FACS
Forensic Analytical Consulting Services

January 17, 2019

Limited Soil Assessment

Malibu High School
30215 Morning View Drive
Malibu, CA 90265

Prepared for:

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FACS Project #PJ40247

Contents

Executive Summary

Forensic Analytical Consulting Services (FACS), on behalf of Santa Monica – Malibu Unified School District (District) has performed soil sampling at the Malibu High School Campus located at 30215 Morning View Drive, Malibu, California. The assessment was performed on December 15 and 21, 2018. This report contains the findings and recommendations from our investigation. FACS's assessment was conducted in accordance with FACS's proposal dated December 19, 2018, as authorized by Mr. Cary Upton, Chief Operations Officer, Santa Monica- Malibu Unified School District, on December 19, 2018.

In November 2018, the Campus soil was affected by deposits of soot and ashes from the Woolsey Fire. Additionally, the Campus also experienced mudflow after rain events, following the Fire, that entered the campus from Clover Heights onto the softball files, baseball infield, and auxiliary field and tennis courts. As part of the approved scope of work, to assess the soil for hazardous classification, on December 15, 2018, FACS collected 20 surface soil samples in the playfields that were in the burn area but were not directly affected by the fire or mudflow. Additionally, to recommend soil erosion preventative measures, on December 21, 2018, 15, one-foot soil samples were collected to test for erodibility potential in the playfields that were in the burn area and were directly affected by the mud flow from off campus. Field activities were overseen by a California licensed Professional Geologist from FACS.

The soil samples (surface and one-foot) were analyzed for VOCs by United States Environmental Protection Agency (EPA) Method 8260B, CAM17 Metals by EPA Method 6020B/7471A, and TPH by EPA Method 8015M. Additionally, the one-foot depth samples were analyzed for Pesticides by EPA Method 8081, pH by EPA Method 9045c, Conductivity by Method SM2510-B, and Grain Size Distribution by ASTM D422/D4464M.

On January 4, 2019, District staff reviewed the analytical results with a California licensed Professional Geologist from FACS. The upper top soils and mud in the playfields do not contain any hazardous materials. No additional testing is recommended, at this time. Any residual soil should be managed by a site-specific Operation and Maintenance plan.

The topography at the Site observed during the site walk indicated slope gradients of greater than 10%. Field observations and laboratory results confirmed that the upper top soils are low plasticity silty soils, which generally have a high erodibility potential, resulting in the Site being at a high risk of erosion from the wildfire. Therefore, FACS recommends that soil erosion preventative measures be implemented at the Site. The laboratory results reported that the upper top soil is alkaline in nature, therefore grass stabilization for revegetation to control soil erosion should be considered.

The objective of the Limited Soil Assessment was to evaluate the soil that was affected by deposits of soot and ashes from the Woolsey Fire in November 2018 and the mudflow that affected the campus after rain events, following the Fire, that entered the campus from Clover Heights onto the softball files, baseball infield, and auxiliary field and tennis courts. No additional testing is recommended at this time. Soil erosion control measures, such as grass stabilization for revegetation, are recommended, as a preventative measure.

If soils or groundwater located on the site are to be disturbed during future excavations or construction activities, proper procedures should be followed with respect to worker health and safety, and any affected soil or groundwater encountered should be properly characterized, treated, and/or disposed in accordance with applicable local, state or federal regulations

Introduction

Forensic Analytical Consulting Services (FACS), on behalf of Santa Monica – Malibu Unified School District (District) has performed soil sampling at the Malibu High School Campus located at 30215 Morning View Drive, Malibu, California. The assessment was performed on December 15 and 21, 2018. This report contains the findings and recommendations from our investigation. FACS's assessment was conducted in accordance with FACS's proposal dated December 19, 2018, as authorized by Mr. Cary Upton, Chief Operations Officer, Santa Monica- Malibu Unified School District, on December 19, 2018.

Scope of Work

The objective of the Limited Soil Assessment was to evaluate the soil that was affected by deposits of soot and ashes from the Woolsey Fire in November 2018 and the mudflow that affected the campus after rain events, following the Fire, that entered the campus from Clover Heights onto the softball files, baseball infield, and auxiliary field and tennis courts.

Field Activities

In November 2018, the Campus soil was affected by deposits of soot and ashes from the Woolsey Fire. Additionally, the Campus also experienced mudflow after rain events, following the Fire, that entered the campus from Clover Heights onto the softball files, baseball infield, and auxiliary field and tennis courts. As part of the approved scope of work, to assess the soil for hazardous classification, on December 15, 2018, FACS collected 20 surface soil samples in the playfields that were in the burn area but were not directly affected by the fire or mudflow. Additionally, to recommend soil erosion preventative measures, on December 21, 2018, 15, one-foot soil samples were collected to test for erodibility potential in the playfields that were in the burn area and were directly affected by the mud flow from off campus. Field activities were overseen by a California licensed Professional Geologist from FACS. The samples locations are presented as Figure 3.

The topography at the Site observed during the site walk indicated slope gradients of greater than 10%. Soil samples were collected and observed to document soil lithology, soil color, and sensory evidence of impairment. The soil samples were field-screened using a photoionization to indicate the presence of total VOCs. No odors were detected in the soil samples and PID readings were observed at Site background levels of up to 1 part per million by volume (ppmv). Following completion of sampling activities, the one-foot soil samples were backfilled with native soil. Soil samples were collected and placed in laboratory prepared glassware and placed on ice in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Enthalpy Analytical Laboratory, in Orange, California for expedited (24-hour) turnaround.

Laboratory Analytical Methods

The soil samples (surface and one-foot) were analyzed for VOCs by United States Environmental Protection Agency (EPA) Method 8260B, CAM17 Metals by EPA Method 6020B/7471A, and TPH by EPA Method 8015M. Additionally, the one-foot depth samples were analyzed for Pesticides by EPA Method 8081, pH by EPA Method 9045c, Conductivity by Method SM2510-B, and Grain Size Distribution by ASTM D422/D4464M.

Laboratory results are summarized in the Tables 1 through Table 5. The executed chain-of-custody form and laboratory data sheets are provided in Appendix A.

Data Evaluation

Hazardous classification

The soil samples did not exhibit VOCs above laboratory reporting limits, except for Acetone at 260 micrograms per kilograms (μg/Kg) in the surface sample collected behind the tennis court. In in 1-foot samples, pesticide 4,4'-DDT were detected only in the soccer field 2 at concentrations from 5.3 to 9.9 μg/Kg. Six of the 35 samples collected reported TPH diesel ranging between 14 to 200 milligrams per Kilograms (mg/Kg) and three of the 35 samples collected reported TPH motor oil ranging between 29 to 100 mg/Kg. Summary of the analytical results for TPH is presented as Table 1.

Detected Metals for the surface samples above relevant laboratory reporting limits: arsenic (1.32 to 10.7 mg/Kg), barium (50.4 to 209 mg/Kg), cadmium (0.51 to 2.24 mg/Kg), chromium (11.5 to 71.1 mg/Kg), cobalt (4.73 to 35.2 mg/Kg), copper (10.1 to 30.3 mg/Kg), lead (4.44 to 21.1 mg/Kg), molybdenum (1.07 to 2.73 mg/Kg), nickel (1 to 151 mg/Kg), selenium was detected in one sample at 3.46 mg/Kg, thallium was detected in one sample at 4.84 mg/Kg, vanadium (18.2 to 63.6 mg/Kg), and zinc (34.7 to 79.1 mg/Kg). Detected Metals for one-foot samples above relevant laboratory reporting limits: arsenic (1.17 to 17.7 mg/Kg), barium (61.7 to 140 mg/Kg), cadmium (1.33 to 2.86 mg/Kg), chromium (33.6 to 80 mg/Kg), cobalt (9.81 to 25.4 mg/Kg), copper (14.8 to 32.7 mg/Kg), lead (3.55 to 15.7 mg/Kg), molybdenum (1.15 to 4.15 mg/Kg), nickel (30.6 to 84.4 mg/Kg), thallium was detected in one sample at 6.99 mg/Kg, vanadium (39.9 to 79.8 mg/Kg), and zinc (36.8 to 71.7 mg/Kg). Summary of the analytical results for Metals are presented as Table 2.

FACS compared the detected metals concentrations to Total Threshold Limit Concentrations (TTLC) Regulatory Limits used for California regulated hazardous waste, Title 22, Chapter 11, Article 3. The reported metal concentrations were below the applicable TTLC concentrations. However, in 19 of 35 samples collected, chromium concentrations exceeded, ten time (greater than 50 mg/Kg by weight) the Soluble Threshold Limit Concentrations (STLC) of 5 mg/L. Due to homogeneity of the samples, STLC analysis was performed on only eight of the 19 samples. The tests were done in accordance with Code of Federal Regulations, Part 40, Title 261 (40CFR261) and Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24, respectively. The reported concentrations of STLC analysis were below the applicable laboratory reporting limits of 0.050 mg/L and thereby below the regulatory limits established at 5 mg/L. Summary of the analytical results for STLC for chromium are presented as Table 2.

Erodibility Potential

Additional soil samples were collected in the burn area for pH, conductivity, and grain size distribution to develop site-specific soil erosion preventative measures. pH concentrations of the soil were reported in the alkaline range from 7.73 to 8.14. Conductivity ranged between 167 to 888 micro ohms per cm. Analytical results for pH and conductivity are summarized in Table 3 and 4, respectively.

Findings and Recommendations

On January 4, 2019, District staff reviewed the analytical results with a California licensed Professional Geologist from FACS. Based on the field observations and reported laboratory analysis, FACS has made the following conclusions and recommendations:

Hazardous classification

- Based on the analytical results, the on-site upper top soils appear to be affected by metals. However, the concentrations of the metals are below applicable TTLC Regulatory Limits used for California regulated hazardous waste, Title 22, Chapter 11, Article 3 and below STLC Regulatory Limits for total chromium.
- Therefore, the upper top soils and mud in the playfields do not contain any hazardous materials.
- Any residual soil should be managed by a site-specific Operation and Maintenance plan.

Erodibility Potential

- The topography at the Site observed during the site walk indicated slope gradients of greater than 10%.
- Field observations and laboratory results confirmed that the upper top soils are low plasticity silty soils, which generally have a high erodibility potential, resulting in the Site being at a high risk of erosion from the wildfire.
- Therefore, FACS recommends that soil erosion preventative measures be implemented at the Site.
- The laboratory results reported that the upper top soil is alkaline in nature, therefore grass stabilization for revegetation to control soil erosion should be considered.

The objective of the Limited Soil Assessment was to evaluate the soil that was affected by deposits of soot and ashes from the Woolsey Fire in November 2018 and the mudflow that affected the campus after rain events, following the Fire, that entered the campus from Clover Heights onto the softball files, baseball infield, and auxiliary field and tennis courts. No additional testing is recommended at this time. Soil erosion control measures, such as grass stabilization for revegetation, are recommended, as a preventative measure.

If soils or groundwater located on the site are to be disturbed during future excavations or construction activities, proper procedures should be followed with respect to worker health and safety, and any affected soil or groundwater encountered should be properly characterized, treated, and/or disposed in accordance with applicable local, state or federal regulations.

Limitations

This investigation is limited to the conditions and practices observed and information made available to FACS. The methods, conclusions and recommendations provided are based on FACS' judgment, expertise and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our offices at 310-668-5600 with any questions or concerns. Thank you for the opportunity to assist Santa Monica – Malibu Unified School District promoting a more healthful environment.

