopropyl ether	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Ethyl tertiary-butyl ether	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Ethylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Hexachlorobutadiene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Isopropylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Methyl tert-Butyl Ether	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Methylene Chloride	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Naphthalene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
n-Butylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
n-Propylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
sec-Butylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Styrene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
tert-Butylbenzene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Tertiary-amyl methyl ether	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Tetrachloroethene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Tetrahydrofuran	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Toluene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 9.5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
trans-1,3-Dichloropropene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Trichloroethene	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Trichlorofluoromethane	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Vinyl Chloride	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Xylene O	ND (0.0029)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Xylene P,M	ND (0.0058)		8260B Low		1	05/15/19 11:56	C9E0250	CE91531
Xylenes (Total)	ND (0.0058)		8260B Low		1	05/15/19 11:56		[CALC]
		%Recovery	Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %		70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>		98 %		70-130				
<i>Surrogate: Dibromofluoromethane</i>		108 %		70-130				
<i>Surrogate: Toluene-d8</i>		97 %		70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 20.1

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1221	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1232	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1242	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1248	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1254	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1260	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1262	ND (0.05)		8082A		1	05/15/19 8:49		CE91306
Aroclor 1268	ND (0.05)		8082A		1	05/15/19 8:49		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	91 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	93 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	88 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	92 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 14.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,4-Dinitrophenol	ND (1.87)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2-Chloronaphthalene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2-Chlorophenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2-Methylnaphthalene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2-Methylphenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
2-Nitrophenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.749)		8270D		1	05/13/19 20:47	C9E0203	CE90912
3+4-Methylphenol	ND (0.749)		8270D		1	05/13/19 20:47	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
4-Chloroaniline	ND (0.749)		8270D		1	05/13/19 20:47	C9E0203	CE90912
4-Nitrophenol	ND (1.87)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Acenaphthene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Acenaphthylene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Acetophenone	ND (0.749)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Aniline	ND (1.87)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Anthracene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Azobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Benzo(a)anthracene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Benzo(a)pyrene	ND (0.187)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Benzo(b)fluoranthene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Benzo(g,h,i)perylene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Benzo(k)fluoranthene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 14.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Butylbenzylphthalate	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Chrysene	ND (0.187)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Dibenzo(a,h)Anthracene	ND (0.187)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Dibenzofuran	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Diethylphthalate	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Dimethylphthalate	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Di-n-butylphthalate	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Di-n-octylphthalate	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Fluoranthene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Fluorene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Hexachlorobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Hexachlorobutadiene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Hexachloroethane	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Isophorone	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Naphthalene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Nitrobenzene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Pentachlorophenol	ND (1.87)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Phenanthrene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Phenol	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912
Pyrene	ND (0.374)		8270D		1	05/13/19 20:47	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	70 %		30-130
Surrogate: 2,4,6-Tribromophenol	76 %		30-130
Surrogate: 2-Chlorophenol-d4	76 %		30-130
Surrogate: 2-Fluorobiphenyl	72 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 14.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		79 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		73 %		30-130				
<i>Surrogate: Phenol-d6</i>		82 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		91 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-10 0-5ft

Date Sampled: 05/08/19 13:30

Percent Solids: 92

Initial Volume: 25.9

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-02

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/13/19 12:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (15.8)		MADEP-EPH		1	CAD	05/14/19 21:09	C9E0230	CE91304
C19-C36 Aliphatics1	ND (15.8)		MADEP-EPH		1	CAD	05/14/19 21:09	C9E0230	CE91304
C11-C22 Unadjusted Aromatics1	ND (15.8)		EPH8270		1	VSC	05/14/19 5:48	C9E0188	CE91304
C11-C22 Aromatics1,2	ND (15.8)		EPH8270			VSC	05/14/19 5:48		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	76 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	88 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	91 %		40-140
<i>Surrogate: O-Terphenyl</i>	79 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (3.90)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Arsenic	2.79 (1.95)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Barium	16.3 (1.95)		6010C		1	KJK	05/15/19 1:15	2.92	100	CE91031
Beryllium	0.25 (0.09)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Cadmium	ND (0.39)		6010C		1	KJK	05/15/19 1:15	2.92	100	CE91031
Chromium	7.00 (0.78)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Lead	9.06 (3.90)		6010C		1	KJK	05/15/19 1:15	2.92	100	CE91031
Mercury	ND (0.022)		7471B		1	MKS	05/14/19 10:06	1.03	40	CE91030
Nickel	4.55 (1.95)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Selenium	ND (3.90)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Silver	ND (0.39)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Thallium	ND (3.90)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Vanadium	8.65 (0.78)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031
Zinc	77.1 (1.95)		6010C		1	NAR	05/14/19 0:07	2.92	100	CE91031



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 8.5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,1,1-Trichloroethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,1,2-Trichloroethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,1-Dichloroethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,1-Dichloroethene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,1-Dichloropropene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2,3-Trichlorobenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2,3-Trichloropropane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2,4-Trichlorobenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2,4-Trimethylbenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2-Dibromo-3-Chloropropane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2-Dibromoethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2-Dichlorobenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2-Dichloroethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,2-Dichloropropane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,3,5-Trimethylbenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,3-Dichlorobenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,3-Dichloropropane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,4-Dichlorobenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
1,4-Dioxane	ND (0.0670)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
2,2-Dichloropropane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
2-Butanone	ND (0.0067)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
2-Chlorotoluene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
2-Hexanone	ND (0.0067)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
4-Chlorotoluene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
4-Isopropyltoluene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
4-Methyl-2-Pentanone	ND (0.0067)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Acetone	0.0083 (0.0067)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Benzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Bromobenzene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Bromochloromethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 8.5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Bromoform	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Bromomethane	ND (0.0067)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Carbon Disulfide	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Carbon Tetrachloride	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Chlorobenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Chloroethane	ND (0.0067)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Chloroform	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Chloromethane	ND (0.0067)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
cis-1,2-Dichloroethene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
cis-1,3-Dichloropropene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Dibromochloromethane	ND (0.0013)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Dibromomethane	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Dichlorodifluoromethane	ND (0.0067)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Diethyl Ether	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Di-isopropyl ether	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Ethyl tertiary-butyl ether	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Ethylbenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Hexachlorobutadiene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Isopropylbenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Methyl tert-Butyl Ether	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Methylene Chloride	ND (0.0067)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Naphthalene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
n-Butylbenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
n-Propylbenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
sec-Butylbenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Styrene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
tert-Butylbenzene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Tertiary-amyl methyl ether	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Tetrachloroethene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Tetrahydrofuran	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531
Toluene	ND (0.0033)		8260B Low	1		05/15/19 12:22	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 8.5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
trans-1,3-Dichloropropene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Trichloroethene	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Trichlorofluoromethane	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Vinyl Chloride	ND (0.0067)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Xylene O	ND (0.0033)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Xylene P,M	ND (0.0067)		8260B Low		1	05/15/19 12:22	C9E0250	CE91531
Xylenes (Total)	ND (0.0067)		8260B Low		1	05/15/19 12:22		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	123 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	111 %		70-130
<i>Surrogate: Toluene-d8</i>	96 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 19.4

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MJV

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1221	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1232	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1242	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1248	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1254	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1260	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1262	ND (0.06)		8082A		1	05/15/19 9:08		CE91306
Aroclor 1268	ND (0.06)		8082A		1	05/15/19 9:08		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	105 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	108 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	82 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	88 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 15.1

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,4-Dinitrophenol	ND (1.89)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2-Chloronaphthalene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2-Chlorophenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2-Methylnaphthalene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2-Methylphenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
2-Nitrophenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.755)		8270D		1	05/13/19 21:16	C9E0203	CE90912
3+4-Methylphenol	ND (0.755)		8270D		1	05/13/19 21:16	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
4-Chloroaniline	ND (0.755)		8270D		1	05/13/19 21:16	C9E0203	CE90912
4-Nitrophenol	ND (1.89)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Acenaphthene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Acenaphthylene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Acetophenone	ND (0.755)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Aniline	ND (1.89)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Anthracene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Azobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Benzo(a)anthracene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Benzo(a)pyrene	ND (0.189)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Benzo(b)fluoranthene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Benzo(g,h,i)perylene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Benzo(k)fluoranthene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 15.1

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Butylbenzylphthalate	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Chrysene	ND (0.189)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Dibenz(a,h)Anthracene	ND (0.189)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Dibenzofuran	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Diethylphthalate	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Dimethylphthalate	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Di-n-butylphthalate	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Di-n-octylphthalate	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Fluoranthene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Fluorene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Hexachlorobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Hexachlorobutadiene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Hexachloroethane	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Isophorone	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Naphthalene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Nitrobenzene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Pentachlorophenol	ND (1.89)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Phenanthrene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Phenol	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912
Pyrene	ND (0.377)		8270D		1	05/13/19 21:16	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	62 %		30-130
Surrogate: 2,4,6-Tribromophenol	80 %		30-130
Surrogate: 2-Chlorophenol-d4	72 %		30-130
Surrogate: 2-Fluorobiphenyl	66 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 15.1

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		73 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		66 %		30-130				
<i>Surrogate: Phenol-d6</i>		80 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		101 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-3 6-31in

Date Sampled: 05/08/19 11:15

Percent Solids: 88

Initial Volume: 24.4

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-03

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/13/19 12:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (17.5)		MADEP-EPH		1	CAD	05/14/19 21:56	C9E0230	CE91304
C19-C36 Aliphatics1	35.6 (17.5)		MADEP-EPH		1	CAD	05/14/19 21:56	C9E0230	CE91304
C11-C22 Unadjusted Aromatics1	ND (17.5)		EPH8270		1	VSC	05/14/19 3:50	C9E0190	CE91304
C11-C22 Aromatics1,2	ND (17.5)		EPH8270			VSC	05/14/19 3:50		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	76 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	88 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	83 %		40-140
<i>Surrogate: O-Terphenyl</i>	74 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.27)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Arsenic	3.60 (2.64)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Barium	27.4 (2.64)	6010C	6010C	1	KJK	05/15/19 1:19	2.23	100	CE91031	
Beryllium	0.33 (0.12)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Cadmium	ND (0.53)	6010C	6010C	1	KJK	05/15/19 1:19	2.23	100	CE91031	
Chromium	16.0 (1.05)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Lead	13.2 (5.27)	6010C	6010C	1	KJK	05/15/19 1:19	2.23	100	CE91031	
Mercury	ND (0.025)	7471B	7471B	1	MKS	05/14/19 10:08	0.93	40	CE91030	
Nickel	9.75 (2.64)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Selenium	ND (5.27)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Silver	ND (0.53)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Thallium	ND (5.27)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Vanadium	17.1 (1.05)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	
Zinc	40.5 (2.64)	6010C	6010C	1	NAR	05/14/19 0:11	2.23	100	CE91031	