Respectfully,
FORENSIC ANALYTICAL

Munzer Alkassas
Technician

Reviewed by:
FORENSIC ANALYTICAL

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Figures

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SITE LOCATION MAP

Malibu High School
30215 Morning View Dr, Malibu, CA 90265

Project No.
PJ40247

Figure
1

EXPLANATION

⊕ Soil Boring Location (at surface)

Property Boundary

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N

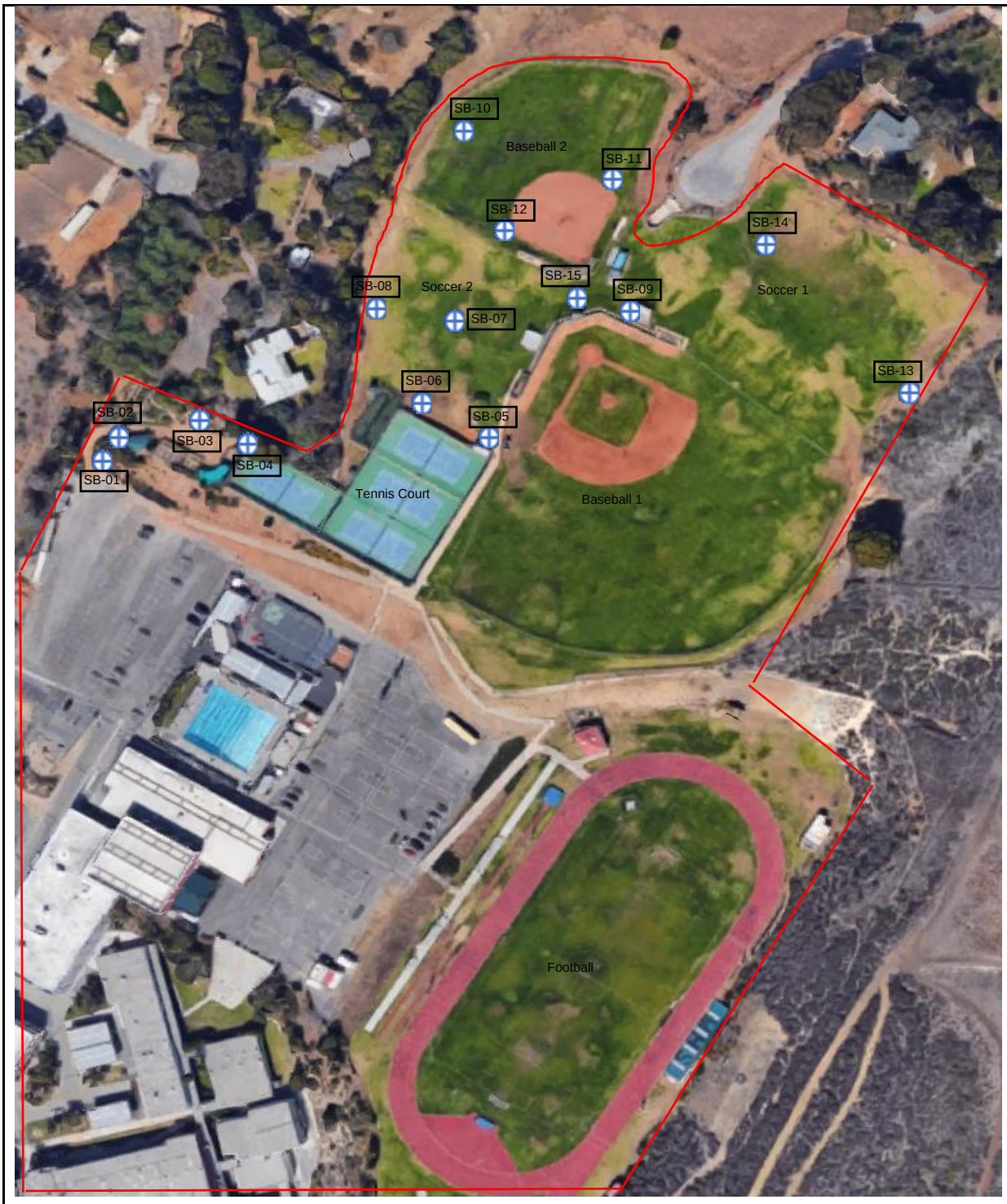
0 50 100 200 Feet

Sample Locations - Surface

Malibu High School
30215 Morning View Dr, Malibu, CA 90265

Project No. PJ40247

Figure 2



EXPLANATION

⊕ Soil Boring Location (at 1 ft depth)

Property Boundary

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310.763.8684

N

0 50 100 200 Feet

Sample Locations - One-foot

Malibu High School
30215 Morning View Dr, Malibu, CA 90265

Project No. PJ40247

Figure 3

Tables

Table 1
Total Petroleum Hydrocarbons
Malibu High School
30215 Morning View Dr, Malibu, CA
FACS Project No. PJ40247

Client Sample I.D.	Sample Depth feet bgs	Sample Date	Total Petroleum Hydrocarbons (mg/Kg)		
			Gasoline	Diesel	Motor Oil
			C6-C12	C13-C28	C29-C40
01 - Soccer 1	surface	12/15/18	<10	27	<20
02 - Soccer 1	surface	12/15/18	<10	<10	<20
03 - Soccer 1	surface	12/15/18	<10	<10	<20
04 - Baseball 2	surface	12/15/18	<10	<10	<20
05 - Baseball 2	surface	12/15/18	<10	<10	<20
06 - Baseball 2	surface	12/15/18	<10	16	<20
07 - Soccer 2	surface	12/15/18	<10	20	<20
08 - Soccer 2	surface	12/15/18	<10	<10	<20
09 - Baseball 1	surface	12/15/18	<10	<10	<20
10 - Baseball 1	surface	12/15/18	<10	<10	<20
11 - Baseball 2	surface	12/15/18	<10	<10	<20
12 - Baseball 2	surface	12/15/18	<10	<10	<20
13 - Soccer 1	surface	12/15/18	<10	200	100
14 - Basketball	surface	12/15/18	<10	<10	<20
15 - Football	surface	12/15/18	<10	<10	<20
16 - Football	surface	12/15/18	<10	<10	<20
17 - Football	surface	12/15/18	<10	<10	<20
18 - Football	surface	12/15/18	<10	<10	<20
19 - Football	surface	12/15/18	<10	<10	<20
20 - Football	surface	12/15/18	<10	14	29
01-Behind tennis court	1	12/21/18	<20	<10	<20
02-Behind tennis court	1	12/21/18	<10	20	41
03-Behind tennis court	1	12/21/18	<10	<10	<20
04-Behind tennis court	1	12/21/18	<10	<10	<20
05-Soccer 2	1	12/21/18	<10	<10	<20
06-Soccer 2	1	12/21/18	<10	<10	<20
07-Soccer 2	1	12/21/18	<10	<10	<20
08-Soccer 2	1	12/21/18	<10	<10	<20
09-Baseball 2	1	12/21/18	<10	<10	<20
10-Baseball 1	1	12/21/18	<10	<10	<20
11-Baseball 2	1	12/21/18	<10	<10	<20
12-Baseball 2	1	12/21/18	<10	<10	<20
13-Soccer 1	1	12/21/18	<10	<10	<20
14-Soccer 1	1	12/21/18	<10	<10	<20
15-Soccer 1	1	12/21/18	<10	<10	<20

Notes:

feet bgs	feet below grade surface
mg/kg	milligrams per kilograms
<	less than the reported detection limit

Table 2
Detected Metals
Malibu High School
30215 Morning View Dr, Malibu, CA
FACS Project No. PJ40247

Sample I.D	Sample Depth feet bgs	Sample Date	Arsenic	Antimony	Barium	Cadmium	Chromium	Chromium mg/L	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Thallium	Vanadium	Zinc
01 - Soccer 1	surface	12/15/18	2.23	<3	71.8	1.99	53.3	<0.05	15.6	22.8	5.51	2.73	58	<3	<3	60.1	50.2
02 - Soccer 1	surface	12/15/18	3.34	<3	60.8	2.18	55	<0.05	17	23.1	6.72	2.4	58.9	<3	4.84	60.8	53.3
03 - Soccer 1	surface	12/15/18	1.9	<3	55.4	1.98	49.4	<0.05	15.6	23	6.62	1.2	54.4	<3	<3	56.7	46.5
04 - Baseball 2	surface	12/15/18	7.89	3.79	209	0.94	15	NS	7.31	15	14.8	1.13	13.6	<3	<3	32.3	45.2
05 - Baseball 2	surface	12/15/18	2.51	<3	61	1.64	37.6	NS	12.3	19.9	6.84	<1	47.5	<3	<3	42.5	53.4
06 - Baseball 2	surface	12/15/18	3.26	<3	77.4	1.87	59.1	<0.05	19.3	26.5	12.2	<1	68.2	<3	<3	57.8	56.2
07 - Soccer 2	surface	12/15/18	2.57	<3	56.2	1.77	33.1	NS	12.8	19.2	7.82	2.61	49.1	<3	<3	40.7	58.4
08 - Soccer 2	surface	12/15/18	1.79	<3	81	2.06	55.2	<0.05	16.7	26.4	8.57	1.62	64.2	<3	<3	62.3	79.1
09 - Baseball 1	surface	12/15/18	2.13	<3	118	0.57	16.7	NS	7.29	13.8	7.63	<1	11.6	<3	<3	28.5	49.5
10 - Baseball 1	surface	12/15/18	1.84	3.58	86.3	1.41	36.1	NS	12.3	19	6.59	1.47	38.7	<3	<3	50.2	54.6
11 - Baseball 2	surface	12/15/18	3.37	<3	56	1.85	33	NS	14	19.4	11.6	1.69	53.2	<3	<3	39.2	47.3
12 - Baseball 2	surface	12/15/18	10.7	<3	157	0.93	20.3	NS	9.96	13.9	21.1	1.07	23.2	<3	<3	33.2	47.5
13 - Soccer 1	surface	12/15/18	3.04	<3	68.6	2.05	51	<0.05	16	24.3	5.86	1.9	60.7	<3	<3	57.8	66.8
14 - Basketball	surface	12/15/18	2.36	4.36	62.5	0.87	18.9	NS	6.04	12	5.61	<1	19.2	<3	<3	30.5	75.2
15 - Football	surface	12/15/18	<1	<3	152	1.44	71.1	<0.05	35.2	30.3	4.44	<1	151	<3	<3	54.6	56
16 - Football	surface	12/15/18	5.56	<3	50.4	0.74	24.6	NS	9.41	13.9	6.5	<1	38.6	3.46	<3	28.6	34.7
17 - Football	surface	12/15/18	1.69	<3	53.7	0.51	11.5	NS	4.73	10.1	7.37	<1	10	<3	<3	18.2	50.3
18 - Football	surface	12/15/18	1.32	<3	79.7	<0.5	11.6	NS	5.73	17	8.24	<1	8.8	<3	<3	23.5	51
19 - Football	surface	12/15/18	3.36	<3	105	0.82	14.6	NS	5.88	31.8	17	<1	12.2	<3	<3	24.6	73.8
20 - Football	surface	12/15/18	2.33	<3	143	2.24	59.2	<0.05	18	26.8	6.64	<1	68.9	<3	<3	63.6	51.6
01-Behind tennis court	1	12/21/18	17.7	<3	140	1.67	36.5	NS	9.81	20.4	8.3	<1	30.6	<3	<3	39.9	49.5
02-Behind tennis court	1	12/21/18	9.13	<3	89.6	2.21	76.6	NS	18.2	25.8	6.12	1.85	66.5	<3	6.99	66.4	58.3
03-Behind tennis court	1	12/21/18	2.67	<3	138	2.86	62.2	NS	15.5	26.5	11.1	1.81	64	<3	<3	79.8	65.4
04-Behind tennis court	1	12/21/18	2.43	<3	61.7	1.99	58.4	NS	16.7	20.3	4.48	<1	61.5	<3	<3	68.2	51.7
05-Soccer 2	1	12/21/18	<1	<3	99.7	2.2	62.6	NS	18	22.4	8.3	<1	67	<3	<3	69.3	71.7
06-Soccer 2	1	12/21/18	2.84	<3	101	2.42	70.2	NS	20.8	27.2	15.7	<1	72.7	<3	<3	72.6	58.8
07-Soccer 2	1	12/21/18	1.76	<3	70.7	2.14	57.3	NS	15.7	23.4	7.32	<1	58	<3	<3	63.1	55.4
08-Soccer 2	1	12/21/18	<1	<3	64.6	1.98	80	NS	25.4	32.7	7.58	<1	84.4	<3	<3	75.3	59.3
09-Baseball 2	1	12/21/18	<1	<3	73	2.19	66.1	NS	17.7	22.6	8.07	4.15	62	<3	<3	69.9	60.9
10-Baseball 1	1	12/21/18	2.67	<3	81.6	2.26	61.1	NS	16.7	22.4	5.92	<1	57.5	<3	<3	64.7	49.9
11-Baseball 2	1	12/21/18	1.17	<3	81.8	2.22	62.3	NS	19.8	22.9	6.02	1.7	68.6	<3	<3	67.6	51.6
12-Baseball 2	1	12/21/18	5.04	<3	101	1.33	33.6	NS	10.7	14.8	6.38	<1	34.5	<3	<3	45.3	48.8
13-Soccer 1	1	12/21/18	3.06	<3	74.4	2.16	54.2	NS	21.8	20.9	3.55	1.15	62.7	<3	<3	59.2	42.3
14-Soccer 1	1	12/21/18	1.46	<3	81.8	2.09	58.5	NS	17.7	18	5.69	<1	57.2	<3	<3	64	36.8
15-Soccer 1	1	12/21/18	2.62	<3	78.8	2.08	45.3	NS	12.9	16.8	<1	2.72	51.8	<3	3.98	54.4	41.8
TTLC (mg/kg)			**500**	**500**	**10000**	**100**	**2500**	**NA**	**8000**	**2500**	**1000**	**3500**	**2000**	**100**	**700**	**2400**	**5000**
STLC (mg/L)			**NA**	**NA**	**NA**	**NA**	**NA**	**5**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Notes:

mg/kg	milligrams per kilograms
mg/L	milligrams per Liter
<	less than the reported detection limit
NS	Not sampled
NA	Not applicable
TTLC	Total Threshold Limit Concentrations Regulatory Limits used for California regulated hazardous waste
STLC	Soluble Threshold Limit Concentrations Regulatory Limits used for California regulated hazardous waste

Table 3
pH
Malibu High School
30215 Morning View Dr, Malibu, CA
FACS Project No. PJ40247

Client Sample I.D.	Sample Date	pH (pH units)
01-Behind tennis court	12/21/18	8.14
02-Behind tennis court	12/21/18	7.62
03-Behind tennis court	12/21/18	7.64
04-Behind tennis court	12/21/18	7.88
05-Soccer 2	12/21/18	7.40
06-Soccer 2	12/21/18	7.49
07-Soccer 2	12/21/18	7.51
08-Soccer 2	12/21/18	7.61
09-Baseball 2	12/21/18	7.61
10-Baseball 1	12/21/18	7.48
11-Baseball 2	12/21/18	7.49
12-Baseball 2	12/21/18	7.82
13-Soccer 1	12/21/18	7.90
14-Soccer 1	12/21/18	7.94
15-Soccer 1	12/21/18	7.73

Table 4		
Conductivity		
Malibu High School 30215 Morning View Dr, Malibu, CA FACS Project No. PJ40247		
Client Sample I.D.	**Sample Date**	**Conductivity µmhos/cm**
01-Behind tennis court	12/21/18	390
02-Behind tennis court	12/21/18	278
03-Behind tennis court	12/21/18	888
04-Behind tennis court	12/21/18	167
05-Soccer 2	12/21/18	262
06-Soccer 2	12/21/18	267
07-Soccer 2	12/21/18	411
08-Soccer 2	12/21/18	316
09-Baseball 2	12/21/18	409
10-Baseball 1	12/21/18	511
11-Baseball 2	12/21/18	742
12-Baseball 2	12/21/18	256
13-Soccer 1	12/21/18	290
14-Soccer 1	12/21/18	347
15-Soccer 1	12/21/18	398

Notes:

µmhos/cm micromhos per centimeter

Table 5
Grain Size Distribution
Malibu High School
30215 Morning View Dr, Malibu, CA
FACS Project No. PJ40247

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, (mm)	Component Percentages								
			Granule	Sand Size					Silt	Clay	Silt & Clay
				VCoarse	Coarse	Medium	Fine	VFine			
01-Behind tennis court	Very Fine Grain Sand	0.1081	8.77	9.51	10.82	9.72	9.24	6.94	31.75	13.25	45.00
02-Behind tennis	Silt	0.0475	14.87	0.01	5.85	9.72	7.53	8.71	37.21	16.11	53.32
03-Behind tennis	Silt	0.0310	5.60	6.47	9.87	8.29	6.34	6.58	35.66	21.18	56.84
04-Behind tennis court	Medium Grain Sand	0.6431	25.03	11.96	17.79	10.62	5.79	4.31	16.13	8.37	24.50
05-Soccer 2	Silt	0.0058	9.97	0.00	0.00	0.00	0.00	0.00	51.16	38.87	90.03
06-Soccer 2	Silt	0.0084	0.96	0.00	0.00	0.00	0.00	0.00	69.78	29.26	99.04
07-Soccer 2	Silt	0.0123	11.42	0.00	0.00	0.00	0.00	0.00	67.83	20.75	88.58
08-Soccer 2	Silt	0.0075	0.00	0.00	0.00	0.00	0.00	0.00	71.56	28.44	100.00
09-Baseball 2	Very Fine Grain Sand	0.0857	6.90	0.01	10.28	16.14	10.79	9.77	34.67	11.43	46.10
10-Baseball 1	Silt	0.0125	19.65	0.00	0.00	0.00	0.00	0.00	59.15	21.20	80.35
11-Baseball 2	Silt	0.0069	10.95	0.00	0.00	0.00	0.00	0.00	52.91	36.14	89.05
12-Baseball 2	Silt	0.0079	0.45	0.00	0.00	0.00	0.00	0.00	71.63	27.91	99.55
13-Soccer 1	Silt	0.0046	3.11	0.00	0.00	0.00	0.00	0.00	51.92	44.97	96.89
14-Soccer 1	Silt	0.0046	2.56	0.00	0.00	0.00	0.00	0.00	52.75	44.68	97.44
15-Soccer 1	Silt	0.0065	5.98	0.00	0.00	0.00	0.00	0.00	56.47	37.55	94.02

Note:
mm millimeter

Appendix A
Laboratory Data Sheet

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Forensic Analytical Consulting Services
Address: 2959 E Pacific Commerce Dr
Rancho Dominguez, CA 90221

Attn: Pearl Pereira

Comments: Malibu HS - Soil Sampling
#PJ40247

Lab Request: 410059
Report Date: 12/18/2018
Date Received: 12/15/2018
Client ID: 15899

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
410059-001	01 - Soccer 1
410059-002	02 - Soccer 1
410059-003	03 - Soccer 1
410059-004	04 - Baseball 2
410059-005	05 - Baseball 2
410059-006	06 - Baseball 2
410059-007	07 - Soccer 2
410059-008	08 - Soccer 2
410059-009	09 - Baseball 1
410059-010	10 - Baseball 1
410059-011	11 - Baseball 2
410059-012	12 - Baseball 2
410059-013	13 - Soccer 1
410059-014	14 - Basketball
410059-015	15 - Football
410059-016	16 - Football
410059-017	17 - Football
410059-018	18 - Football
410059-019	19 - Football
410059-020	20 - Football

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:00 **Site:**
Sample #: 410059-001 **Client Sample #:** 01 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**2.23**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**71.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.99**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**53.3**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**15.6**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**22.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**5.51**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**2.73**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**58.0**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**60.1**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**50.2**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	**27**	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*86*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*86*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:00	**Site:**			
Sample #:	**410059-001**	**Client Sample #:**	01 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:00	**Site:**			
Sample #:	**410059-001**	**Client Sample #:**	01 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*106*		*70-145*					
4-Bromofluorobenzene (SUR)	*101*		*70-145*					
Dibromofluoromethane (SUR)	*105*		*70-145*					
Toluene-d8 (SUR)	*96*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:15 **Site:**
Sample #: 410059-002 **Client Sample #:** 02 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**3.34**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**60.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**2.18**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**55.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**17.0**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**23.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**6.72**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**2.40**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**58.9**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	**4.84**	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**60.8**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**53.3**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*92*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*81*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:15	**Site:**			
Sample #:	**410059-002**	**Client Sample #:**	02 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:15	**Site:**			
Sample #:	**410059-002**	**Client Sample #:**	02 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*102*		*70-145*					
Dibromofluoromethane (SUR)	*102*		*70-145*					
Toluene-d8 (SUR)	*99*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:25 **Site:**
Sample #: 410059-003 **Client Sample #:** 03 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**1.90**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**55.4**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.98**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**49.4**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**15.6**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**23.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**6.62**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.20**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**54.4**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**56.7**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**46.5**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*105*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*100*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:25	**Site:**			
Sample #:	**410059-003**	**Client Sample #:**	03 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:25	**Site:**			
Sample #:	**410059-003**	**Client Sample #:**	03 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*100*		*70-145*					
Dibromofluoromethane (SUR)	*102*		*70-145*					
Toluene-d8 (SUR)	*100*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:35 **Site:**
Sample #: 410059-004 **Client Sample #:** 04 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**7.89**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**209**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.94**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**15.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**7.31**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**15.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**14.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.13**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**13.6**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**32.3**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**45.2**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*95*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*78*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:35	**Site:**			
Sample #:	**410059-004**	**Client Sample #:**	04 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:35	**Site:**			
Sample #:	**410059-004**	**Client Sample #:**	04 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*107*		*70-145*					
4-Bromofluorobenzene (SUR)	*97*		*70-145*					
Dibromofluoromethane (SUR)	*109*		*70-145*					
Toluene-d8 (SUR)	*97*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:45 **Site:**
Sample #: 410059-005 **Client Sample #:** 05 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**2.51**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**61.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.64**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**37.6**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**12.3**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**19.9**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**6.84**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**47.5**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**42.5**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**53.4**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*90*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*91*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:45	**Site:**			
Sample #:	**410059-005**	**Client Sample #:**	05 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:45	**Site:**			
Sample #:	**410059-005**	**Client Sample #:**	05 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*104*		*70-145*					
4-Bromofluorobenzene (SUR)	*103*		*70-145*					
Dibromofluoromethane (SUR)	*107*		*70-145*					
Toluene-d8 (SUR)	*102*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:55 **Site:**
Sample #: 410059-006 **Client Sample #:** 06 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**3.26**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**77.4**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.87**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**59.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**19.3**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**26.5**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**12.2**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**68.2**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**57.8**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**56.2**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	**16**	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*116*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*61*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:55	**Site:**			
Sample #:	**410059-006**	**Client Sample #:**	06 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:55	**Site:**			
Sample #:	**410059-006**	**Client Sample #:**	06 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*103*		*70-145*					
Dibromofluoromethane (SUR)	*104*		*70-145*					
Toluene-d8 (SUR)	*101*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:10 **Site:**
Sample #: 410059-007 **Client Sample #:** 07 - Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**2.57**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**56.2**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.77**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**33.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**12.8**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**19.2**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**7.82**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**2.61**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**49.1**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**40.7**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**58.4**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	**20**	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*96*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*60*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:10	**Site:**			
Sample #:	**410059-007**	**Client Sample #:**	07 - Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:10	**Site:**			
Sample #:	**410059-007**	**Client Sample #:**	07 - Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*100*		*70-145*					
4-Bromofluorobenzene (SUR)	*104*		*70-145*					
Dibromofluoromethane (SUR)	*103*		*70-145*					
Toluene-d8 (SUR)	*105*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:20 **Site:**
Sample #: 410059-008 **Client Sample #:** 08 - Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**1.79**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**81.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**2.06**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**55.2**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**16.7**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**26.4**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**8.57**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.62**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**64.2**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**62.3**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**79.1**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*95*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*54*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:20	**Site:**			
Sample #:	**410059-008**	**Client Sample #:**	08 - Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:20	**Site:**			
Sample #:	**410059-008**	**Client Sample #:**	08 - Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*103*		*70-145*					
Dibromofluoromethane (SUR)	*105*		*70-145*					
Toluene-d8 (SUR)	*102*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:30 **Site:**
Sample #: 410059-009 **Client Sample #:** 09 - Baseball 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**2.13**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**118**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.57**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**16.7**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**7.29**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**13.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**7.63**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**11.6**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**28.5**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**49.5**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*118*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*63*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:30	**Site:**			
Sample #:	**410059-009**	**Client Sample #:**	09 - Baseball 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:30	**Site:**			
Sample #:	**410059-009**	**Client Sample #:**	09 - Baseball 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*101*		*70-145*					
Dibromofluoromethane (SUR)	*103*		*70-145*					
Toluene-d8 (SUR)	*100*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:40 **Site:**
Sample #: 410059-010 **Client Sample #:** 10 - Baseball 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**1.84**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**86.3**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.41**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**36.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**12.3**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**19.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**6.59**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.47**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**38.7**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**50.2**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**54.6**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*131*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*72*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:40	**Site:**			
Sample #:	**410059-010**	**Client Sample #:**	10 - Baseball 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:40	**Site:**			
Sample #:	**410059-010**	**Client Sample #:**	10 - Baseball 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*103*		*70-145*					
4-Bromofluorobenzene (SUR)	*100*		*70-145*					
Dibromofluoromethane (SUR)	*106*		*70-145*					
Toluene-d8 (SUR)	*99*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:00 **Site:**
Sample #: 410059-011 **Client Sample #:** 11 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**3.37**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**56.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.85**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**33.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**14.0**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**19.4**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**11.6**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.69**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**53.2**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**39.2**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**47.3**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*124*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*57*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:00	**Site:**			
Sample #:	**410059-011**	**Client Sample #:**	11 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:00	**Site:**			
Sample #:	**410059-011**	**Client Sample #:**	11 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*102*		*70-145*					
4-Bromofluorobenzene (SUR)	*103*		*70-145*					
Dibromofluoromethane (SUR)	*107*		*70-145*					
Toluene-d8 (SUR)	*101*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:10 **Site:**
Sample #: 410059-012 **Client Sample #:** 12 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**10.7**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**157**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.93**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**20.3**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**9.96**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**13.9**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**21.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.07**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**23.2**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**33.2**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**47.5**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*143*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*61*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:10	**Site:**			
Sample #:	**410059-012**	**Client Sample #:**	12 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:10	**Site:**			
Sample #:	**410059-012**	**Client Sample #:**	12 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*102*		*70-145*					
4-Bromofluorobenzene (SUR)	*98*		*70-145*					
Dibromofluoromethane (SUR)	*103*		*70-145*					
Toluene-d8 (SUR)	*99*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:20 **Site:**
Sample #: 410059-013 **Client Sample #:** 13 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**3.04**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**68.6**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**2.05**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**51.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**16.0**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**24.3**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**5.86**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	**1.90**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**60.7**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**57.8**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**66.8**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	**200**	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	**100**	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*126*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*52*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:20	**Site:**			
Sample #:	**410059-013**	**Client Sample #:**	13 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:20	**Site:**			
Sample #:	**410059-013**	**Client Sample #:**	13 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*104*		*70-145*					
4-Bromofluorobenzene (SUR)	*100*		*70-145*					
Dibromofluoromethane (SUR)	*105*		*70-145*					
Toluene-d8 (SUR)	*102*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:30 **Site:**
Sample #: 410059-014 **Client Sample #:** 14 - Basketball **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**2.36**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**62.5**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.87**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**18.9**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**6.04**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**12.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**5.61**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**19.2**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**30.5**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**75.2**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*135*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*92*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:30	**Site:**			
Sample #:	**410059-014**	**Client Sample #:**	14 - Basketball	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:30	**Site:**			
Sample #:	**410059-014**	**Client Sample #:**	14 - Basketball	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*100*		*70-145*					
4-Bromofluorobenzene (SUR)	*99*		*70-145*					
Dibromofluoromethane (SUR)	*105*		*70-145*					
Toluene-d8 (SUR)	*99*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:40 **Site:**
Sample #: 410059-015 **Client Sample #:** 15 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**152**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**1.44**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**71.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**35.2**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**30.3**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**4.44**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**151**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**54.6**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**56.0**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*130*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*55*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:40	**Site:**			
Sample #:	**410059-015**	**Client Sample #:**	15 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:40	**Site:**			
Sample #:	**410059-015**	**Client Sample #:**	15 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*98*		*70-145*					
Dibromofluoromethane (SUR)	*104*		*70-145*					
Toluene-d8 (SUR)	*100*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:50 **Site:**
Sample #: 410059-016 **Client Sample #:** 16 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**5.56**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**50.4**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.74**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**24.6**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**9.41**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**13.9**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**6.50**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**38.6**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	**3.46**	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**28.6**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**34.7**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*114*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*62*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:50	**Site:**			
Sample #:	**410059-016**	**Client Sample #:**	16 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 15:50	**Site:**			
Sample #:	**410059-016**	**Client Sample #:**	16 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*100*		*70-145*					
4-Bromofluorobenzene (SUR)	*100*		*70-145*					
Dibromofluoromethane (SUR)	*106*		*70-145*					
Toluene-d8 (SUR)	*100*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:00 **Site:**
Sample #: 410059-017 **Client Sample #:** 17 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**1.69**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**53.7**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.51**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**11.5**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**4.73**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**10.1**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**7.37**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**10.0**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**18.2**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**50.3**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*134*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*61*		*50-150*					
Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:00	**Site:**			
Sample #:	**410059-017**	**Client Sample #:**	17 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:00	**Site:**			
Sample #:	**410059-017**	**Client Sample #:**	17 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*110*		*70-145*					
4-Bromofluorobenzene (SUR)	*107*		*70-145*					
Dibromofluoromethane (SUR)	*110*		*70-145*					
Toluene-d8 (SUR)	*100*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:05 **Site:**
Sample #: 410059-018 **Client Sample #:** 18 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**1.32**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**79.7**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**11.6**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**5.73**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**17.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**8.24**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**8.80**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**23.5**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**51.0**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*132*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*60*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:05	**Site:**			
Sample #:	**410059-018**	**Client Sample #:**	18 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:05	**Site:**			
Sample #:	**410059-018**	**Client Sample #:**	18 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*104*		*70-145*					
4-Bromofluorobenzene (SUR)	*102*		*70-145*					
Dibromofluoromethane (SUR)	*106*		*70-145*					
Toluene-d8 (SUR)	*98*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:10 **Site:**
Sample #: 410059-019 **Client Sample #:** 19 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**3.36**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**105**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**0.82**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**14.6**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**5.88**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**31.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**17.0**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**12.2**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**24.6**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**73.8**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*134*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*63*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:10	**Site:**			
Sample #:	**410059-019**	**Client Sample #:**	19 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:10	**Site:**			
Sample #:	**410059-019**	**Client Sample #:**	19 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*103*		*70-145*					
4-Bromofluorobenzene (SUR)	*108*		*70-145*					
Dibromofluoromethane (SUR)	*105*		*70-145*					
Toluene-d8 (SUR)	*101*		*70-145*					