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,1,1-Trichloroethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,1,2,2-Tetrachloroethane	ND (0.0014)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,1,2-Trichloroethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,1-Dichloroethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,1-Dichloroethene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,1-Dichloropropene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2,3-Trichlorobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2,3-Trichloropropane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2,4-Trichlorobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2,4-Trimethylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2-Dibromo-3-Chloropropane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2-Dibromoethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2-Dichlorobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2-Dichloroethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,2-Dichloropropane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,3,5-Trimethylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,3-Dichlorobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,3-Dichloropropane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,4-Dichlorobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
1,4-Dioxane	ND (0.0700)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
2,2-Dichloropropane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
2-Butanone	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
2-Chlorotoluene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
2-Hexanone	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
4-Chlorotoluene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
4-Isopropyltoluene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
4-Methyl-2-Pentanone	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Acetone	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Benzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Bromobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Bromochloromethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Bromoform	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Bromomethane	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Carbon Disulfide	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Carbon Tetrachloride	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Chlorobenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Chloroethane	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Chloroform	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Chloromethane	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
cis-1,2-Dichloroethene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
cis-1,3-Dichloropropene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Dibromochloromethane	ND (0.0014)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Dibromomethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Dichlorodifluoromethane	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Diethyl Ether	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Di-isopropyl ether	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Ethyl tertiary-butyl ether	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Ethylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Hexachlorobutadiene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Isopropylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Methyl tert-Butyl Ether	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Methylene Chloride	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Naphthalene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
n-Butylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
n-Propylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
sec-Butylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Styrene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
tert-Butylbenzene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Tertiary-amyl methyl ether	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Tetrachloroethene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Tetrahydrofuran	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Toluene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
trans-1,3-Dichloropropene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Trichloroethene	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Trichlorofluoromethane	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Vinyl Chloride	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Xylene O	ND (0.0035)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Xylene P,M	ND (0.0070)		8260B Low		1	05/15/19 12:48	C9E0250	CE91531
Xylenes (Total)	ND (0.0070)		8260B Low		1	05/15/19 12:48		[CALC]
	%Recovery		Qualifier	Limits				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	123 %			70-130				
<i>Surrogate: 4-Bromofluorobenzene</i>	95 %			70-130				
<i>Surrogate: Dibromofluoromethane</i>	109 %			70-130				
<i>Surrogate: Toluene-d8</i>	95 %			70-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 19.8

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: CAD

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1221	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1232	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1242	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1248	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1254	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1260	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1262	ND (0.06)		8082A		1	05/15/19 15:41		CE91306
Aroclor 1268	ND (0.06)		8082A		1	05/15/19 15:41		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	87 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	94 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	87 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 15.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,4-Dinitrophenol	ND (1.89)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2-Chloronaphthalene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2-Chlorophenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2-Methylnaphthalene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2-Methylphenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
2-Nitrophenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.754)		8270D		1	05/13/19 21:44	C9E0203	CE90912
3+4-Methylphenol	ND (0.754)		8270D		1	05/13/19 21:44	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
4-Chloroaniline	ND (0.754)		8270D		1	05/13/19 21:44	C9E0203	CE90912
4-Nitrophenol	ND (1.89)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Acenaphthene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Acenaphthylene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Acetophenone	ND (0.754)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Aniline	ND (1.89)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Anthracene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Azobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Benzo(a)anthracene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Benzo(a)pyrene	0.323 (0.189)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Benzo(b)fluoranthene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Benzo(g,h,i)perylene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Benzo(k)fluoranthene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 15.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Butylbenzylphthalate	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Chrysene	0.372 (0.189)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Dibenzo(a,h)Anthracene	ND (0.189)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Dibenzofuran	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Diethylphthalate	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Dimethylphthalate	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Di-n-butylphthalate	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Di-n-octylphthalate	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Fluoranthene	0.718 (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Fluorene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Hexachlorobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Hexachlorobutadiene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Hexachloroethane	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Isophorone	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Naphthalene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Nitrobenzene	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Pentachlorophenol	ND (1.89)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Phenanthrene	0.391 (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Phenol	ND (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912
Pyrene	0.714 (0.377)		8270D		1	05/13/19 21:44	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	64 %		30-130
Surrogate: 2,4,6-Tribromophenol	80 %		30-130
Surrogate: 2-Chlorophenol-d4	74 %		30-130
Surrogate: 2-Fluorobiphenyl	68 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 15.6

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		75 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		66 %		30-130				
<i>Surrogate: Phenol-d6</i>		81 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		100 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-16 0-5ft

Date Sampled: 05/08/19 12:30

Percent Solids: 85

Initial Volume: 25.4

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-04

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/13/19 12:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (17.4)		MADEP-EPH		1	CAD	05/14/19 22:43	C9E0230	CE91304
C19-C36 Aliphatics1	ND (17.4)		MADEP-EPH		1	CAD	05/14/19 22:43	C9E0230	CE91304
C11-C22 Unadjusted Aromatics1	26.9 (17.4)		EPH8270		1	VSC	05/14/19 6:24	C9E0188	CE91304
C11-C22 Aromatics1,2	25.0 (17.4)		EPH8270			VSC	05/14/19 6:24		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	81 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	96 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	92 %		40-140
<i>Surrogate: O-Terphenyl</i>	84 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.89)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Arsenic	2.83 (2.45)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Barium	7.29 (2.45)		6010C		1	KJK	05/15/19 1:23	2.26	100	CE91031
Beryllium	0.24 (0.11)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Cadmium	ND (0.49)		6010C		1	KJK	05/15/19 1:23	2.26	100	CE91031
Chromium	7.22 (0.98)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Lead	16.5 (4.89)		6010C		1	KJK	05/15/19 1:23	2.26	100	CE91031
Mercury	ND (0.028)		7471B		1	MKS	05/14/19 10:10	0.78	40	CE91030
Nickel	4.83 (2.45)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Selenium	ND (4.89)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Silver	ND (0.49)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Thallium	ND (4.89)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Vanadium	11.1 (0.98)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031
Zinc	19.3 (2.45)		6010C		1	NAR	05/14/19 0:15	2.26	100	CE91031



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 9.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,1,1-Trichloroethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,1,2,2-Tetrachloroethane	ND (0.0012)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,1,2-Trichloroethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,1-Dichloroethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,1-Dichloroethene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,1-Dichloropropene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2,3-Trichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2,3-Trichloropropane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2,4-Trichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2,4-Trimethylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2-Dibromo-3-Chloropropane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2-Dibromoethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2-Dichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2-Dichloroethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,2-Dichloropropane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,3,5-Trimethylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,3-Dichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,3-Dichloropropane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,4-Dichlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
1,4-Dioxane	ND (0.0588)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
2,2-Dichloropropane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
2-Butanone	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
2-Chlorotoluene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
2-Hexanone	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
4-Chlorotoluene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
4-Isopropyltoluene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
4-Methyl-2-Pentanone	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Acetone	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Benzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Bromobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Bromochloromethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 9.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Bromoform	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Bromomethane	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Carbon Disulfide	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Carbon Tetrachloride	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Chlorobenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Chloroethane	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Chloroform	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Chloromethane	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
cis-1,2-Dichloroethene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
cis-1,3-Dichloropropene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Dibromochloromethane	ND (0.0012)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Dibromomethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Dichlorodifluoromethane	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Diethyl Ether	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Di-isopropyl ether	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Ethyl tertiary-butyl ether	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Ethylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Hexachlorobutadiene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Isopropylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Methyl tert-Butyl Ether	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Methylene Chloride	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Naphthalene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
n-Butylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
n-Propylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
sec-Butylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Styrene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
tert-Butylbenzene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Tertiary-amyl methyl ether	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Tetrachloroethene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Tetrahydrofuran	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Toluene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 9.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
trans-1,3-Dichloropropene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Trichloroethene	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Trichlorofluoromethane	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Vinyl Chloride	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Xylene O	ND (0.0029)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Xylene P,M	ND (0.0059)		8260B Low		1	05/15/19 13:13	C9E0250	CE91531
Xylenes (Total)	ND (0.0059)		8260B Low		1	05/15/19 13:13		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	124 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	98 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	110 %		70-130
<i>Surrogate: Toluene-d8</i>	96 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 20

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: CAD

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1221	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1232	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1242	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1248	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1254	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1260	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1262	ND (0.06)		8082A		1	05/15/19 16:00		CE91306
Aroclor 1268	ND (0.06)		8082A		1	05/15/19 16:00		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	97 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	99 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	87 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	92 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 15.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,4-Dinitrophenol	ND (1.75)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2-Chloronaphthalene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2-Chlorophenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2-Methylnaphthalene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2-Methylphenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
2-Nitrophenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.700)		8270D		1	05/13/19 22:12	C9E0203	CE90912
3+4-Methylphenol	ND (0.700)		8270D		1	05/13/19 22:12	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
4-Chloroaniline	ND (0.700)		8270D		1	05/13/19 22:12	C9E0203	CE90912
4-Nitrophenol	ND (1.75)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Acenaphthene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Acenaphthylene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Acetophenone	ND (0.700)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Aniline	ND (1.75)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Anthracene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Azobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Benzo(a)anthracene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Benzo(a)pyrene	ND (0.175)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Benzo(b)fluoranthene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Benzo(g,h,i)perylene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Benzo(k)fluoranthene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 15.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Butylbenzylphthalate	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Chrysene	ND (0.175)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Dibenz(a,h)Anthracene	ND (0.175)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Dibenzofuran	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Diethylphthalate	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Dimethylphthalate	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Di-n-butylphthalate	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Di-n-octylphthalate	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Fluoranthene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Fluorene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Hexachlorobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Hexachlorobutadiene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Hexachloroethane	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Isophorone	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Naphthalene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Nitrobenzene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Pentachlorophenol	ND (1.75)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Phenanthrene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Phenol	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912
Pyrene	ND (0.350)		8270D		1	05/13/19 22:12	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	71 %		30-130
Surrogate: 2,4,6-Tribromophenol	81 %		30-130
Surrogate: 2-Chlorophenol-d4	80 %		30-130
Surrogate: 2-Fluorobiphenyl	74 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 15.8