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:15 **Site:**
Sample #: 410059-020 **Client Sample #:** 20 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199033		
Antimony	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Arsenic	**2.33**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Barium	**143**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Beryllium	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Cadmium	**2.24**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Chromium	**59.2**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Cobalt	**18.0**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Copper	**26.8**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Lead	**6.64**	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Molybdenum	ND	1	1	mg/Kg	12/18/18	12/18/18	KLN	
Nickel	**68.9**	1	1.5	mg/Kg	12/18/18	12/18/18	KLN	
Selenium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Silver	ND	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	L
Thallium	ND	1	3	mg/Kg	12/18/18	12/18/18	KLN	
Vanadium	**63.6**	1	0.5	mg/Kg	12/18/18	12/18/18	KLN	
Zinc	**51.6**	1	5	mg/Kg	12/18/18	12/18/18	KLN	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199032		
Mercury	ND	1	0.14	mg/Kg	12/18/18	12/18/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199031		
TPH (C13 to C28)	**14**	1	10	mg/Kg	12/17/18	12/18/18	SS	
TPH (C29 to C40)	**29**	1	20	mg/Kg	12/17/18	12/18/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/17/18	12/18/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*125*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199035		
PCB-1016	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1242	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/18/18	12/18/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*61*	*50-150*	

Method: EPA 8260B NELAC Prep Method: EPA 5030						QCBatchID: QC1199029		
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
1,1-Dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dibromoethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:15	**Site:**			
Sample #:	**410059-020**	**Client Sample #:**	20 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
1,2-Dichloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
1,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
1,3-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
2,2-Dichloropropane	ND	1	5	ug/Kg		12/18/18	LZ	
2-Butanone (MEK)	ND	1	100	ug/Kg		12/18/18	LZ	
2-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Chlorotoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Isopropyltoluene	ND	1	5	ug/Kg		12/18/18	LZ	
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/18/18	LZ	
Acetone	ND	1	100	ug/Kg		12/18/18	LZ	
Allyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Benzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Bromochloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromodichloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Bromoform	ND	1	5	ug/Kg		12/18/18	LZ	
Bromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Carbon Tetrachloride	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorobenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Chlorodibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroethane	ND	1	5	ug/Kg		12/18/18	LZ	
Chloroform	ND	1	5	ug/Kg		12/18/18	LZ	
Chloromethane	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Dibromomethane	ND	1	5	ug/Kg		12/18/18	LZ	
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Ethylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/18/18	LZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
m and p-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Methylene chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/18/18	LZ	
Naphthalene	ND	1	5	ug/Kg		12/18/18	LZ	
N-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
N-propylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
o-Xylene	ND	1	5	ug/Kg		12/18/18	LZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Styrene	ND	1	5	ug/Kg		12/18/18	LZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/18/18	LZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Toluene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/18/18	LZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichloroethene	ND	1	5	ug/Kg		12/18/18	LZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/18/18	LZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/18/18	LZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/18/18	LZ	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 16:15	**Site:**			
Sample #:	**410059-020**	**Client Sample #:**	20 - Football	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Surrogate	*% Recovery*		*Limits*	*Notes*				
1,2-Dichloroethane-d4 (SUR)	*101*		*70-145*					
4-Bromofluorobenzene (SUR)	*98*		*70-145*					
Dibromofluoromethane (SUR)	*103*		*70-145*					
Toluene-d8 (SUR)	*100*		*70-145*					

QCBatchID: QC1199029	Analyst: lucy	Method: EPA 8260B
Matrix: Solid	Analyzed: 12/17/2018	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199029MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,1-Trichloroethane	ND	ug/Kg		5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,2-Trichloroethane	ND	ug/Kg		5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5	
1,1-Dichloroethane	ND	ug/Kg		5	
1,1-Dichloroethene	ND	ug/Kg		5	
1,1-Dichloropropene	ND	ug/Kg		5	
1,2,3-Trichlorobenzene	ND	ug/Kg		5	
1,2,3-Trichloropropane	ND	ug/Kg		5	
1,2,4-Trichlorobenzene	ND	ug/Kg		5	
1,2,4-Trimethylbenzene	ND	ug/Kg		5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5	
1,2-Dibromoethane	ND	ug/Kg		5	
1,2-Dichlorobenzene	ND	ug/Kg		5	
1,2-Dichloroethane	ND	ug/Kg		5	
1,2-Dichloropropane	ND	ug/Kg		5	
1,3,5-Trimethylbenzene	ND	ug/Kg		5	
1,3-Dichlorobenzene	ND	ug/Kg		5	
1,3-Dichloropropane	ND	ug/Kg		5	
1,4-Dichlorobenzene	ND	ug/Kg		5	
2,2-Dichloropropane	ND	ug/Kg		5	
2-Butanone (MEK)	ND	ug/Kg		100	
2-Chlorotoluene	ND	ug/Kg		5	
4-Chlorotoluene	ND	ug/Kg		5	
4-Isopropyltoluene	ND	ug/Kg		5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5	
Acetone	ND	ug/Kg		100	
Allyl Chloride	ND	ug/Kg		5	
Benzene	ND	ug/Kg		5	
Bromobenzene	ND	ug/Kg		5	
Bromochloromethane	ND	ug/Kg		5	
Bromodichloromethane	ND	ug/Kg		5	
Bromoform	ND	ug/Kg		5	
Bromomethane	ND	ug/Kg		5	
Carbon Tetrachloride	ND	ug/Kg		5	
Chlorobenzene	ND	ug/Kg		5	
Chlorodibromomethane	ND	ug/Kg		5	
Chloroethane	ND	ug/Kg		5	
Chloroform	ND	ug/Kg		5	
Chloromethane	ND	ug/Kg		5	
cis-1,2-Dichloroethene	ND	ug/Kg		5	
cis-1,3-dichloropropene	ND	ug/Kg		5	
cis-1,4-dichloro-2-butene	ND	ug/Kg		5	
Dibromomethane	ND	ug/Kg		5	
Dichlorodifluoromethane	ND	ug/Kg		5	
Ethylbenzene	ND	ug/Kg		5	
Hexachlorobutadiene	ND	ug/Kg		5	
Isopropylbenzene	ND	ug/Kg		5	
m and p-Xylene	ND	ug/Kg		5	
Methylene chloride	ND	ug/Kg		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5	

QCBatchID: QC1199029 **Analyst:** lucy **Method:** EPA 8260B

Matrix: Solid **Analyzed:** 12/17/2018 **Instrument:** VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1199029MB1					
Naphthalene	ND	ug/Kg		5	
N-butylbenzene	ND	ug/Kg		5	
N-propylbenzene	ND	ug/Kg		5	
o-Xylene	ND	ug/Kg		5	
Sec-butylbenzene	ND	ug/Kg		5	
Styrene	ND	ug/Kg		5	
Tert-butylbenzene	ND	ug/Kg		5	
Tetrachloroethene	ND	ug/Kg		5	
Toluene	ND	ug/Kg		5	
trans-1,2-dichloroethene	ND	ug/Kg		5	
trans-1,3-dichloropropene	ND	ug/Kg		5	
trans-1,4-dichloro-2-butene	ND	ug/Kg		5	
Trichloroethene	ND	ug/Kg		5	
Trichlorofluoromethane	ND	ug/Kg		5	
Vinyl Chloride	ND	ug/Kg		5	
Xylenes (Total)	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199029LCS1											
1,1-Dichloroethene	50		62		ug/Kg	124			59-172		
Benzene	50		50		ug/Kg	100			62-137		
Chlorobenzene	50		52		ug/Kg	104			60-133		
Methyl-t-butyl Ether (MTBE)	50		44		ug/Kg	88			62-137		
Toluene	50		54		ug/Kg	108			59-139		
Trichloroethene	50		52		ug/Kg	104			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199029MS1, QC1199029MSD1												**Source: 410059-004**
1,1-Dichloroethene	ND	50	50	63	64	ug/Kg	126	128	1.6	59-172	22	
Benzene	ND	50	50	51	51	ug/Kg	102	102	0.0	62-137	24	
Chlorobenzene	ND	50	50	51	51	ug/Kg	102	102	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	54	49	ug/Kg	108	98	9.7	62-137	21	
Toluene	ND	50	50	53	53	ug/Kg	106	106	0.0	59-139	21	
Trichloroethene	ND	50	50	53	53	ug/Kg	106	106	0.0	66-142	21	

QCBatchID: QC1199031 **Analyst:** Jarriaga **Method:** EPA 8015M

Matrix: Solid **Analyzed:** 12/17/2018 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199031MB1					
TPH (C13 to C28)	ND	mg/Kg		10	
TPH (C29 to C40)	ND	mg/Kg		20	
TPH (C6 to C12)	ND	mg/Kg		10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199031LCS1											
TPH (C10 to C28)	250		280		mg/Kg	112			60-133		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199031MS1, QC1199031MSD1												**Source: 410059-001**
TPH (C10 to C28)	28	250	250	300	320	mg/Kg	109	117	6.5	70-130	20	

QCBatchID: QC1199032 **Analyst:** sbailey-woo **Method:** EPA 7471A

Matrix: Solid **Analyzed:** 12/18/2018 **Instrument:** AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1199032MB1						
Mercury	ND	mg/Kg		0.14		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199032LCS1											
Mercury	0.83		0.87		mg/Kg	105			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199032MS1, QC1199032MSD1												**Source: 410059-001**
Mercury	ND	0.83	0.83	0.84	0.90	mg/Kg	101	108	6.9	75-125	20	

QCBatchID: QC1199033 **Analyst:** dswafford **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/18/2018 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199033MB1					
Antimony	ND	mg/Kg		3	
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		1	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	ND	mg/Kg		3	
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		3	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199033LCS1											
Antimony	100		102		mg/Kg	102			80-120		
Arsenic	100		99.2		mg/Kg	99			80-120		
Barium	100		108		mg/Kg	108			80-120		
Beryllium	100		97.1		mg/Kg	97			80-120		
Cadmium	100		101		mg/Kg	101			80-120		
Chromium	100		95.7		mg/Kg	96			80-120		
Cobalt	100		104		mg/Kg	104			80-120		
Copper	100		99.9		mg/Kg	100			80-120		
Lead	100		110		mg/Kg	110			80-120		
Molybdenum	100		99.4		mg/Kg	99			80-120		
Nickel	100		109		mg/Kg	109			80-120		
Selenium	100		102		mg/Kg	102			80-120		
Silver	100		123		mg/Kg	123			80-120		L
Thallium	100		102		mg/Kg	102			80-120		
Vanadium	100		107		mg/Kg	107			80-120		
Zinc	100		108		mg/Kg	108			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199033MS1, QC1199033MSD1												**Source: 410059-001**
Antimony	2.44	100	100	30.6	29.3	mg/Kg	28	27	4.3	75-125	20	M
Arsenic	2.23	100	100	96.5	94.8	mg/Kg	94	93	1.8	75-125	20	
Barium	71.8	100	100	183	174	mg/Kg	111	102	5.0	75-125	20	
Beryllium	ND	100	100	94.2	93.1	mg/Kg	94	93	1.2	75-125	20	
Cadmium	1.99	100	100	99.1	88.6	mg/Kg	97	87	11.2	75-125	20	
Chromium	53.3	100	100	167	152	mg/Kg	114	99	9.4	75-125	20	
Cobalt	15.6	100	100	115	106	mg/Kg	99	90	8.1	75-125	20	
Copper	22.8	100	100	125	115	mg/Kg	102	92	8.3	75-125	20	
Lead	5.51	100	100	113	102	mg/Kg	107	96	10.2	75-125	20	
Molybdenum	2.73	100	100	84.4	83.5	mg/Kg	82	81	1.1	75-125	20	

QCBatchID: QC1199033 **Analyst:** dswafford **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/18/2018 **Instrument:** AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199033MS1, QC1199033MSD1												**Source: 410059-001**
Nickel	58.0	100	100	159	156	mg/Kg	101	98	1.9	75-125	20	
Selenium	ND	100	100	90.9	85.6	mg/Kg	91	86	6.0	75-125	20	
Silver	ND	100	100	116	109	mg/Kg	116	109	6.2	75-125	20	
Thallium	2.61	100	100	88.4	86.7	mg/Kg	86	84	1.9	75-125	20	
Vanadium	60.1	100	100	185	171	mg/Kg	125	111	7.9	75-125	20	
Zinc	50.2	100	100	147	144	mg/Kg	97	94	2.1	75-125	20	

QCBatchID: QC1199035 **Analyst:** Abanh **Method:** EPA 8082

Matrix: Solid **Analyzed:** 12/18/2018 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199035MB1					
PCB-1016	ND	ug/Kg		50	
PCB-1221	ND	ug/Kg		50	
PCB-1232	ND	ug/Kg		50	
PCB-1242	ND	ug/Kg		50	
PCB-1248	ND	ug/Kg		50	
PCB-1254	ND	ug/Kg		50	
PCB-1260	ND	ug/Kg		50	
PCB-1262	ND	ug/Kg		50	
PCB-1268	ND	ug/Kg		50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199035LCS1											
PCB-1016	500		370		ug/Kg	74			70-130		
PCB-1260	500		360		ug/Kg	72			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199035MS1, QC1199035MSD1												**Source: 410059-001**
PCB-1016	ND	500	500	550	620	ug/Kg	110	124	12.0	70-130	20	
PCB-1260	ND	500	500	450	420	ug/Kg	90	84	6.9	70-130	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.
931 W. Barkley Ave, Orange, CA 92868
Phone: (714) 771-6900 Fax: (714)771-9933
Billing: Enthalpy - Orange
c/o Montrose Environmental Group
P.O. Box 741137, Los Angeles, CA 90074-1137

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 410059

Page: 1 of 2

Turn Around Time (Rush by advanced notice only)

Standard:		4 Day:		3 Day:	
2 Day:		1 Day:		Same Day:	

Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	FACS	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	2959 E Pacific Commerce Dr,	Address:	30215 Morning View Dr,
	Compton, CA 90221		Malibu CA 90265
Phone:	(310) 668-5600	Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request	Test Instructions / Comments
1	01	12/15/18	01:00					
2	02	"	01:15					
3	03	"	01:25					
4	04	"	01:35					
5	05	"	01:45					
6	06	"	01:55					
7	07	"	02:10					
8	08	"	02:20					
9	09	"	02:30					
10	~~10~~	"	02:40					

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alissawi	Munzer Alissawi	FACS / Tech.	12/15/2018 - 6:45 PM
[1] Received By:		Leslie Hernandez	Enthalpy	12/15/18 1843
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868	Lab No: 410059	Standard:	4 Day:	3 Day:
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 2	2 Day:	1 Day:	Same Day:
Billing: Enthalpy - Orange	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other
c/o Montrose Environmental Group		
P.O. Box 741137, Los Angeles, CA 90074-1137		

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	FACS	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ 40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	2059 E Pacific Commerce Dr,	Address:	30215 Morning View Dr,
	Compton, CA 90221		
Phone:	(310) 668-5600	Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request	Test Instructions / Comments
1	11	12/15/18	03:00					
2	12		03:10					
3	13		03:20					
4	14		03:30					
5	15		03:40					
6	16		03:50					
7	17		04:00					
8	18		04:05					
9	19		04:10					
10	20		04:15					

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alkassas	Munzer Alkassas	FACS / Technician	12/15/18 - 6:43 pm
[1] Received By:		Leslie Hernandez	Enthalpy	12/15/18 1843
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Forensic Analytical Consulting Services Project: _____

Date Received: 12/15/18 Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 0.6 (13.2°C) #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.6°C #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	X		
Are sample IDs present?	X		
Are sampling dates & times present?	X	X (4)	
Is a relinquished signature present?	X	X (4)	
Are the tests required clearly indicated on the COC? *		X	
Are custody seals present?		X	
If custody seals are present, were they intact?			X
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	X		
Did all samples arrive intact? If no, indicate in Section 4 below.	X		
Did all bottle labels agree with COC? (ID, dates and times)			X
Were the samples collected in the correct containers for the required tests?	X		
Are the containers labeled with the correct preservatives?			X
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			X
Was a sufficient amount of sample submitted for the requested tests?	X		

Section 5 Explanations/Comments

* TESTS WERE PROVIDED BY CLIENT VIA EMAIL 12/17/18 (RP)

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/15/18

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)					
921 W. Barkley Ave, Orange, CA 92868	Lab No:	Standard:		4 Day:		3 Day:	
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 1 of 2	2 Day:		1 Day:		Same Day:	X
Billing: Enthalpy - Orange	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other					
c/o Montrose Environmental Group							
P.O. Box 741137, Los Angeles, CA 90074-1137							

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	FACS	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	2141 E Rosecrans Commerce Dr.	Address:	30215 Morning View Dr.
	Compton, CA 90221		Malibu CA 90265
Phone:	(310) 668-5600	Global ID:	
Fax:		Sampled By:	Munzer

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: HOLD	METALS (EPA) METHOD 6020	VOCs (EPA METHOD 8260B)	PCBs (EPA METHOD 8270C)	TPH (EPA METHOD 8015M)	Test Instructions / Comments
1	01 - Soccer 1	12/15/18	01:00	S	1/16 oz	–		X	X	X	X	
2	02 - Soccer 1		01:15	S	2/	–		X	X	X	X	
3	03 - Soccer 1		01:25	S	3/	–		X	X	X	X	
4	04 - Baseball 2		01:35	S	4/	–		X	X	X	X	
5	05 - Baseball 2		01:45	S	5/	–		X	X	X	X	
6	06 - Baseball 2		01:55	S	6/	–		X	X	X	X	
7	07 - Soccer 2		02.10	S	7/	–		X	X	X	X	
8	08 - Soccer 2		02:20	S	8/	–		X	X	X	X	
9	09 - Baseball 1		02:30	S	9/	–		X	X	X	X	
10	10 - Baseball 1	⊥	02.40	S	10/ V	–		X	X	X	X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Munzer Alissassi	FACS / Tech.	12/15/2018 - 8:48 Am
[1] Received By:		Leslie Herrando	Enthalpy	12/15/18 1543
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868	Lab No:	Standard: ___ 4 Day: ___ 3 Day: ___
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 2	2 Day: ___ 1 Day: ___ Same Day: X
Billing: Enthalpy - Orange	Matrix: A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other
c/o Montrose Environmental Group		
P.O. Box 741137, Los Angeles, CA 90074-1137		

ENTHALPY ANALYTICAL

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	FACS	Name:	Malibu HS - Soil Sampling
Report To:	Dave Peterson	Number:	PS 402417
Email:	dpeterson@forensicanalytical.com	P.O. #:	
Address:	24501 E Pacific Coast Hwy	Address:	30215 Morning View Dr
	Corona, CA 90221		
Phone:	(310) 668-5600	Global ID:	
Fax:		Sampled By:	Munzer

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	HOLD	Metals (EPA) Method 6020	VOCs (EPA) Method 8260B	PCBs (EPA) Method 8270	TPH (EPA) Method 8015M	Analysis Request	Test Instructions / Comments
1	11 - Baseball 2	12/15/18	03:00	S	11 / 16oz	—		X	X	X	X		
2	12 - Baseball 2		03:10		12 /	—		X	X	X	X		
3	13 - Soccer 1		03:20		13 /	—		X	X	X	X		
4	14 - BASKET BALL		03:30		14 /	—		X	X	X	X		
5	15 - Football		03:40		15 /	—		X	X	X	X		
6	16 -		03:50		16 /	—		X	X	X	X		
7	17 -		04:00		17 /	—		X	X	X	X		
8	18 -		04:05		18 /	—		X	X	X	X		
9	19 -		04:10		19 /	—		X	X	X	X		
10	20 -		04:15		20 / L	—		X	X	X	X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alkassas	Munzer Alkassas	FACS / Technician	12/15/18 - 6:43 pm
[1] Received By:		Leslie Hernandez	Enthalpy	12/15/18 1843
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Forensic Analytical Consulting Services
Address: 2959 E Pacific Commerce Dr
Rancho Dominguez, CA 90221

Attn: Pearl Pereira

Comments: Malibu HS - Soil Sampling
#PJ40247

Supplemental Report

Lab Request: 410059
Report Date: 12/20/2018
Date Received: 12/15/2018
Client ID: 15899

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
410059-001	01 - Soccer 1
410059-002	02 - Soccer 1
410059-003	03 - Soccer 1
410059-004	04 - Baseball 2
410059-005	05 - Baseball 2
410059-006	06 - Baseball 2
410059-007	07 - Soccer 2
410059-008	08 - Soccer 2
410059-009	09 - Baseball 1
410059-010	10 - Baseball 1
410059-011	11 - Baseball 2
410059-012	12 - Baseball 2
410059-013	13 - Soccer 1
410059-014	14 - Basketball
410059-015	15 - Football
410059-016	16 - Football
410059-017	17 - Football
410059-018	18 - Football
410059-019	19 - Football
410059-020	20 - Football

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:00 **Site:**
Sample #: **410059-001** **Client Sample #:** 01 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*71*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*66*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199147		
pH	**7.69**	1		pH Units		12/19/18 00:00	WW	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:15	**Site:**			
Sample #:	**410059-002**	**Client Sample #:**	02 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*71*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*69*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199147	
pH	**7.69**	1		pH Units	12/19/18 00:00	WW	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:25	**Site:**			
Sample #:	**410059-003**	**Client Sample #:**	03 - Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*83*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*66*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199147	
pH	**7.76**	1		pH Units	12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:35 **Site:**
Sample #: **410059-004** **Client Sample #:** 04 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*67*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*71*	*50-150*	

Method: EPA 9045C NELAC Prep Method: Method						QCBatchID: QC1199147		
pH	**7.81**	1		pH Units		12/19/18 00:00	WW	

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 13:45	**Site:**			
Sample #:	**410059-005**	**Client Sample #:**	05 - Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*58*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*72*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199147	
pH	**7.57**	1		pH Units		12/19/18 00:00	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:55 **Site:**
Sample #: **410059-006** **Client Sample #:** 06 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*50*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*72*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199147		
pH	**7.39**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:10 **Site:**
Sample #: **410059-007** **Client Sample #:** 07 - Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*49*	*50-150*	*S*
Tetrachloro-m-xylene TCMX (SUR)	*73*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199147	
pH	**7.39**	1		pH Units		12/19/18 00:00	WW

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:20	**Site:**			
Sample #:	**410059-008**	**Client Sample #:**	08 - Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*	
Decachlorobiphenyl DCB (SUR)	*45*	*50-150*	*S*	*low due to interf.*
Tetrachloro-m-xylene TCMX (SUR)	*74*	*50-150*		

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180	
pH	**7.27**	1		pH Units		12/19/18 00:00	WW

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/15/2018 14:30	**Site:**			
Sample #:	**410059-009**	**Client Sample #:**	09 - Baseball 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*50*	*50-150*	*S*
Tetrachloro-m-xylene TCMX (SUR)	*84*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180	
pH	**7.36**	1		pH Units	12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:40 **Site:**
Sample #: **410059-010** **Client Sample #:** 10 - Baseball 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*53*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*82*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180		
pH	**6.84**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:00 **Site:**
Sample #: **410059-011** **Client Sample #:** 11 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*52*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*77*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180		
pH	**7.34**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:10 **Site:**
Sample #: **410059-012** **Client Sample #:** 12 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*48*	*50-150*	*S*
Tetrachloro-m-xylene TCMX (SUR)	*74*	*50-150*	