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		82 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		74 %		30-130				
<i>Surrogate: Phenol-d6</i>		84 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		109 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-9 0-5ft

Date Sampled: 05/08/19 14:55

Percent Solids: 90

Initial Volume: 24.5

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-05

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/13/19 12:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.9)		MADEP-EPH		1	CAD	05/14/19 23:30	C9E0230	CE91304
C19-C36 Aliphatics1	ND (16.9)		MADEP-EPH		1	CAD	05/14/19 23:30	C9E0230	CE91304
C11-C22 Unadjusted Aromatics1	ND (16.9)		EPH8270		1	VSC	05/14/19 7:01	C9E0188	CE91304
C11-C22 Aromatics1,2	ND (16.9)		EPH8270			VSC	05/14/19 7:01		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	70 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	96 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	93 %		40-140
<i>Surrogate: O-Terphenyl</i>	78 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (5.03)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Arsenic	2.53 (2.52)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Barium	13.2 (2.52)		6010C		1	KJK	05/15/19 1:42	2.09	100	CE91031
Beryllium	0.27 (0.11)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Cadmium	ND (0.50)		6010C		1	KJK	05/15/19 1:42	2.09	100	CE91031
Chromium	7.43 (1.01)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Lead	11.5 (5.03)		6010C		1	KJK	05/15/19 1:42	2.09	100	CE91031
Mercury	ND (0.025)		7471B		1	MKS	05/14/19 10:24	0.85	40	CE91030
Nickel	9.74 (2.52)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Selenium	ND (5.03)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Silver	ND (0.50)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Thallium	ND (5.03)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Vanadium	9.15 (1.01)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031
Zinc	29.4 (2.52)		6010C		1	NAR	05/14/19 0:34	2.09	100	CE91031



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,1,1-Trichloroethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,1,2,2-Tetrachloroethane	ND (0.0013)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,1,2-Trichloroethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,1-Dichloroethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,1-Dichloroethene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,1-Dichloropropene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2,3-Trichlorobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2,3-Trichloropropane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2,4-Trichlorobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2,4-Trimethylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2-Dibromo-3-Chloropropane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2-Dibromoethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2-Dichlorobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2-Dichloroethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,2-Dichloropropane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,3,5-Trimethylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,3-Dichlorobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,3-Dichloropropane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,4-Dichlorobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
1,4-Dioxane	ND (0.0626)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
2,2-Dichloropropane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
2-Butanone	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
2-Chlorotoluene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
2-Hexanone	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
4-Chlorotoluene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
4-Isopropyltoluene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
4-Methyl-2-Pentanone	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Acetone	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Benzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Bromobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Bromochloromethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromodichloromethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Bromoform	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Bromomethane	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Carbon Disulfide	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Carbon Tetrachloride	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Chlorobenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Chloroethane	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Chloroform	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Chloromethane	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
cis-1,2-Dichloroethene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
cis-1,3-Dichloropropene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Dibromochloromethane	ND (0.0013)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Dibromomethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Dichlorodifluoromethane	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Diethyl Ether	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Di-isopropyl ether	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Ethyl tertiary-butyl ether	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Ethylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Hexachlorobutadiene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Isopropylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Methyl tert-Butyl Ether	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Methylene Chloride	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Naphthalene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
n-Butylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
n-Propylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
sec-Butylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Styrene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
tert-Butylbenzene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Tertiary-amyl methyl ether	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Tetrachloroethene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Tetrahydrofuran	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Toluene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 8.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
trans-1,2-Dichloroethene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
trans-1,3-Dichloropropene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Trichloroethene	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Trichlorofluoromethane	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Vinyl Chloride	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Xylene O	ND (0.0031)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Xylene P,M	ND (0.0063)		8260B Low		1	05/15/19 13:39	C9E0250	CE91531
Xylenes (Total)	ND (0.0063)		8260B Low		1	05/15/19 13:39		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	120 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	96 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	110 %		70-130
<i>Surrogate: Toluene-d8</i>	97 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 20

Final Volume: 10

Extraction Method: 3540C

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: CAD

Prepared: 5/13/19 16:28

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1221	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1232	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1242	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1248	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1254	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1260	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1262	ND (0.05)		8082A		1	05/15/19 16:19		CE91306
Aroclor 1268	ND (0.05)		8082A		1	05/15/19 16:19		CE91306

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	91 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	96 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	87 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	94 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 15.3

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,2,4-Trichlorobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
1,2-Dichlorobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
1,3-Dichlorobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
1,4-Dichlorobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,4,5-Trichlorophenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,4,6-Trichlorophenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,4-Dichlorophenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,4-Dimethylphenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,4-Dinitrophenol	ND (1.72)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,4-Dinitrotoluene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2,6-Dinitrotoluene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2-Chloronaphthalene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2-Chlorophenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2-Methylnaphthalene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2-Methylphenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
2-Nitrophenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
3,3'-Dichlorobenzidine	ND (0.688)		8270D		1	05/13/19 22:41	C9E0203	CE90912
3+4-Methylphenol	ND (0.688)		8270D		1	05/13/19 22:41	C9E0203	CE90912
4-Bromophenyl-phenylether	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
4-Chloroaniline	ND (0.688)		8270D		1	05/13/19 22:41	C9E0203	CE90912
4-Nitrophenol	ND (1.72)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Acenaphthene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Acenaphthylene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Acetophenone	ND (0.688)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Aniline	ND (1.72)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Anthracene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Azobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Benzo(a)anthracene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Benzo(a)pyrene	ND (0.172)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Benzo(b)fluoranthene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Benzo(g,h,i)perylene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Benzo(k)fluoranthene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 15.3

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
bis(2-Chloroethoxy)methane	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
bis(2-Chloroethyl)ether	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
bis(2-chloroisopropyl)Ether	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
bis(2-Ethylhexyl)phthalate	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Butylbenzylphthalate	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Chrysene	ND (0.172)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Dibenzo(a,h)Anthracene	ND (0.172)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Dibenzofuran	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Diethylphthalate	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Dimethylphthalate	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Di-n-butylphthalate	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Di-n-octylphthalate	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Fluoranthene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Fluorene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Hexachlorobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Hexachlorobutadiene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Hexachloroethane	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Indeno(1,2,3-cd)Pyrene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Isophorone	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Naphthalene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Nitrobenzene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
N-Nitrosodimethylamine	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Pentachlorophenol	ND (1.72)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Phenanthrene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Phenol	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912
Pyrene	ND (0.343)		8270D		1	05/13/19 22:41	C9E0203	CE90912

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	73 %		30-130
Surrogate: 2,4,6-Tribromophenol	79 %		30-130
Surrogate: 2-Chlorophenol-d4	83 %		30-130
Surrogate: 2-Fluorobiphenyl	75 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 15.3

Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Analyst: TJ

Prepared: 5/10/19 9:55

8270D Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
<i>Surrogate: 2-Fluorophenol</i>		84 %		30-130				
<i>Surrogate: Nitrobenzene-d5</i>		77 %		30-130				
<i>Surrogate: Phenol-d6</i>		88 %		30-130				
<i>Surrogate: p-Terphenyl-d14</i>		98 %		30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

Client Sample ID: B-8 0-5ft

Date Sampled: 05/08/19 08:40

Percent Solids: 95

Initial Volume: 24.2

Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1905331

ESS Laboratory Sample ID: 1905331-06

Sample Matrix: Soil

Units: mg/kg dry

Prepared: 5/13/19 12:15

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (16.3)		MADEP-EPH		1	CAD	05/15/19 0:18	C9E0230	CE91304
C19-C36 Aliphatics1	ND (16.3)		MADEP-EPH		1	CAD	05/15/19 0:18	C9E0230	CE91304
C11-C22 Unadjusted Aromatics1	ND (16.3)		EPH8270		1	VSC	05/14/19 7:37	C9E0188	CE91304
C11-C22 Aromatics1,2	ND (16.3)		EPH8270			VSC	05/14/19 7:37		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	72 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	88 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	89 %		40-140
<i>Surrogate: O-Terphenyl</i>	76 %		40-140



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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Total Metals

Batch CE91030 - 7471B

Blank

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	3.69	0.381	mg/kg wet	4.850	76	50-103				
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LCS Dup

Mercury	3.68	0.374	mg/kg wet	4.850	76	50-103	0.4	20		
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Reference

Mercury	0.943	0.180	mg/kg wet	1000	0.09	0-200				
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Batch CE91031 - 3050B

Blank

Antimony	ND	0.50	mg/kg wet							
Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Beryllium	ND	0.11	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Nickel	ND	2.50	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	5.00	mg/kg wet							
Vanadium	ND	1.00	mg/kg wet							
Zinc	ND	2.50	mg/kg wet							

LCS

Antimony	47.9	9.09	mg/kg wet	42.40	113	80-120				
Antimony	47.4	18.2	mg/kg wet	42.40	112	80-120				
Arsenic	123	9.09	mg/kg wet	128.0	96	85-114				
Barium	488	9.09	mg/kg wet	536.0	91	82-118				
Beryllium	200	0.40	mg/kg wet	217.0	92	84-116				
Cadmium	87.2	1.82	mg/kg wet	99.00	88	87-113				
Chromium	112	3.64	mg/kg wet	116.0	97	82-118				
Lead	273	18.2	mg/kg wet	277.0	99	84-116				
Nickel	105	9.09	mg/kg wet	107.0	98	84-117				
Selenium	234	18.2	mg/kg wet	242.0	97	80-120				
Silver	61.0	1.82	mg/kg wet	64.30	95	86-114				
Thallium	185	18.2	mg/kg wet	183.0	101	80-120				
Vanadium	144	3.64	mg/kg wet	146.0	98	86-114				
Zinc	531	9.09	mg/kg wet	561.0	95	86-114				

LCS Dup

Antimony	46.5	17.2	mg/kg wet	42.40	110	80-120	2	20		
Antimony	49.4	8.62	mg/kg wet	42.40	117	80-120	3	30		
Arsenic	124	8.62	mg/kg wet	128.0	97	85-114	0.9	20		
Barium	546	8.62	mg/kg wet	536.0	102	82-118	11	20		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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Total Metals

Batch CE91031 - 3050B

Beryllium	203	0.38	mg/kg wet	217.0	94	84-116	2	20
Cadmium	87.8	1.72	mg/kg wet	99.00	89	87-113	0.6	20
Chromium	111	3.45	mg/kg wet	116.0	95	82-118	1	20
Lead	274	17.2	mg/kg wet	277.0	99	84-116	0.2	20
Nickel	104	8.62	mg/kg wet	107.0	97	84-117	0.4	20
Selenium	234	17.2	mg/kg wet	242.0	97	80-120	0.08	20
Silver	61.3	1.72	mg/kg wet	64.30	95	86-114	0.5	20
Thallium	181	17.2	mg/kg wet	183.0	99	80-120	2	20
Vanadium	141	3.45	mg/kg wet	146.0	97	86-114	2	20
Zinc	527	8.62	mg/kg wet	561.0	94	86-114	0.7	20

Reference

Barium	444	9.09	mg/kg wet	500.0	89	70-130
Cadmium	399	1.82	mg/kg wet	500.0	80	70-130
Chromium	490	3.64	mg/kg wet	500.0	98	70-130
Lead	523	18.2	mg/kg wet	500.0	105	70-130
Nickel	487	9.09	mg/kg wet	500.0	97	70-130
Silver	153	1.82	mg/kg wet	500.0	31	70-130
Vanadium	491	3.64	mg/kg wet	500.0	98	70-130
Zinc	467	9.09	mg/kg wet	500.0	93	70-130

5035/8260B Volatile Organic Compounds / Low Level

Batch CE91531 - 5035

Blank			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91531 - 5035

2-Butanone	ND	0.0100	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0100	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0100	mg/kg wet
Acetone	ND	0.0100	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0020	mg/kg wet
Dibromomethane	ND	0.0050	mg/kg wet
Dichlorodifluoromethane	ND	0.0100	mg/kg wet
Diethyl Ether	ND	0.0050	mg/kg wet
Di-isopropyl ether	ND	0.0050	mg/kg wet
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet
Ethylbenzene	ND	0.0050	mg/kg wet
Hexachlorobutadiene	ND	0.0050	mg/kg wet
Isopropylbenzene	ND	0.0050	mg/kg wet
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet
Methylene Chloride	ND	0.0100	mg/kg wet
Naphthalene	ND	0.0050	mg/kg wet
n-Butylbenzene	ND	0.0050	mg/kg wet
n-Propylbenzene	ND	0.0050	mg/kg wet
sec-Butylbenzene	ND	0.0050	mg/kg wet
Styrene	ND	0.0050	mg/kg wet
tert-Butylbenzene	ND	0.0050	mg/kg wet
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet
Tetrachloroethene	ND	0.0050	mg/kg wet
Tetrahydrofuran	ND	0.0050	mg/kg wet
Toluene	ND	0.0050	mg/kg wet
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Trichloroethene	ND	0.0050	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91531 - 5035

Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0549</i>		mg/kg wet	<i>0.05000</i>		<i>110</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0475</i>		mg/kg wet	<i>0.05000</i>		<i>95</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0517</i>		mg/kg wet	<i>0.05000</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0485</i>		mg/kg wet	<i>0.05000</i>		<i>97</i>	<i>70-130</i>			
LCS										
1,1,1,2-Tetrachloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
1,1,1-Trichloroethane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
1,1,2,2-Tetrachloroethane	0.0423	0.0020	mg/kg wet	0.05000		85	70-130			
1,1,2-Trichloroethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,1-Dichloroethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,1-Dichloroethene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,1-Dichloropropene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
1,2,3-Trichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,2,3-Trichloropropane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,4-Trichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,2,4-Trimethylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dibromo-3-Chloropropane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,2-Dibromoethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,2-Dichlorobenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
1,2-Dichloroethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,2-Dichloropropane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,3,5-Trimethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
1,3-Dichlorobenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,3-Dichloropropane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dichlorobenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,4-Dioxane	0.938	0.100	mg/kg wet	1.000		94	70-130			
2,2-Dichloropropane	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
2-Butanone	0.249	0.0100	mg/kg wet	0.2500		100	70-130			
2-Chlorotoluene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
2-Hexanone	0.227	0.0100	mg/kg wet	0.2500		91	70-130			
4-Chlorotoluene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
4-Methyl-2-Pentanone	0.255	0.0100	mg/kg wet	0.2500		102	70-130			
Acetone	0.259	0.0100	mg/kg wet	0.2500		103	70-130			
Benzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Bromobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Bromochloromethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Bromodichloromethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
Bromoform	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Bromomethane	0.0536	0.0100	mg/kg wet	0.05000		107	70-130			
Carbon Disulfide	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91531 - 5035

Carbon Tetrachloride	0.0545	0.0050	mg/kg wet	0.05000	109	70-130
Chlorobenzene	0.0444	0.0050	mg/kg wet	0.05000	89	70-130
Chloroethane	0.0491	0.0100	mg/kg wet	0.05000	98	70-130
Chloroform	0.0506	0.0050	mg/kg wet	0.05000	101	70-130
Chloromethane	0.0542	0.0100	mg/kg wet	0.05000	108	70-130
cis-1,2-Dichloroethene	0.0510	0.0050	mg/kg wet	0.05000	102	70-130
cis-1,3-Dichloropropene	0.0534	0.0050	mg/kg wet	0.05000	107	70-130
Dibromochloromethane	0.0466	0.0020	mg/kg wet	0.05000	93	70-130
Dibromomethane	0.0511	0.0050	mg/kg wet	0.05000	102	70-130
Dichlorodifluoromethane	0.0566	0.0100	mg/kg wet	0.05000	113	70-130
Diethyl Ether	0.0515	0.0050	mg/kg wet	0.05000	103	70-130
Di-isopropyl ether	0.0500	0.0050	mg/kg wet	0.05000	100	70-130
Ethyl tertiary-butyl ether	0.0483	0.0050	mg/kg wet	0.05000	97	70-130
Ethylbenzene	0.0484	0.0050	mg/kg wet	0.05000	97	70-130
Hexachlorobutadiene	0.0497	0.0050	mg/kg wet	0.05000	99	70-130
Isopropylbenzene	0.0487	0.0050	mg/kg wet	0.05000	97	70-130
Methyl tert-Butyl Ether	0.0526	0.0050	mg/kg wet	0.05000	105	70-130
Methylene Chloride	0.0472	0.0100	mg/kg wet	0.05000	94	70-130
Naphthalene	0.0505	0.0050	mg/kg wet	0.05000	101	70-130
n-Butylbenzene	0.0524	0.0050	mg/kg wet	0.05000	105	70-130
n-Propylbenzene	0.0490	0.0050	mg/kg wet	0.05000	98	70-130
sec-Butylbenzene	0.0477	0.0050	mg/kg wet	0.05000	95	70-130
Styrene	0.0476	0.0050	mg/kg wet	0.05000	95	70-130
tert-Butylbenzene	0.0483	0.0050	mg/kg wet	0.05000	97	70-130
Tertiary-amyl methyl ether	0.0509	0.0050	mg/kg wet	0.05000	102	70-130
Tetrachloroethene	0.0457	0.0050	mg/kg wet	0.05000	91	70-130
Tetrahydrofuran	0.0492	0.0050	mg/kg wet	0.05000	98	70-130
Toluene	0.0496	0.0050	mg/kg wet	0.05000	99	70-130
trans-1,2-Dichloroethene	0.0496	0.0050	mg/kg wet	0.05000	99	70-130
trans-1,3-Dichloropropene	0.0537	0.0050	mg/kg wet	0.05000	107	70-130
Trichloroethene	0.0510	0.0050	mg/kg wet	0.05000	102	70-130
Trichlorofluoromethane	0.0556	0.0050	mg/kg wet	0.05000	111	70-130
Vinyl Chloride	0.0530	0.0100	mg/kg wet	0.05000	106	70-130
Xylene O	0.0463	0.0050	mg/kg wet	0.05000	93	70-130
Xylene P,M	0.0943	0.0100	mg/kg wet	0.10000	94	70-130
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0522		mg/kg wet	0.05000	104	70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0502		mg/kg wet	0.05000	100	70-130
<i>Surrogate: Dibromofluoromethane</i>	0.0513		mg/kg wet	0.05000	103	70-130
<i>Surrogate: Toluene-d8</i>	0.0472		mg/kg wet	0.05000	94	70-130

LCS Dup

1,1,1,2-Tetrachloroethane	0.0535	0.0050	mg/kg wet	0.05000	107	70-130	12	20
1,1,1-Trichloroethane	0.0588	0.0050	mg/kg wet	0.05000	118	70-130	9	20
1,1,2,2-Tetrachloroethane	0.0459	0.0020	mg/kg wet	0.05000	92	70-130	8	20
1,1,2-Trichloroethane	0.0531	0.0050	mg/kg wet	0.05000	106	70-130	6	20
1,1-Dichloroethane	0.0544	0.0050	mg/kg wet	0.05000	109	70-130	9	20