Method: EPA 9045C NELAC Prep Method: Method						QCBatchID: QC1199180		
pH	**7.56**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:20 **Site:**
Sample #: **410059-013** **Client Sample #:** 13 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*40*	*50-150*	*S*
Tetrachloro-m-xylene TCMX (SUR)	*80*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180		
pH	**7.40**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:30 **Site:**
Sample #: **410059-014** **Client Sample #:** 14 - Basketball **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*50*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*71*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180		
pH	**8.25**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:40 **Site:**
Sample #: **410059-015** **Client Sample #:** 15 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*38*	*50-150*	*S*
Tetrachloro-m-xylene TCMX (SUR)	*63*	*50-150*	

Method: EPA 9045C NELAC Prep Method: Method						QCBatchID: QC1199180		
pH	**8.25**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:50 **Site:**
Sample #: **410059-016** **Client Sample #:** 16 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*61*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*71*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180		
pH	**8.00**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:00 **Site:**
Sample #: **410059-017** **Client Sample #:** 17 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*69*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*74*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199180		
pH	**6.97**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:05 **Site:**
Sample #: **410059-018** **Client Sample #:** 18 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	**7.0**	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*67*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*64*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199181		
pH	**7.30**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:10 **Site:**
Sample #: **410059-019** **Client Sample #:** 19 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*65*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*68*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199181		
pH	**7.15**	1		pH Units		12/19/18 00:00	WW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:15 **Site:**
Sample #: **410059-020** **Client Sample #:** 20 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 8081A *NELAC* Prep Method: EPA 3545						QCBatchID: QC1199179		
4,4'-DDD	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
a-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Aldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
b-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/19/18	12/20/18	TD	
d-BHC	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/19/18	12/20/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/19/18	12/20/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/19/18	12/20/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*112*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*87*	*50-150*	

Method: EPA 9045C *NELAC* Prep Method: Method						QCBatchID: QC1199181		
pH	**8.11**	1		pH Units		12/19/18 00:00	WW	

QCBatchID:	**QC1199147**	**Analyst:**	wei	**Method:**	EPA 9045C
Matrix:	Solid	**Analyzed:**	12/19/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199147DUP1						**Source: 409826-001**
pH	6.64	6.69	pH Units	0.8	20	
Temperature (°C)	20.5	20.6	°C	0.5	20	

QCBatchID: QC1199179 **Analyst:** tdang **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 12/19/2018 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199179MB1					
4,4'-DDD	ND	ug/Kg		5	
4,4'-DDE	ND	ug/Kg		5	
4,4'-DDT	ND	ug/Kg		5	
a-BHC	ND	ug/Kg		5	
Aldrin	ND	ug/Kg		5	
b-BHC	ND	ug/Kg		5	
Chlordane (technical)	ND	ug/Kg		50	
d-BHC	ND	ug/Kg		5	
Dieldrin	ND	ug/Kg		5	
Endosulfan I	ND	ug/Kg		5	
Endosulfan II	ND	ug/Kg		5	
Endosulfan sulfate	ND	ug/Kg		5	
Endrin	ND	ug/Kg		5	
Endrin aldehyde	ND	ug/Kg		5	
Endrin Ketone	ND	ug/Kg		5	
Heptachlor	ND	ug/Kg		5	
Heptachlor epoxide	ND	ug/Kg		5	
Lindane (Gamma-BHC)	ND	ug/Kg		5	
Methoxychlor	ND	ug/Kg		10	
Toxaphene	ND	ug/Kg		100	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199179LCS1											
4,4'-DDD	50		28		ug/Kg	56			43-172		
4,4'-DDE	50		28		ug/Kg	56			44-163		
4,4'-DDT	50		32		ug/Kg	64			40-158		
a-BHC	50		25		ug/Kg	50			45-150		
Aldrin	50		27		ug/Kg	54			46-142		
b-BHC	50		29		ug/Kg	58			42-156		
d-BHC	50		26		ug/Kg	52			37-161		
Dieldrin	50		29		ug/Kg	58			47-151		
Endosulfan I	50		27		ug/Kg	54			47-141		
Endosulfan II	50		28		ug/Kg	56			44-156		
Endosulfan sulfate	50		31		ug/Kg	62			43-157		
Endrin	50		32		ug/Kg	64			47-160		
Endrin aldehyde	50		17		ug/Kg	34			32-127		
Endrin Ketone	50		28		ug/Kg	56			48-159		
Heptachlor	50		28		ug/Kg	56			50-144		
Heptachlor epoxide	50		27		ug/Kg	54			48-145		
Lindane (Gamma-BHC)	50		26		ug/Kg	52			47-151		
Methoxychlor	50		46		ug/Kg	92			36-182		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199179MS1, QC1199179MSD1												**Source: 410059-001**
4,4'-DDD	ND	50	50	38	42	ug/Kg	76	84	10.0	43-172	20	
4,4'-DDE	ND	50	50	42	40	ug/Kg	84	80	4.9	44-163	20	
4,4'-DDT	ND	50	50	44	39	ug/Kg	88	78	12.0	40-158	20	
a-BHC	ND	50	50	39	40	ug/Kg	78	80	2.5	45-150	20	

QCBatchID: QC1199179 **Analyst:** tdang **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 12/19/2018 **Instrument:** SVOA-GC (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199179MS1, QC1199179MSD1												**Source: 410059-001**
Aldrin	ND	50	50	38	39	ug/Kg	76	78	2.6	46-142	20	
b-BHC	ND	50	50	40	44	ug/Kg	80	88	9.5	42-156	20	
d-BHC	ND	50	50	52	51	ug/Kg	104	102	1.9	37-161	20	
Dieldrin	ND	50	50	44	43	ug/Kg	88	86	2.3	47-151	20	
Endosulfan I	ND	50	50	44	40	ug/Kg	88	80	9.5	47-141	20	
Endosulfan II	ND	50	50	39	39	ug/Kg	78	78	0.0	44-156	20	
Endosulfan sulfate	ND	50	50	43	42	ug/Kg	86	84	2.4	43-157	20	
Endrin	ND	50	50	53	52	ug/Kg	106	104	1.9	47-160	20	
Endrin aldehyde	ND	50	50	32	32	ug/Kg	64	64	0.0	32-127	20	
Endrin Ketone	ND	50	50	39	43	ug/Kg	78	86	9.8	48-159	20	
Heptachlor	ND	50	50	57	52	ug/Kg	114	104	9.2	50-144	20	
Heptachlor epoxide	ND	50	50	40	41	ug/Kg	80	82	2.5	48-145	20	
Lindane (Gamma-BHC)	ND	50	50	42	44	ug/Kg	84	88	4.7	47-151	20	
Methoxychlor	ND	50	50	66	61	ug/Kg	132	122	7.9	36-182	20	

QCBatchID:	**QC1199180**	**Analyst:**	wei	**Method:**	EPA 9045C
Matrix:	Solid	**Analyzed:**	12/19/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199180DUP1						**Source: 410059-008**
pH	7.27	7.30	pH Units	0.4	20	

QCBatchID:	**QC1199181**	**Analyst:**	wei	**Method:**	EPA 9045C
Matrix:	Solid	**Analyzed:**	12/19/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199181DUP1						**Source: 410059-020**
pH	8.11	8.10	pH Units	0.1	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

From:	Pearl Pereira
To:	Diane Galvan
Cc:	Munzer Alkassas; Daniel Chavez
Subject:	Re: Dan Chavez Contact Info
Date:	Wednesday, December 19, 2018 2:20:56 PM
Attachments:	image001.png

Yes, this is for the Malibu project and not the San Diego project.
Thanking you,

Pearl J. Pereira, P.G., C.H.G.
Director, Southern California
Forensic Analytical Consulting Services, Inc.
2959 Pacific Commerce Drive
Rancho Dominguez, CA 90221
O: 310-668-5600 | D: 310-668-5637 | C: 714-594-9350
ppereira@forensicanalytical.com | www.forensicanalytical.com | bio

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On Wed, Dec 19, 2018 at 1:43 PM Diane Galvan <diane.galvan@enthalpy.com> wrote:

> Hi Pearl,
>
> Dan mentioned you'll need pH in addition to Pesticides, correct?
>
> Thanks,

ENTHALPY ANALYTICAL

Diane Galvan

Senior Project Manager

West Coast

D: 714-771-9928

"In observance of Christmas and New Year, Enthalpy Analytical will be closed on December 24th – 25th and January 1st. For special projects or short hold analyses, please coordinate with your project manager in advance."

From: Pearl Pereira <ppereira@forensicanalytical.com>
Sent: Wednesday, December 19, 2018 9:47 AM
To: Daniel Chavez <daniel.chavez@enthalpy.com>
Cc: Munzer Alkassas <munzer.alkassas@forensicanalytical.com>; Diane Galvan <diane.galvan@enthalpy.com>
Subject: Re: Dan Chavez Contact Info

Yes, please!

Thanking you,

Pearl J. Pereira, P.G., C.H.G.

Director, Southern California

Forensic Analytical Consulting Services, Inc.

2959 Pacific Commerce Drive

Rancho Dominguez, CA 90221

O: 310-668-5600 | D: 310-668-5637 | C: 714-594-9350

ppereira@forensicanalytical.com | www.forensicanalytical.com | bio

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On Wed, Dec 19, 2018 at 9:45 AM Daniel Chavez <daniel.chavez@enthalpy.com> wrote:

> Pearl,
>
> Yes, I confirmed we do have enough for Pesticides. Would you like us to analyze the samples for that?
>
> **Dan Chavez**

Business Development Manager

"In observance of Thanksgiving, Christmas and New Year, Enthalpy Analytical will be closed on November 22nd - 23rd, December 24th – 25th and January 1st. For special projects or short hold analyses, please coordinate with your project manager in advance."

931 W. Barkley Ave.

Orange, CA 92868

Cell: (562) 900-7466

Office: (714) 656-0148

daniel.chavez@enthalpy.com

On Wed, Dec 19, 2018 at 9:14 AM Pearl Pereira <ppereira@forensicanalytical.com> wrote:

> Dan,
>
> Do you have enough samples to run pesticides as well?
>
> Thanking you,

Pearl J. Pereira, P.G., C.H.G.

Director, Southern California

Forensic Analytical Consulting Services, Inc.

2959 Pacific Commerce Drive

Rancho Dominguez, CA 90221

O: 310-668-5600 | D: 310-668-5637 | C: 714-594-9350

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www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Forensic Analytical Consulting Services
Address: 2959 E Pacific Commerce Dr
Rancho Dominguez, CA 90221

Attn: Pearl Pereira

Comments: Malibu HS- Soil Sampling
#PJ40247

Grain Size will follow in a separate report.

Lab Request: 410304
Report Date: 12/27/2018
Date Received: 12/21/2018
Client ID: 15899

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
410304-001	01- Behind tennis court
410304-002	02- Behind tennis court
410304-003	03- Behind tennis court
410304-004	04- Behind tennis court
410304-005	05- Soccer 2
410304-006	06- Soccer 2
410304-007	07- Soccer 2
410304-008	08- Soccer 2
410304-009	09- Baseball 2
410304-010	10- Baseball 1
410304-011	11- Baseball 2
410304-012	12- Baseball 2
410304-013	13- Soccer 1
410304-014	14- Soccer 1
410304-015	15- Soccer 1