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91531 - 5035

1,1-Dichloroethene	0.0593	0.0050	mg/kg wet	0.05000	119	70-130	10	20		
1,1-Dichloropropene	0.0599	0.0050	mg/kg wet	0.05000	120	70-130	9	20		
1,2,3-Trichlorobenzene	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	10	20		
1,2,3-Trichloropropane	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	11	20		
1,2,4-Trichlorobenzene	0.0567	0.0050	mg/kg wet	0.05000	113	70-130	9	20		
1,2,4-Trimethylbenzene	0.0554	0.0050	mg/kg wet	0.05000	111	70-130	10	20		
1,2-Dibromo-3-Chloropropane	0.0530	0.0050	mg/kg wet	0.05000	106	70-130	9	20		
1,2-Dibromoethane	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	14	20		
1,2-Dichlorobenzene	0.0497	0.0050	mg/kg wet	0.05000	99	70-130	9	20		
1,2-Dichloroethane	0.0567	0.0050	mg/kg wet	0.05000	113	70-130	6	20		
1,2-Dichloropropane	0.0541	0.0050	mg/kg wet	0.05000	108	70-130	8	20		
1,3,5-Trimethylbenzene	0.0543	0.0050	mg/kg wet	0.05000	109	70-130	11	20		
1,3-Dichlorobenzene	0.0503	0.0050	mg/kg wet	0.05000	101	70-130	10	20		
1,3-Dichloropropane	0.0541	0.0050	mg/kg wet	0.05000	108	70-130	12	20		
1,4-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000	100	70-130	8	20		
1,4-Dioxane	0.994	0.100	mg/kg wet	1.000	99	70-130	6	20		
2,2-Dichloropropane	0.0618	0.0050	mg/kg wet	0.05000	124	70-130	9	20		
2-Butanone	0.267	0.0100	mg/kg wet	0.2500	107	70-130	7	20		
2-Chlorotoluene	0.0522	0.0050	mg/kg wet	0.05000	104	70-130	11	20		
2-Hexanone	0.259	0.0100	mg/kg wet	0.2500	103	70-130	13	20		
4-Chlorotoluene	0.0525	0.0050	mg/kg wet	0.05000	105	70-130	9	20		
4-Isopropyltoluene	0.0541	0.0050	mg/kg wet	0.05000	108	70-130	10	20		
4-Methyl-2-Pentanone	0.275	0.0100	mg/kg wet	0.2500	110	70-130	8	20		
Acetone	0.282	0.0100	mg/kg wet	0.2500	113	70-130	9	20		
Benzene	0.0540	0.0050	mg/kg wet	0.05000	108	70-130	9	20		
Bromobenzene	0.0510	0.0050	mg/kg wet	0.05000	102	70-130	8	20		
Bromochloromethane	0.0531	0.0050	mg/kg wet	0.05000	106	70-130	8	20		
Bromodichloromethane	0.0571	0.0050	mg/kg wet	0.05000	114	70-130	7	20		
Bromoform	0.0536	0.0050	mg/kg wet	0.05000	107	70-130	12	20		
Bromomethane	0.0570	0.0100	mg/kg wet	0.05000	114	70-130	6	20		
Carbon Disulfide	0.0587	0.0050	mg/kg wet	0.05000	117	70-130	10	20		
Carbon Tetrachloride	0.0594	0.0050	mg/kg wet	0.05000	119	70-130	9	20		
Chlorobenzene	0.0504	0.0050	mg/kg wet	0.05000	101	70-130	13	20		
Chloroethane	0.0534	0.0100	mg/kg wet	0.05000	107	70-130	8	20		
Chloroform	0.0542	0.0050	mg/kg wet	0.05000	108	70-130	7	20		
Chloromethane	0.0588	0.0100	mg/kg wet	0.05000	118	70-130	8	20		
cis-1,2-Dichloroethene	0.0561	0.0050	mg/kg wet	0.05000	112	70-130	9	20		
cis-1,3-Dichloropropene	0.0586	0.0050	mg/kg wet	0.05000	117	70-130	9	20		
Dibromochloromethane	0.0524	0.0020	mg/kg wet	0.05000	105	70-130	12	20		
Dibromomethane	0.0552	0.0050	mg/kg wet	0.05000	110	70-130	8	20		
Dichlorodifluoromethane	0.0606	0.0100	mg/kg wet	0.05000	121	70-130	7	20		
Diethyl Ether	0.0558	0.0050	mg/kg wet	0.05000	112	70-130	8	20		
Di-isopropyl ether	0.0542	0.0050	mg/kg wet	0.05000	108	70-130	8	20		
Ethyl tertiary-butyl ether	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	7	20		
Ethylbenzene	0.0551	0.0050	mg/kg wet	0.05000	110	70-130	13	20		



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch CE91531 - 5035

Hexachlorobutadiene	0.0548	0.0050	mg/kg wet	0.05000	110	70-130	10	20		
Isopropylbenzene	0.0542	0.0050	mg/kg wet	0.05000	108	70-130	11	20		
Methyl tert-Butyl Ether	0.0568	0.0050	mg/kg wet	0.05000	114	70-130	8	20		
Methylene Chloride	0.0515	0.0100	mg/kg wet	0.05000	103	70-130	9	20		
Naphthalene	0.0560	0.0050	mg/kg wet	0.05000	112	70-130	10	20		
n-Butylbenzene	0.0584	0.0050	mg/kg wet	0.05000	117	70-130	11	20		
n-Propylbenzene	0.0543	0.0050	mg/kg wet	0.05000	109	70-130	10	20		
sec-Butylbenzene	0.0532	0.0050	mg/kg wet	0.05000	106	70-130	11	20		
Styrene	0.0539	0.0050	mg/kg wet	0.05000	108	70-130	12	20		
tert-Butylbenzene	0.0538	0.0050	mg/kg wet	0.05000	108	70-130	11	20		
Tertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000	110	70-130	8	20		
Tetrachloroethene	0.0518	0.0050	mg/kg wet	0.05000	104	70-130	13	20		
Tetrahydrofuran	0.0565	0.0050	mg/kg wet	0.05000	113	70-130	14	20		
Toluene	0.0537	0.0050	mg/kg wet	0.05000	107	70-130	8	20		
trans-1,2-Dichloroethene	0.0549	0.0050	mg/kg wet	0.05000	110	70-130	10	20		
trans-1,3-Dichloropropene	0.0579	0.0050	mg/kg wet	0.05000	116	70-130	8	20		
Trichloroethene	0.0553	0.0050	mg/kg wet	0.05000	111	70-130	8	20		
Trichlorofluoromethane	0.0603	0.0050	mg/kg wet	0.05000	121	70-130	8	20		
Vinyl Chloride	0.0575	0.0100	mg/kg wet	0.05000	115	70-130	8	20		
Xylene O	0.0519	0.0050	mg/kg wet	0.05000	104	70-130	12	20		
Xylene P,M	0.107	0.0100	mg/kg wet	0.1000	107	70-130	13	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0507</i>		mg/kg wet	<i>0.05000</i>	<i>101</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0510</i>		mg/kg wet	<i>0.05000</i>	<i>102</i>	<i>70-130</i>				
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0504</i>		mg/kg wet	<i>0.05000</i>	<i>101</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0493</i>		mg/kg wet	<i>0.05000</i>	<i>99</i>	<i>70-130</i>				

8082A Polychlorinated Biphenyls (PCB)

Batch CE91306 - 3540C

Blank				
Aroclor 1016	ND	0.02	mg/kg wet	
Aroclor 1016 [2C]	ND	0.02	mg/kg wet	
Aroclor 1221	ND	0.02	mg/kg wet	
Aroclor 1221 [2C]	ND	0.02	mg/kg wet	
Aroclor 1232	ND	0.02	mg/kg wet	
Aroclor 1232 [2C]	ND	0.02	mg/kg wet	
Aroclor 1242	ND	0.02	mg/kg wet	
Aroclor 1242 [2C]	ND	0.02	mg/kg wet	
Aroclor 1248	ND	0.02	mg/kg wet	
Aroclor 1248 [2C]	ND	0.02	mg/kg wet	
Aroclor 1254	ND	0.02	mg/kg wet	
Aroclor 1254 [2C]	ND	0.02	mg/kg wet	
Aroclor 1260	ND	0.02	mg/kg wet	
Aroclor 1260 [2C]	ND	0.02	mg/kg wet	
Aroclor 1262	ND	0.02	mg/kg wet	
Aroclor 1262 [2C]	ND	0.02	mg/kg wet	



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8082A Polychlorinated Biphenyls (PCB)

Batch CE91306 - 3540C

Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0234</i>		mg/kg wet	<i>0.02500</i>		<i>93</i>		<i>30-150</i>		
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0223</i>		mg/kg wet	<i>0.02500</i>		<i>89</i>		<i>30-150</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0199</i>		mg/kg wet	<i>0.02500</i>		<i>80</i>		<i>30-150</i>		
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0215</i>		mg/kg wet	<i>0.02500</i>		<i>86</i>		<i>30-150</i>		

LCS

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		104		40-140		
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		101		40-140		
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		96		40-140		
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		97		40-140		
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0242</i>		mg/kg wet	<i>0.02500</i>		<i>97</i>		<i>30-150</i>		
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0228</i>		mg/kg wet	<i>0.02500</i>		<i>91</i>		<i>30-150</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0214</i>		mg/kg wet	<i>0.02500</i>		<i>86</i>		<i>30-150</i>		
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0218</i>		mg/kg wet	<i>0.02500</i>		<i>87</i>		<i>30-150</i>		

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		101	40-140	3	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		98	40-140	2	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		95	40-140	1	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	2	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0241</i>		mg/kg wet	<i>0.02500</i>		<i>96</i>		<i>30-150</i>		
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0226</i>		mg/kg wet	<i>0.02500</i>		<i>90</i>		<i>30-150</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0212</i>		mg/kg wet	<i>0.02500</i>		<i>85</i>		<i>30-150</i>		
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0215</i>		mg/kg wet	<i>0.02500</i>		<i>86</i>		<i>30-150</i>		

8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

Blank										
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.167	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.167	mg/kg wet							
2,4-Dichlorophenol	ND	0.167	mg/kg wet							
2,4-Dimethylphenol	ND	0.167	mg/kg wet							
2,4-Dinitrophenol	ND	0.667	mg/kg wet							
2,4-Dinitrotoluene	ND	0.167	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthalene	ND	0.333	mg/kg wet							
2-Chlorophenol	ND	0.167	mg/kg wet							
2-Methylnaphthalene	ND	0.167	mg/kg wet							



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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitrophenol	ND	0.333	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.333	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.333	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	1.67	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.167	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.167	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
Butylbenzylphthalate	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Dibenzofuran	ND	0.333	mg/kg wet							
Diethylphthalate	ND	0.333	mg/kg wet							
Dimethylphthalate	ND	0.333	mg/kg wet							
Di-n-butylphthalate	ND	0.333	mg/kg wet							
Di-n-octylphthalate	ND	0.333	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Hexachlorobenzene	ND	0.167	mg/kg wet							
Hexachlorobutadiene	ND	0.333	mg/kg wet							
Hexachloroethane	ND	0.167	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Isophorone	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Nitrobenzene	ND	0.333	mg/kg wet							
N-Nitrosodimethylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	0.667	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.12		mg/kg wet	3.333		63		30-130		



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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

Surrogate: 2,4,6-Tribromophenol	3.79		mg/kg wet	5.000	76	30-130				
Surrogate: 2-Chlorophenol-d4	3.30		mg/kg wet	5.000	66	30-130				
Surrogate: 2-Fluorobiphenyl	2.09		mg/kg wet	3.333	63	30-130				
Surrogate: 2-Fluorophenol	3.29		mg/kg wet	5.000	66	30-130				
Surrogate: Nitrobenzene-d5	2.03		mg/kg wet	3.333	61	30-130				
Surrogate: Phenol-d6	3.31		mg/kg wet	5.000	66	30-130				
Surrogate: p-Terphenyl-d14	2.96		mg/kg wet	3.333	89	30-130				
LCS										
1,2,4-Trichlorobenzene	2.28	0.333	mg/kg wet	3.333	68	40-140				
1,2-Dichlorobenzene	2.18	0.333	mg/kg wet	3.333	65	40-140				
1,3-Dichlorobenzene	2.12	0.333	mg/kg wet	3.333	64	40-140				
1,4-Dichlorobenzene	2.06	0.167	mg/kg wet	3.333	62	40-140				
2,4,5-Trichlorophenol	2.63	0.333	mg/kg wet	3.333	79	30-130				
2,4,6-Trichlorophenol	2.57	0.167	mg/kg wet	3.333	77	30-130				
2,4-Dichlorophenol	2.40	0.167	mg/kg wet	3.333	72	30-130				
2,4-Dimethylphenol	2.19	0.167	mg/kg wet	3.333	66	30-130				
2,4-Dinitrophenol	2.33	0.667	mg/kg wet	3.333	70	30-130				
2,4-Dinitrotoluene	3.00	0.167	mg/kg wet	3.333	90	40-140				
2,6-Dinitrotoluene	2.76	0.333	mg/kg wet	3.333	83	40-140				
2-Chloronaphthalene	2.14	0.333	mg/kg wet	3.333	64	40-140				
2-Chlorophenol	2.07	0.167	mg/kg wet	3.333	62	30-130				
2-Methylnaphthalene	2.09	0.167	mg/kg wet	3.333	63	40-140				
2-Methylphenol	2.12	0.333	mg/kg wet	3.333	64	30-130				
2-Nitrophenol	2.12	0.333	mg/kg wet	3.333	64	30-130				
3,3'-Dichlorobenzidine	2.05	0.333	mg/kg wet	3.333	61	40-140				
3+4-Methylphenol	4.40	0.667	mg/kg wet	6.667	66	30-130				
4-Bromophenyl-phenylether	2.82	0.333	mg/kg wet	3.333	85	40-140				
4-Chloroaniline	1.93	0.333	mg/kg wet	3.333	58	40-140				
4-Nitrophenol	2.40	1.67	mg/kg wet	3.333	72	30-130				
Acenaphthene	2.24	0.333	mg/kg wet	3.333	67	40-140				
Acenaphthylene	2.32	0.333	mg/kg wet	3.333	69	40-140				
Acetophenone	1.97	0.667	mg/kg wet	3.333	59	40-140				
Aniline	1.73	1.67	mg/kg wet	3.333	52	40-140				
Anthracene	2.72	0.333	mg/kg wet	3.333	82	40-140				
Azobenzene	2.42	0.333	mg/kg wet	3.333	73	40-140				
Benzo(a)anthracene	2.89	0.333	mg/kg wet	3.333	87	40-140				
Benzo(a)pyrene	2.75	0.167	mg/kg wet	3.333	83	40-140				
Benzo(b)fluoranthene	2.96	0.333	mg/kg wet	3.333	89	40-140				
Benzo(g,h,i)perylene	2.93	0.333	mg/kg wet	3.333	88	40-140				
Benzo(k)fluoranthene	2.56	0.333	mg/kg wet	3.333	77	40-140				
bis(2-Chloroethoxy)methane	2.09	0.333	mg/kg wet	3.333	63	40-140				
bis(2-Chloroethyl)ether	2.01	0.167	mg/kg wet	3.333	60	40-140				
bis(2-chloroisopropyl)Ether	1.99	0.167	mg/kg wet	3.333	60	40-140				
bis(2-Ethylhexyl)phthalate	3.02	0.333	mg/kg wet	3.333	91	40-140				
Butylbenzylphthalate	3.04	0.333	mg/kg wet	3.333	91	40-140				



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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

Chrysene	2.72	0.167	mg/kg wet	3.333	82	40-140
Dibenzo(a,h)Anthracene	3.00	0.167	mg/kg wet	3.333	90	40-140
Dibenzofuran	2.36	0.333	mg/kg wet	3.333	71	40-140
Diethylphthalate	2.87	0.333	mg/kg wet	3.333	86	40-140
Dimethylphthalate	2.77	0.333	mg/kg wet	3.333	83	40-140
Di-n-butylphthalate	3.14	0.333	mg/kg wet	3.333	94	40-140
Di-n-octylphthalate	2.96	0.333	mg/kg wet	3.333	89	40-140
Fluoranthene	2.80	0.333	mg/kg wet	3.333	84	40-140
Fluorene	2.56	0.333	mg/kg wet	3.333	77	40-140
Hexachlorobenzene	2.81	0.167	mg/kg wet	3.333	84	40-140
Hexachlorobutadiene	2.26	0.333	mg/kg wet	3.333	68	40-140
Hexachloroethane	2.01	0.167	mg/kg wet	3.333	60	40-140
Indeno(1,2,3-cd)Pyrene	2.94	0.333	mg/kg wet	3.333	88	40-140
Isophorone	1.89	0.333	mg/kg wet	3.333	57	40-140
Naphthalene	2.14	0.333	mg/kg wet	3.333	64	40-140
Nitrobenzene	2.03	0.333	mg/kg wet	3.333	61	40-140
N-Nitrosodimethylamine	1.92	0.333	mg/kg wet	3.333	57	40-140
Pentachlorophenol	3.06	0.667	mg/kg wet	3.333	92	30-130
Phenanthrene	2.65	0.333	mg/kg wet	3.333	79	40-140
Phenol	2.08	0.333	mg/kg wet	3.333	62	30-130
Pyrene	2.78	0.333	mg/kg wet	3.333	83	40-140
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.15		mg/kg wet	3.333	65	30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.67		mg/kg wet	5.000	93	30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	3.38		mg/kg wet	5.000	68	30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	2.35		mg/kg wet	3.333	71	30-130
<i>Surrogate: 2-Fluorophenol</i>	3.38		mg/kg wet	5.000	68	30-130
<i>Surrogate: Nitrobenzene-d5</i>	2.15		mg/kg wet	3.333	65	30-130
<i>Surrogate: Phenol-d6</i>	3.38		mg/kg wet	5.000	68	30-130
<i>Surrogate: p-Terphenyl-d14</i>	2.99		mg/kg wet	3.333	90	30-130

LCS Dup

1,2,4-Trichlorobenzene	2.62	0.333	mg/kg wet	3.333	79	40-140	14	30
1,2-Dichlorobenzene	2.48	0.333	mg/kg wet	3.333	74	40-140	13	30
1,3-Dichlorobenzene	2.41	0.333	mg/kg wet	3.333	72	40-140	13	30
1,4-Dichlorobenzene	2.46	0.167	mg/kg wet	3.333	74	40-140	18	30
2,4,5-Trichlorophenol	2.78	0.333	mg/kg wet	3.333	83	30-130	5	30
2,4,6-Trichlorophenol	2.75	0.167	mg/kg wet	3.333	83	30-130	7	30
2,4-Dichlorophenol	2.63	0.167	mg/kg wet	3.333	79	30-130	9	30
2,4-Dimethylphenol	2.49	0.167	mg/kg wet	3.333	75	30-130	13	30
2,4-Dinitrophenol	2.47	0.667	mg/kg wet	3.333	74	30-130	6	30
2,4-Dinitrotoluene	3.16	0.167	mg/kg wet	3.333	95	40-140	5	30
2,6-Dinitrotoluene	2.86	0.333	mg/kg wet	3.333	86	40-140	4	30
2-Chloronaphthalene	2.39	0.333	mg/kg wet	3.333	72	40-140	11	30
2-Chlorophenol	2.45	0.167	mg/kg wet	3.333	73	30-130	17	30
2-Methylnaphthalene	2.40	0.167	mg/kg wet	3.333	72	40-140	14	30
2-Methylphenol	2.49	0.333	mg/kg wet	3.333	75	30-130	16	30