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:23 **Site:**
Sample #: 410304-001 **Client Sample #:** 01- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**17.7**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**140**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**1.67**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**36.5**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**9.81**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**20.4**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**8.30**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**30.6**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**39.9**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**49.5**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*100*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*73*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*93*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:23 **Site:**
Sample #: **410304-001** **Client Sample #:** 01- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*59*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	**260**	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 10:23	**Site:**			
Sample #:	**410304-001**	**Client Sample #:**	01- Behind tennis court	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*100*	*70-145*	
4-Bromofluorobenzene (SUR)	*111*	*70-145*	
Dibromofluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**8.14**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.2**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**390**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:34 **Site:**
Sample #: 410304-002 **Client Sample #:** 02- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**9.13**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**89.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.21**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**76.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**18.2**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**25.8**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**6.12**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	**1.85**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**66.5**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	**6.99**	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**66.4**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**58.3**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	**20**	2	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	**41**	2	40	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	2	20	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*		*Notes*			
Triacontane (SUR)	*92*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*		*Notes*			
Decachlorobiphenyl DCB (SUR)	*63*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*71*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:34 **Site:**
Sample #: 410304-002 **Client Sample #:** 02- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*53*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 10:34	**Site:**			
Sample #:	**410304-002**	**Client Sample #:**	02- Behind tennis court	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*101*	*70-145*	
4-Bromofluorobenzene (SUR)	*110*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.62**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.0**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**278**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:48 **Site:**
Sample #: 410304-003 **Client Sample #:** 03- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**2.67**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**138**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.86**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**62.2**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**15.5**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**26.5**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**11.1**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	**1.81**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**64.0**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**79.8**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**65.4**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*100*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*63*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*72*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:48 **Site:**
Sample #: **410304-003** **Client Sample #:** 03- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*57*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 10:48	**Site:**			
Sample #:	**410304-003**	**Client Sample #:**	03- Behind tennis court	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*103*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 9045c *NELAC*	Prep Method: Method				QCBatchID: QC1199372	
pH	**7.64**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.1**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B	Prep Method: Method				QCBatchID: QC1199370	
Specific Conductance	**888**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:00 **Site:**
Sample #: 410304-004 **Client Sample #:** 04- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	**3.79**	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**2.43**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**61.7**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**1.99**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**58.4**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**16.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**20.3**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**4.48**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**61.5**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**68.2**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**51.7**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*106*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*60*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*71*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:00 **Site:**
Sample #: 410304-004 **Client Sample #:** 04- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*64*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 11:00	**Site:**			
Sample #:	**410304-004**	**Client Sample #:**	04- Behind tennis court	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*100*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromofluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.88**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.4**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**167**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:13 **Site:**
Sample #: 410304-005 **Client Sample #:** 05- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**99.7**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.20**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**62.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**18.0**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**22.4**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**8.30**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**67.0**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**69.3**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**71.7**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*101*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	**9.9**	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*61*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*81*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:13 **Site:**
Sample #: **410304-005** **Client Sample #:** 05- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*53*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 11:13	**Site:**			
Sample #:	**410304-005**	**Client Sample #:**	05- Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*107*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.40**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.2**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**262**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:33 **Site:**
Sample #: 410304-006 **Client Sample #:** 06- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**2.84**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**101**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.42**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**70.2**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**20.8**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**27.2**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**15.7**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**72.7**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**72.6**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**58.8**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*105*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	**5.3**	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*65*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*84*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:33 **Site:**
Sample #: **410304-006** **Client Sample #:** 06- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*53*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 11:33	**Site:**			
Sample #:	**410304-006**	**Client Sample #:**	06- Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*107*	*70-145*	
4-Bromofluorobenzene (SUR)	*114*	*70-145*	
Dibromofluoromethane (SUR)	*104*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.49**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.3**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**267**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:45 **Site:**
Sample #: 410304-007 **Client Sample #:** 07- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**1.76**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**70.7**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.14**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**57.3**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**15.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**23.4**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**7.32**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**58.0**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**63.1**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**55.4**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*110*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*50*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*106*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:45 **Site:**
Sample #: 410304-007 **Client Sample #:** 07- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*81*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 11:45	**Site:**			
Sample #:	**410304-007**	**Client Sample #:**	07- Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*104*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.51**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.2**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**411**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:10 **Site:**
Sample #: 410304-008 **Client Sample #:** 08- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**64.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**1.98**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**80.0**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**25.4**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**32.7**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**7.58**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**84.4**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**75.3**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**59.3**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*105*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*60*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*73*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:10 **Site:**
Sample #: **410304-008** **Client Sample #:** 08- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*80*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 12:10	**Site:**			
Sample #:	**410304-008**	**Client Sample #:**	08- Soccer 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*108*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.61**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.3**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**316**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:29 **Site:**
Sample #: 410304-009 **Client Sample #:** 09- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**73.0**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.19**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**66.1**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**17.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**22.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**8.07**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	**4.15**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**62.0**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**69.9**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**60.9**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*108*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*58*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*75*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:29 **Site:**
Sample #: 410304-009 **Client Sample #:** 09- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*75*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 12:29	**Site:**			
Sample #:	**410304-009**	**Client Sample #:**	09- Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*103*	*70-145*	
4-Bromofluorobenzene (SUR)	*110*	*70-145*	
Dibromofluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.61**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.2**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**409**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:43 **Site:**
Sample #: 410304-010 **Client Sample #:** 10- Baseball 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	**3.58**	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**2.67**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**81.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.26**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**61.1**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**16.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**22.4**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**5.92**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**57.5**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**64.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**49.9**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*96*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*56*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*71*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:43 **Site:**
Sample #: **410304-010** **Client Sample #:** 10- Baseball 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*59*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 12:43	**Site:**			
Sample #:	**410304-010**	**Client Sample #:**	10- Baseball 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*104*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199372

pH	**7.48**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.1**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199370

Specific Conductance	**511**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:02 **Site:**
Sample #: 410304-011 **Client Sample #:** 11- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**1.17**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**81.8**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.22**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**62.3**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**19.8**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**22.9**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**6.02**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	**1.70**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**68.6**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**67.6**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**51.6**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*108*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*53*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*72*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:02 **Site:**
Sample #: **410304-011** **Client Sample #:** 11- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*87*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 13:02	**Site:**			
Sample #:	**410304-011**	**Client Sample #:**	11- Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*101*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*95*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199373

pH	**7.49**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.0**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199371

Specific Conductance	**742**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:14 **Site:**
Sample #: 410304-012 **Client Sample #:** 12- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**5.04**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**101**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**1.33**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**33.6**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**10.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**14.8**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**6.38**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**34.5**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**45.3**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**48.8**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*		*Notes*			
Triacontane (SUR)	*105*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*		*Notes*			
Decachlorobiphenyl DCB (SUR)	*64*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*82*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:14 **Site:**
Sample #: **410304-012** **Client Sample #:** 12- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*50*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 13:14	**Site:**			
Sample #:	**410304-012**	**Client Sample #:**	12- Baseball 2	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*105*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

Method: EPA 9045c *NELAC*	Prep Method: Method					QCBatchID: QC1199373	
pH	**7.82**	1		pH Units		12/26/18 00:00	WW
Temperature (°C)	**23.2**	1		°C		12/26/18 00:00	WW
Method: SM 2510-B	Prep Method: Method					QCBatchID: QC1199371	
Specific Conductance	**256**	1	1	umhos/cm		12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:29 **Site:**
Sample #: 410304-013 **Client Sample #:** 13- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**3.06**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**74.4**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.16**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**54.2**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**21.8**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**20.9**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**3.55**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	**1.15**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**62.7**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**59.2**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**42.3**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	

Surrogate	*% Recovery*	*Limits*	*Notes*
Triacontane (SUR)	*106*	*50-150*	

Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*60*	*50-150*	
Tetrachloro-m-xylene TCMX (SUR)	*76*	*50-150*	

Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:29 **Site:**
Sample #: **410304-013** **Client Sample #:** 13- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*75*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 13:29	**Site:**			
Sample #:	**410304-013**	**Client Sample #:**	13- Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*105*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromofluoromethane (SUR)	*101*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 9045c *NELAC*	Prep Method: Method				QCBatchID: QC1199373	
pH	**7.90**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.1**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B	Prep Method: Method				QCBatchID: QC1199371	
Specific Conductance	**290**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:45 **Site:**
Sample #: 410304-014 **Client Sample #:** 14- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199360		
Antimony	**4.36**	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**1.46**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**81.8**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.09**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**58.5**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**17.7**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**18.0**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	**5.69**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**57.2**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**64.0**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**36.8**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199369		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*107*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*64*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*82*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:45 **Site:**
Sample #: **410304-014** **Client Sample #:** 14- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*52*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 13:45	**Site:**			
Sample #:	**410304-014**	**Client Sample #:**	14- Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*107*	*70-145*	
4-Bromofluorobenzene (SUR)	*106*	*70-145*	
Dibromofluoromethane (SUR)	*103*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 9045c *NELAC*	Prep Method: Method				QCBatchID: QC1199373	
pH	**7.94**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.0**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B	Prep Method: Method				QCBatchID: QC1199371	
Specific Conductance	**347**	1	1	umhos/cm	12/26/18	WW

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:57 **Site:**
Sample #: 410304-015 **Client Sample #:** 15- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B NELAC Prep Method: EPA 3050B						QCBatchID: QC1199361		
Antimony	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Arsenic	**2.62**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Barium	**78.8**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Beryllium	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Cadmium	**2.08**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Chromium	**45.3**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Cobalt	**12.9**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Copper	**16.8**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Lead	ND	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Molybdenum	**2.72**	1	1	mg/Kg	12/26/18	12/27/18	SBW	
Nickel	**51.8**	1	1.5	mg/Kg	12/26/18	12/27/18	SBW	
Selenium	ND	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Silver	ND	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Thallium	**3.98**	1	3	mg/Kg	12/26/18	12/27/18	SBW	
Vanadium	**54.4**	1	0.5	mg/Kg	12/26/18	12/27/18	SBW	
Zinc	**41.8**	1	5	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 7471A NELAC Prep Method: EPA 7471A						QCBatchID: QC1199374		
Mercury	ND	1	0.14	mg/Kg	12/26/18	12/27/18	SBW	
Method: EPA 8015M Prep Method: EPA 3580A						QCBatchID: QC1199359		
TPH (C13 to C28)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
TPH (C29 to C40)	ND	1	20	mg/Kg	12/26/18	12/26/18	SS	
TPH (C6 to C12)	ND	1	10	mg/Kg	12/26/18	12/26/18	SS	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Triacontane (SUR)	*110*		*50-150*					
Method: EPA 8081A NELAC Prep Method: EPA 3545						QCBatchID: QC1199403		
4,4'-DDD	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDE	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
4,4'-DDT	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
a-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Aldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
b-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Chlordane (technical)	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
d-BHC	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Dieldrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan I	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan II	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endosulfan sulfate	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin aldehyde	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Endrin Ketone	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Heptachlor epoxide	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Lindane (Gamma-BHC)	ND	1	5	ug/Kg	12/26/18	12/26/18	TD	
Methoxychlor	ND	1	10	ug/Kg	12/26/18	12/26/18	TD	
Toxaphene	ND	1	100	ug/Kg	12/26/18	12/26/18	TD	
Surrogate	*% Recovery*		*Limits*	*Notes*				
Decachlorobiphenyl DCB (SUR)	*62*		*50-150*					
Tetrachloro-m-xylene TCMX (SUR)	*81*		*50-150*					
Method: EPA 8082 NELAC Prep Method: EPA 3545						QCBatchID: QC1199404		
PCB-1016	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1221	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1232	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:57 **Site:**
Sample #: **410304-015** **Client Sample #:** 15- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
PCB-1242	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1248	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1254	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1260	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1262	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	
PCB-1268	ND	1	50	ug/Kg	12/26/18	12/26/18	TD	

Surrogate	*% Recovery*	*Limits*	*Notes*
Decachlorobiphenyl DCB (SUR)	*50*	*50-150*	

Method: EPA 8260B *NELAC* Prep Method: EPA 5030 QCBatchID: QC1199351

1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,1-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
1,1-Dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,3-Trichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dibromoethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
1,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
1,3-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
1,4-Dichlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
2,2-Dichloropropane	ND	1	5	ug/Kg		12/26/18	ZZ
2-Butanone (MEK)	ND	1	100	ug/Kg		12/26/18	ZZ
2-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Chlorotoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Isopropyltoluene	ND	1	5	ug/Kg		12/26/18	ZZ
4-Methyl-2-pentanone (MIBK)	ND	1	5	ug/Kg		12/26/18	ZZ
Acetone	ND	1	100	ug/Kg		12/26/18	ZZ
Allyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ
Benzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Bromochloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromodichloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
Bromoform	ND	1	5	ug/Kg		12/26/18	ZZ
Bromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Carbon Tetrachloride	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorobenzene	ND	1	5	ug/Kg		12/26/18	ZZ
Chlorodibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroethane	ND	1	5	ug/Kg		12/26/18	ZZ
Chloroform	ND	1	5	ug/Kg		12/26/18	ZZ
Chloromethane	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,2-Dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ
cis-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ
Dibromomethane	ND	1	5	ug/Kg		12/26/18	ZZ

Matrix:	Solid	**Client:**	Forensic Analytical Consulting Services	**Collector:**	Client
Sampled:	12/21/2018 13:57	**Site:**			
Sample #:	**410304-015**	**Client Sample #:**	15- Soccer 1	**Sample Type:**	

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Dichlorodifluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Ethylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Hexachlorobutadiene	ND	1	5	ug/Kg		12/26/18	ZZ	
Isopropylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
m and p-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Methylene chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Methyl-t-butyl Ether (MTBE)	ND	1	5	ug/Kg		12/26/18	ZZ	
Naphthalene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
N-propylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
o-Xylene	ND	1	5	ug/Kg		12/26/18	ZZ	
Sec-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Styrene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tert-butylbenzene	ND	1	5	ug/Kg		12/26/18	ZZ	
Tetrachloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Toluene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,2-dichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,3-dichloropropene	ND	1	5	ug/Kg		12/26/18	ZZ	
trans-1,4-dichloro-2-butene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichloroethene	ND	1	5	ug/Kg		12/26/18	ZZ	
Trichlorofluoromethane	ND	1	5	ug/Kg		12/26/18	ZZ	
Vinyl Chloride	ND	1	5	ug/Kg		12/26/18	ZZ	
Xylenes (Total)	ND	1	5	ug/Kg		12/26/18	ZZ	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*106*	*70-145*	
4-Bromofluorobenzene (SUR)	*110*	*70-145*	
Dibromofluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*96*	*70-145*	

Method: EPA 9045c *NELAC* Prep Method: Method QCBatchID: QC1199373

pH	**7.73**	1		pH Units	12/26/18 00:00	WW
Temperature (°C)	**23.1**	1		°C	12/26/18 00:00	WW