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

2-Nitrophenol	2.44	0.333	mg/kg wet	3.333	73	30-130	14	30		
3,3'-Dichlorobenzidine	2.32	0.333	mg/kg wet	3.333	70	40-140	12	30		
3+4-Methylphenol	5.13	0.667	mg/kg wet	6.667	77	30-130	15	30		
4-Bromophenyl-phenylether	2.90	0.333	mg/kg wet	3.333	87	40-140	3	30		
4-Chloroaniline	2.29	0.333	mg/kg wet	3.333	69	40-140	17	30		
4-Nitrophenol	2.57	1.67	mg/kg wet	3.333	77	30-130	7	30		
Acenaphthene	2.43	0.333	mg/kg wet	3.333	73	40-140	8	30		
Acenaphthylene	2.51	0.333	mg/kg wet	3.333	75	40-140	8	30		
Acetophenone	2.34	0.667	mg/kg wet	3.333	70	40-140	17	30		
Aniline	2.17	1.67	mg/kg wet	3.333	65	40-140	23	30		
Anthracene	2.84	0.333	mg/kg wet	3.333	85	40-140	4	30		
Azobenzene	2.52	0.333	mg/kg wet	3.333	75	40-140	4	30		
Benzo(a)anthracene	3.04	0.333	mg/kg wet	3.333	91	40-140	5	30		
Benzo(a)pyrene	2.90	0.167	mg/kg wet	3.333	87	40-140	5	30		
Benzo(b)fluoranthene	3.09	0.333	mg/kg wet	3.333	93	40-140	4	30		
Benzo(g,h,i)perylene	3.05	0.333	mg/kg wet	3.333	92	40-140	4	30		
Benzo(k)fluoranthene	2.74	0.333	mg/kg wet	3.333	82	40-140	7	30		
bis(2-Chloroethoxy)methane	2.41	0.333	mg/kg wet	3.333	72	40-140	14	30		
bis(2-Chloroethyl)ether	2.35	0.167	mg/kg wet	3.333	71	40-140	16	30		
bis(2-chloroisopropyl)Ether	2.32	0.167	mg/kg wet	3.333	70	40-140	15	30		
bis(2-Ethylhexyl)phthalate	3.11	0.333	mg/kg wet	3.333	93	40-140	3	30		
Butylbenzylphthalate	3.13	0.333	mg/kg wet	3.333	94	40-140	3	30		
Chrysene	2.89	0.167	mg/kg wet	3.333	87	40-140	6	30		
Dibenzo(a,h)Anthracene	3.11	0.167	mg/kg wet	3.333	93	40-140	4	30		
Dibenzofuran	2.52	0.333	mg/kg wet	3.333	76	40-140	7	30		
Diethylphthalate	2.97	0.333	mg/kg wet	3.333	89	40-140	4	30		
Dimethylphthalate	2.87	0.333	mg/kg wet	3.333	86	40-140	4	30		
Di-n-butylphthalate	3.29	0.333	mg/kg wet	3.333	99	40-140	5	30		
Di-n-octylphthalate	3.13	0.333	mg/kg wet	3.333	94	40-140	6	30		
Fluoranthene	3.02	0.333	mg/kg wet	3.333	90	40-140	7	30		
Fluorene	2.69	0.333	mg/kg wet	3.333	81	40-140	5	30		
Hexachlorobenzene	2.91	0.167	mg/kg wet	3.333	87	40-140	3	30		
Hexachlorobutadiene	2.60	0.333	mg/kg wet	3.333	78	40-140	14	30		
Hexachloroethane	2.30	0.167	mg/kg wet	3.333	69	40-140	14	30		
Indeno(1,2,3-cd)Pyrene	3.07	0.333	mg/kg wet	3.333	92	40-140	4	30		
Isophorone	2.14	0.333	mg/kg wet	3.333	64	40-140	12	30		
Naphthalene	2.51	0.333	mg/kg wet	3.333	75	40-140	16	30		
Nitrobenzene	2.33	0.333	mg/kg wet	3.333	70	40-140	14	30		
N-Nitrosodimethylamine	2.33	0.333	mg/kg wet	3.333	70	40-140	20	30		
Pentachlorophenol	3.22	0.667	mg/kg wet	3.333	97	30-130	5	30		
Phenanthrene	2.77	0.333	mg/kg wet	3.333	83	40-140	4	30		
Phenol	2.49	0.333	mg/kg wet	3.333	75	30-130	18	30		
Pyrene	2.87	0.333	mg/kg wet	3.333	86	40-140	3	30		
Surrogate: 1,2-Dichlorobenzene-d4	2.43		mg/kg wet	3.333	73	30-130				
Surrogate: 2,4,6-Tribromophenol	4.75		mg/kg wet	5.000	95	30-130				



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch CE90912 - 3546

Surrogate: 2-Chlorophenol-d4	3.92	mg/kg wet	5.000	78	30-130
Surrogate: 2-Fluorobiphenyl	2.55	mg/kg wet	3.333	76	30-130
Surrogate: 2-Fluorophenol	3.85	mg/kg wet	5.000	77	30-130
Surrogate: Nitrobenzene-d5	2.40	mg/kg wet	3.333	72	30-130
Surrogate: Phenol-d6	3.88	mg/kg wet	5.000	78	30-130
Surrogate: p-Terphenyl-d14	3.03	mg/kg wet	3.333	91	30-130

MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE91304 - 3546

Blank					
C19-C36 Aliphatics1	ND	15.0	mg/kg wet		
C9-C18 Aliphatics1	ND	15.0	mg/kg wet		
Decane (C10)	ND	0.5	mg/kg wet		
Docosane (C22)	ND	0.5	mg/kg wet		
Dodecane (C12)	ND	0.5	mg/kg wet		
Eicosane (C20)	ND	0.5	mg/kg wet		
Hexacosane (C26)	ND	0.5	mg/kg wet		
Hexadecane (C16)	ND	0.5	mg/kg wet		
Hexatriacontane (C36)	ND	0.5	mg/kg wet		
Nonadecane (C19)	ND	0.5	mg/kg wet		
Nonane (C9)	ND	0.5	mg/kg wet		
Octacosane (C28)	ND	0.5	mg/kg wet		
Octadecane (C18)	ND	0.5	mg/kg wet		
Tetracosane (C24)	ND	0.5	mg/kg wet		
Tetradecane (C14)	ND	0.5	mg/kg wet		
Triacontane (C30)	ND	0.5	mg/kg wet		

Surrogate: 1-Chlorooctadecane	1.80	mg/kg wet	2.020	89	40-140
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Blank					
2-Methylnaphthalene	ND	0.20	mg/kg wet		
Acenaphthene	ND	0.40	mg/kg wet		
Acenaphthylene	ND	0.20	mg/kg wet		
Anthracene	ND	0.40	mg/kg wet		
Benzo(a)anthracene	ND	0.40	mg/kg wet		
Benzo(a)pyrene	ND	0.40	mg/kg wet		
Benzo(b)fluoranthene	ND	0.40	mg/kg wet		
Benzo(g,h,i)perylene	ND	0.40	mg/kg wet		
Benzo(k)fluoranthene	ND	0.40	mg/kg wet		
C11-C22 Unadjusted Aromatics1	ND	15.0	mg/kg wet		
Chrysene	ND	0.40	mg/kg wet		
Dibenzo(a,h)Anthracene	ND	0.20	mg/kg wet		
Fluoranthene	ND	0.40	mg/kg wet		
Fluorene	ND	0.40	mg/kg wet		
Indeno(1,2,3-cd)Pyrene	ND	0.40	mg/kg wet		



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 1905331

Quality Control Data

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MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch CE91304 - 3546										
Naphthalene	ND	0.40	mg/kg wet							
Phenanthrene	ND	0.40	mg/kg wet							
Pyrene	ND	0.40	mg/kg wet							
<i>Surrogate: 2-Bromonaphthalene</i>	45.9		mg/L	50.00		92	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	44.3		mg/L	50.00		89	40-140			
<i>Surrogate: O-Terphenyl</i>	1.58		mg/kg wet	2.008		78	40-140			
LCS										
C19-C36 Aliphatics1	20.8	15.0	mg/kg wet	16.00		130	40-140			
C9-C18 Aliphatics1	12.7	15.0	mg/kg wet	12.00		106	40-140			
Decane (C10)	1.2	0.5	mg/kg wet	2.000		59	40-140			
Docosane (C22)	1.8	0.5	mg/kg wet	2.000		91	40-140			
Dodecane (C12)	1.3	0.5	mg/kg wet	2.000		64	40-140			
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000		88	40-140			
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Hexadecane (C16)	1.7	0.5	mg/kg wet	2.000		83	40-140			
Hexatriacontane (C36)	2.4	0.5	mg/kg wet	2.000		120	40-140			
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000		87	40-140			
Nonane (C9)	1.0	0.5	mg/kg wet	2.000		48	30-140			
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000		89	40-140			
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000		90	40-140			
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000		72	40-140			
Triaccontane (C30)	1.8	0.5	mg/kg wet	2.000		91	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	1.76		mg/kg wet	2.020		87	40-140			
LCS										
2-Methylnaphthalene	1.70	0.20	mg/kg wet	2.000		85	40-140			
Acenaphthene	1.58	0.40	mg/kg wet	2.000		79	40-140			
Acenaphthylene	1.60	0.20	mg/kg wet	2.000		80	40-140			
Anthracene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Benzo(a)anthracene	1.76	0.40	mg/kg wet	2.000		88	40-140			
Benzo(a)pyrene	1.81	0.40	mg/kg wet	2.000		90	40-140			
Benzo(b)fluoranthene	1.81	0.40	mg/kg wet	2.000		90	40-140			
Benzo(g,h,i)perylene	1.84	0.40	mg/kg wet	2.000		92	40-140			
Benzo(k)fluoranthene	2.11	0.40	mg/kg wet	2.000		106	40-140			
C11-C22 Unadjusted Aromatics1	39.8	15.0	mg/kg wet	34.00		117	40-140			
Chrysene	2.08	0.40	mg/kg wet	2.000		104	40-140			
Dibenzo(a,h)Anthracene	1.80	0.20	mg/kg wet	2.000		90	40-140			
Fluoranthene	1.90	0.40	mg/kg wet	2.000		95	40-140			
Fluorene	1.63	0.40	mg/kg wet	2.000		82	40-140			
Indeno(1,2,3-cd)Pyrene	1.87	0.40	mg/kg wet	2.000		94	40-140			
Naphthalene	1.29	0.40	mg/kg wet	2.000		65	40-140			
Phenanthrene	1.71	0.40	mg/kg wet	2.000		85	40-140			
Pyrene	1.71	0.40	mg/kg wet	2.000		86	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

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ESS Laboratory Work Order: 1905331

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE91304 - 3546

Surrogate: 2-Bromonaphthalene	38.4	mg/L	50.00	77	40-140
Surrogate: 2-Fluorobiphenyl	42.9	mg/L	50.00	86	40-140
Surrogate: O-Terphenyl	1.83	mg/kg wet	2.008	91	40-140

LCS

2-Methylnaphthalene Breakthrough	0.0	%	0-5
Naphthalene Breakthrough	0.0	%	0-5

LCS Dup

C19-C36 Aliphatics1	20.5	15.0	mg/kg wet	16.00	128	40-140	2	25
C9-C18 Aliphatics1	11.8	15.0	mg/kg wet	12.00	98	40-140	8	25
Decane (C10)	1.0	0.5	mg/kg wet	2.000	51	40-140	14	25
Docosane (C22)	1.8	0.5	mg/kg wet	2.000	90	40-140	0.6	25
Dodecane (C12)	1.1	0.5	mg/kg wet	2.000	57	40-140	10	25
Eicosane (C20)	1.8	0.5	mg/kg wet	2.000	88	40-140	0.4	25
Hexacosane (C26)	1.8	0.5	mg/kg wet	2.000	89	40-140	0.3	25
Hexadecane (C16)	1.6	0.5	mg/kg wet	2.000	81	40-140	2	25
Hexatriacontane (C36)	2.4	0.5	mg/kg wet	2.000	119	40-140	0.8	25
Nonadecane (C19)	1.7	0.5	mg/kg wet	2.000	86	40-140	0.6	25
Nonane (C9)	0.9	0.5	mg/kg wet	2.000	43	30-140	12	25
Octacosane (C28)	1.8	0.5	mg/kg wet	2.000	89	40-140	0.4	25
Octadecane (C18)	1.8	0.5	mg/kg wet	2.000	88	40-140	0.7	25
Tetracosane (C24)	1.8	0.5	mg/kg wet	2.000	89	40-140	0.5	25
Tetradecane (C14)	1.4	0.5	mg/kg wet	2.000	68	40-140	6	25
Triaccontane (C30)	1.8	0.5	mg/kg wet	2.000	91	40-140	0.4	25

Surrogate: 1-Chlorooctadecane	1.73	mg/kg wet	2.020	86	40-140
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LCS Dup

2-Methylnaphthalene	1.69	0.20	mg/kg wet	2.000	85	40-140	0.4	30
Acenaphthene	1.56	0.40	mg/kg wet	2.000	78	40-140	2	30
Acenaphthylene	1.56	0.20	mg/kg wet	2.000	78	40-140	3	30
Anthracene	1.68	0.40	mg/kg wet	2.000	84	40-140	3	30
Benzo(a)anthracene	1.78	0.40	mg/kg wet	2.000	89	40-140	1	30
Benzo(a)pyrene	1.83	0.40	mg/kg wet	2.000	91	40-140	1	30
Benzo(b)fluoranthene	1.83	0.40	mg/kg wet	2.000	92	40-140	2	30
Benzo(g,h,i)perylene	1.82	0.40	mg/kg wet	2.000	91	40-140	0.7	30
Benzo(k)fluoranthene	2.09	0.40	mg/kg wet	2.000	104	40-140	1	30
C11-C22 Unadjusted Aromatics1	39.5	15.0	mg/kg wet	34.00	116	40-140	0.8	25
Chrysene	2.02	0.40	mg/kg wet	2.000	101	40-140	3	30
Dibenzo(a,h)Anthracene	1.80	0.20	mg/kg wet	2.000	90	40-140	0.1	30
Fluoranthene	1.85	0.40	mg/kg wet	2.000	93	40-140	2	30
Fluorene	1.67	0.40	mg/kg wet	2.000	84	40-140	3	30
Indeno(1,2,3-cd)Pyrene	1.88	0.40	mg/kg wet	2.000	94	40-140	0.6	30
Naphthalene	1.26	0.40	mg/kg wet	2.000	63	40-140	3	30
Phenanthrene	1.73	0.40	mg/kg wet	2.000	86	40-140	1	30
Pyrene	1.76	0.40	mg/kg wet	2.000	88	40-140	3	30



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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MADEP-EPH Extractable Petroleum Hydrocarbons

Batch CE91304 - 3546

Surrogate: 2-Bromonaphthalene	38.4	mg/L	50.00	77	40-140
Surrogate: 2-Fluorobiphenyl	43.8	mg/L	50.00	88	40-140
Surrogate: O-Terphenyl	1.85	mg/kg wet	2.008	92	40-140

LCS Dup

2-Methylnaphthalene Breakthrough	0.0	%	0-5	200
Naphthalene Breakthrough	0.0	%	0-5	200



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.

Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
ICV+	Initial Calibration Verification recovery is above upper control limit (ICV+).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Green Environmental, Inc.
Client Project ID: Bliss Corner

ESS Laboratory Work Order: 1905331

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Green Environmental, Inc. - TB/HDM</u>	ESS Project ID: <u>1905331</u>						
Shipped/Delivered Via: <u>ESS Courier</u>	Date Received: <u>5/9/2019</u>						
	Project Due Date: <u>5/16/2019</u>						
	Days for Project: <u>5 Day</u>						
1. Air bill manifest present? Air No.: <u>NA</u>	<input type="checkbox"/> No	6. Does COC match bottles?	<input type="checkbox"/> Yes				
2. Were custody seals present?	<input type="checkbox"/> No	7. Is COC complete and correct?	<input type="checkbox"/> Yes				
3. Is radiation count <100 CPM?	<input type="checkbox"/> Yes	8. Were samples received intact?	<input type="checkbox"/> Yes				
4. Is a Cooler Present? Temp: <u>0.6</u> Iced with: <u>Ice</u>	<input type="checkbox"/> Yes	9. Were labs informed about <u>short holds & rushes</u> ?	<input type="checkbox"/> Yes / <input type="checkbox"/> No / <input type="checkbox"/> NA				
5. Was COC signed and dated by client?	<input type="checkbox"/> Yes	10. Were any analyses received outside of hold time?	<input type="checkbox"/> Yes / <input type="checkbox"/> No				
11. Any Subcontracting needed? ESS Sample IDs: Analysis: TAT:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No / <input type="checkbox"/> NA				
13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>5/9/19</i>	Date: _____ Time: _____ By: _____	Date: _____ Time: <i>1029</i> By: <i>jl</i>				
Sample Receiving Notes: <hr/> <hr/> <hr/>							
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? _____	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Date: _____ Time: _____ By: _____					
 <hr/> <hr/> <hr/>							
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	343245	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
01	343256	Yes	NA	Yes	VOA Vial - Other	Other	
01	343257	Yes	NA	Yes	VOA Vial - Other	Other	
01	343268	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
01	343269	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
02	343244	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
02	343254	Yes	NA	Yes	VOA Vial - Other	Other	
02	343255	Yes	NA	Yes	VOA Vial - Other	Other	
02	343266	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
02	343267	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
03	343243	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
03	343252	Yes	NA	Yes	VOA Vial - Other	Other	
03	343253	Yes	NA	Yes	VOA Vial - Other	Other	
03	343264	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
03	343265	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
04	343242	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
04	343250	Yes	NA	Yes	VOA Vial - Other	Other	
04	343251	Yes	NA	Yes	VOA Vial - Other	Other	
04	343262	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
04	343263	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
05	343241	Yes	NA	Yes	VOA Vial - Methanol	MeOH	
05	343248	Yes	NA	Yes	VOA Vial - Other	Other	
05	343249	Yes	NA	Yes	VOA Vial - Other	Other	
05	343260	Yes	NA	Yes	8 oz. Jar - Unpres	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Green Environmental, Inc. - TB/HDM				ESS Project ID:	1905331
					Date Received:	5/9/2019
05	343261	Yes	NA	Yes	8 oz. Jar - Unpres	NP
06	343240	Yes	NA	Yes	VOA Vial - Methanol	MeOH
06	343246	Yes	NA	Yes	VOA Vial - Other	Other
06	343247	Yes	NA	Yes	VOA Vial - Other	Other
06	343258	Yes	NA	Yes	8 oz. Jar - Unpres	NP

2nd Review

- Were all containers scanned into storage/lab?
- Are barcode labels on correct containers?
- Are all Flashpoint stickers attached/container ID # circled?
- Are all Hex Chrome stickers attached?
- Are all QC stickers attached?
- Are VOA stickers attached if bubbles noted?

Initials A
 Yes / No
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA

Completed
By: _____
Reviewed
By: _____
Delivered
By: _____

Date & Time: 5/9/19 1829
Date & Time: 5/9/19 1925
5/9/19 1929

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab #

1905331

Turn Time					5	Days	Regulatory State	Reporting Limits		Electronic Deliverables					Excel PDF											
Massachusetts					Is this project for any of the following?:			<input type="radio"/> CT RCP	<input checked="" type="radio"/> MA MCP	<input type="radio"/> RGP	<input checked="" type="checkbox"/> Data Checker		<input type="checkbox"/> Other (Please Specify ->)			<input type="checkbox"/> Excel		<input type="checkbox"/> PDF								
Company Name Green Environmental, Inc.			Project # 19137		Project Name Bliss Corner			Analysis	VOC	SVOC	PCB	14 MA metals	EPH carbon chain only													
Contact Person Parrish Smolcha			Address 296C Weymouth Street																							
City Rockland		State MA		Zip Code 02370		PO # 8554																				
Telephone Number 617-479-0550		FAX Number 617-479-5150		Email Address psmolcha@greenenvironmental.com																						
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID																					
					B-4 (3-14")																					
1	5/8/19	9:30	composite	soil	B-10 (0-5')																					
2	5/8/19	13:30	composite	soil	B-3 (6-31")																					
3	5/8/19	11:15	composite	soil	B-16 (0-5')																					
4	5/8/19	12:30	composite	soil	B-9 (0-5')																					
5	5/8/19	14:55	composite	soil	B-8 (0-5')																					
6	5/8/19	8:40	composite	soil																						
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial										V	AG	AG	AG													
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*										7	10	10	10													
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAc, NaOH 9-NH4Cl 10-DI H2O 11-Other*										b/10	1	1	1													
Number of Containers per Sample:										3	1-2	1-2	1-2													
Laboratory Use Only					Sampled by : PCS / AL																					
Cooler Present: <input type="radio"/> Drop Off <input checked="" type="radio"/> Pickup					Comments: Please specify "Other" preservative and containers types in this space																					
Seals Intact:																										
Cooler Temperature: 0.6 °C ICE RC																										
Relinquished by: (Signature, Date & Time)					Received By: (Signature, Date & Time)					Relinquished By: (Signature, Date & Time)					Received By: (Signature, Date & Time)											
R. Smolcha 5/9/19 1305					R. Smolcha 5/9/19 1305					R. Smolcha 5/9/19 1650					R. Smolcha 5/9/19 1650											
Relinquished by: (Signature, Date & Time)					Received By: (Signature, Date & Time)					Relinquished By: (Signature, Date & Time)					Received By: (Signature, Date & Time)											



CERTIFICATE OF ANALYSIS

Parrish Smolcha
Green Environmental, Inc.
296 Weymouth Street Unit C
Rockland, MA 02370

RE: Bliss Corner (19137)
ESS Laboratory Work Order Number: 1905253

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Parrish Smolcha
Green Environmental, Inc.
296 Weymouth Street Unit C
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Laboratory Director

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