Method: SM 2510-B Prep Method: Method QCBatchID: QC1199371

Specific Conductance	**398**	1	1	umhos/cm	12/26/18	WW

QCBatchID: QC1199351	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 12/26/2018	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199351MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,1-Trichloroethane	ND	ug/Kg		5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg		5	
1,1,2-Trichloroethane	ND	ug/Kg		5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg		5	
1,1-Dichloroethane	ND	ug/Kg		5	
1,1-Dichloroethene	ND	ug/Kg		5	
1,1-Dichloropropene	ND	ug/Kg		5	
1,2,3-Trichlorobenzene	ND	ug/Kg		5	
1,2,3-Trichloropropane	ND	ug/Kg		5	
1,2,4-Trichlorobenzene	ND	ug/Kg		5	
1,2,4-Trimethylbenzene	ND	ug/Kg		5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg		5	
1,2-Dibromoethane	ND	ug/Kg		5	
1,2-Dichlorobenzene	ND	ug/Kg		5	
1,2-Dichloroethane	ND	ug/Kg		5	
1,2-Dichloropropane	ND	ug/Kg		5	
1,3,5-Trimethylbenzene	ND	ug/Kg		5	
1,3-Dichlorobenzene	ND	ug/Kg		5	
1,3-Dichloropropane	ND	ug/Kg		5	
1,4-Dichlorobenzene	ND	ug/Kg		5	
2,2-Dichloropropane	ND	ug/Kg		5	
2-Butanone (MEK)	ND	ug/Kg		100	
2-Chlorotoluene	ND	ug/Kg		5	
4-Chlorotoluene	ND	ug/Kg		5	
4-Isopropyltoluene	ND	ug/Kg		5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg		5	
Acetone	ND	ug/Kg		100	
Allyl Chloride	ND	ug/Kg		5	
Benzene	ND	ug/Kg		5	
Bromobenzene	ND	ug/Kg		5	
Bromochloromethane	ND	ug/Kg		5	
Bromodichloromethane	ND	ug/Kg		5	
Bromoform	ND	ug/Kg		5	
Bromomethane	ND	ug/Kg		5	
Carbon Tetrachloride	ND	ug/Kg		5	
Chlorobenzene	ND	ug/Kg		5	
Chlorodibromomethane	ND	ug/Kg		5	
Chloroethane	ND	ug/Kg		5	
Chloroform	ND	ug/Kg		5	
Chloromethane	ND	ug/Kg		5	
cis-1,2-Dichloroethene	ND	ug/Kg		5	
cis-1,3-dichloropropene	ND	ug/Kg		5	
cis-1,4-dichloro-2-butene	ND	ug/Kg		5	
Dibromomethane	ND	ug/Kg		5	
Dichlorodifluoromethane	ND	ug/Kg		5	
Di-isopropyl ether (DIPE)	ND	ug/Kg		5	
Ethylbenzene	ND	ug/Kg		5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg		5	
Hexachlorobutadiene	ND	ug/Kg		5	
Isopropylbenzene	ND	ug/Kg		5	
m and p-Xylene	ND	ug/Kg		5	

QCBatchID: QC1199351 **Analyst:** nicollez **Method:** EPA 8260B

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** VOA-MS (group)

Analyte	Blank Result	Units		RDL	Notes
QC1199351MB1					
Methylene chloride	ND	ug/Kg		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg		5	
Naphthalene	ND	ug/Kg		5	
N-butylbenzene	ND	ug/Kg		5	
N-propylbenzene	ND	ug/Kg		5	
o-Xylene	ND	ug/Kg		5	
Sec-butylbenzene	ND	ug/Kg		5	
Styrene	ND	ug/Kg		5	
t-Butyl alcohol (TBA)	ND	ug/Kg		10	
Tert-amylmethylether (TAME)	ND	ug/Kg		5	
Tert-butylbenzene	ND	ug/Kg		5	
Tetrachloroethene	ND	ug/Kg		5	
Toluene	ND	ug/Kg		5	
trans-1,2-dichloroethene	ND	ug/Kg		5	
trans-1,3-dichloropropene	ND	ug/Kg		5	
trans-1,4-dichloro-2-butene	ND	ug/Kg		5	
Trichloroethene	ND	ug/Kg		5	
Trichlorofluoromethane	ND	ug/Kg		5	
Vinyl Chloride	ND	ug/Kg		5	
Xylenes (Total)	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199351LCS1											
1,1-Dichloroethene	50		52		ug/Kg	104			59-172		
Benzene	50		54		ug/Kg	108			62-137		
Chlorobenzene	50		48		ug/Kg	96			60-133		
Methyl-t-butyl Ether (MTBE)	50		48		ug/Kg	96			62-137		
Toluene	50		51		ug/Kg	102			59-139		
Trichloroethene	50		49		ug/Kg	98			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199351MS1, QC1199351MSD1												**Source: 410305-053**
1,1-Dichloroethene	ND	50	50	52	48	ug/Kg	104	96	8.0	59-172	22	
Benzene	ND	50	50	52	50	ug/Kg	104	100	3.9	62-137	24	
Chlorobenzene	ND	50	50	45	40	ug/Kg	90	80	11.8	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	48	47	ug/Kg	96	94	2.1	62-137	21	
Toluene	ND	50	50	48	44	ug/Kg	96	88	8.7	59-139	21	
Trichloroethene	ND	50	50	49	49	ug/Kg	98	98	0.0	66-142	21	

QCBatchID: QC1199359 **Analyst:** ssabir **Method:** EPA 8015M

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199359MB1					
TPH (C10 to C28)	ND	mg/Kg		10	
TPH (C13 to C22)	ND	mg/Kg		10	
TPH (C23 to C40)	ND	mg/Kg		10	
TPH (C23 to C40)	ND	mg/Kg		20	
TPH (C23 to C44)	ND	mg/Kg		10	
TPH (C6 to C12)	ND	mg/Kg		10	
TPH (C6 to C44) Total	ND	mg/Kg		10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199359LCS1											
TPH (C10 to C28)	250		220		mg/Kg	88			60-133		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199359MS1, QC1199359MSD1												**Source: 410215-004**
TPH (C10 to C28)	16	250	250	260	260	mg/Kg	98	98	0.0	70-130	20	

QCBatchID: QC1199360 **Analyst:** dswafford **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199360MB1					
Antimony	ND	mg/Kg		3	
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		1	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	ND	mg/Kg		3	
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		3	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199360LCS1											
Antimony	100		104		mg/Kg	104			80-120		
Arsenic	100		96.7		mg/Kg	97			80-120		
Barium	100		104		mg/Kg	104			80-120		
Beryllium	100		98.2		mg/Kg	98			80-120		
Cadmium	100		101		mg/Kg	101			80-120		
Chromium	100		94.9		mg/Kg	95			80-120		
Cobalt	100		102		mg/Kg	102			80-120		
Copper	100		93.7		mg/Kg	94			80-120		
Lead	100		111		mg/Kg	111			80-120		
Molybdenum	100		100		mg/Kg	100			80-120		
Nickel	100		109		mg/Kg	109			80-120		
Selenium	100		102		mg/Kg	102			80-120		
Silver	100		89.8		mg/Kg	90			80-120		
Thallium	100		100		mg/Kg	100			80-120		
Vanadium	100		102		mg/Kg	102			80-120		
Zinc	100		114		mg/Kg	114			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199360MS1, QC1199360MSD1												**Source: 410304-001**
Antimony	0.87	100	100	29.8	34.4	mg/Kg	29	34	14.3	75-125	20	M
Arsenic	17.7	100	100	115	109	mg/Kg	97	91	5.4	75-125	20	
Barium	140	100	100	252	226	mg/Kg	112	86	10.9	75-125	20	
Beryllium	ND	100	100	104	99.5	mg/Kg	104	100	4.4	75-125	20	
Cadmium	1.67	100	100	99.1	104	mg/Kg	97	102	4.8	75-125	20	
Chromium	36.5	100	100	142	133	mg/Kg	106	97	6.5	75-125	20	
Cobalt	9.81	100	100	116	112	mg/Kg	106	102	3.5	75-125	20	
Copper	20.4	100	100	117	125	mg/Kg	97	105	6.6	75-125	20	
Lead	8.30	100	100	116	118	mg/Kg	108	110	1.7	75-125	20	
Molybdenum	0.18	100	100	92.4	91.4	mg/Kg	92	91	1.1	75-125	20	

QCBatchID: QC1199360 **Analyst:** dswafford **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199360MS1, QC1199360MSD1												**Source: 410304-001**
Nickel	30.6	100	100	152	146	mg/Kg	121	115	4.0	75-125	20	
Selenium	ND	100	100	93.2	96.3	mg/Kg	93	96	3.3	75-125	20	
Silver	ND	100	100	97.9	96.9	mg/Kg	98	97	1.0	75-125	20	
Thallium	1.33	100	100	96.5	96.7	mg/Kg	95	95	0.2	75-125	20	
Vanadium	39.9	100	100	158	148	mg/Kg	118	108	6.5	75-125	20	
Zinc	49.5	100	100	161	161	mg/Kg	112	112	0.0	75-125	20	

QCBatchID: QC1199361 **Analyst:** dswafford **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199361MB1					
Antimony	ND	mg/Kg		3	
Arsenic	ND	mg/Kg		1	
Barium	ND	mg/Kg		1	
Beryllium	ND	mg/Kg		0.5	
Cadmium	ND	mg/Kg		0.5	
Chromium	ND	mg/Kg		1	
Cobalt	ND	mg/Kg		0.5	
Copper	ND	mg/Kg		1	
Lead	ND	mg/Kg		1	
Molybdenum	ND	mg/Kg		1	
Nickel	ND	mg/Kg		1.5	
Selenium	ND	mg/Kg		3	
Silver	ND	mg/Kg		0.5	
Thallium	ND	mg/Kg		3	
Vanadium	ND	mg/Kg		0.5	
Zinc	ND	mg/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199361LCS1											
Antimony	100		100		mg/Kg	100			80-120		
Arsenic	100		95.0		mg/Kg	95			80-120		
Barium	100		104		mg/Kg	104			80-120		
Beryllium	100		106		mg/Kg	106			80-120		
Cadmium	100		99.9		mg/Kg	100			80-120		
Chromium	100		95.0		mg/Kg	95			80-120		
Cobalt	100		101		mg/Kg	101			80-120		
Copper	100		102		mg/Kg	102			80-120		
Lead	100		108		mg/Kg	108			80-120		
Molybdenum	100		99.4		mg/Kg	99			80-120		
Nickel	100		105		mg/Kg	105			80-120		
Selenium	100		91.1		mg/Kg	91			80-120		
Silver	100		98.1		mg/Kg	98			80-120		
Thallium	100		97.5		mg/Kg	98			80-120		
Vanadium	100		102		mg/Kg	102			80-120		
Zinc	100		120		mg/Kg	120			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199361MS1, QC1199361MSD1												**Source: 410304-015**
Antimony	2.10	100	100	26.6	22.4	mg/Kg	25	20	17.1	75-125	20	M
Arsenic	2.62	100	100	92.8	90.2	mg/Kg	90	88	2.8	75-125	20	
Barium	78.8	100	100	178	180	mg/Kg	99	101	1.1	75-125	20	
Beryllium	ND	100	100	87.8	94.4	mg/Kg	88	94	7.2	75-125	20	
Cadmium	2.08	100	100	84.2	89.8	mg/Kg	82	88	6.4	75-125	20	
Chromium	45.3	100	100	152	156	mg/Kg	107	111	2.6	75-125	20	
Cobalt	12.9	100	100	97.6	112	mg/Kg	85	99	13.7	75-125	20	
Copper	16.8	100	100	115	110	mg/Kg	98	93	4.4	75-125	20	
Lead	0.71	100	100	82.2	82.6	mg/Kg	81	82	0.5	75-125	20	
Molybdenum	2.72	100	100	86.4	80.0	mg/Kg	84	77	7.7	75-125	20	

QCBatchID: QC1199361 **Analyst:** dswafford **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** AAICP (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199361MS1, QC1199361MSD1												**Source: 410304-015**
Nickel	51.8	100	100	172	162	mg/Kg	120	110	6.0	75-125	20	
Selenium	ND	100	100	88.7	83.4	mg/Kg	89	83	6.2	75-125	20	
Silver	ND	100	100	84.7	80.9	mg/Kg	85	81	4.6	75-125	20	
Thallium	3.98	100	100	89.6	85.2	mg/Kg	86	81	5.0	75-125	20	
Vanadium	54.4	100	100	167	172	mg/Kg	113	118	2.9	75-125	20	
Zinc	41.8	100	100	153	146	mg/Kg	111	104	4.7	75-125	20	

QCBatchID:	**QC1199369**	**Analyst:**	sbailey-woo	**Method:**	EPA 7471A
Matrix:	Solid	**Analyzed:**	12/26/2018	**Instrument:**	AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1199369MB1						
Mercury	ND	mg/Kg		0.14		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199369LCS1											
Mercury	0.83		0.81		mg/Kg	98			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199369MS1, QC1199369MSD1												**Source: 410304-001**
Mercury	0.05	0.83	0.83	1.02	1.10	mg/Kg	117	127	7.5	75-125	20	M

QCBatchID:	**QC1199370**	**Analyst:**	wei	**Method:**	SM 2510-B
Matrix:	Solid	**Analyzed:**	12/26/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199370DUP1						**Source: 410304-010**
Specific Conductance	511	510	umhos/cm	0.2	20	

QCBatchID:	**QC1199371**	**Analyst:**	wei	**Method:**	SM 2510-B
Matrix:	Solid	**Analyzed:**	12/26/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199371DUP1						**Source: 410304-015**
Specific Conductance	398	390	umhos/cm	2.0	20	

QCBatchID:	**QC1199372**	**Analyst:**	wei	**Method:**	EPA 9045c
Matrix:	Solid	**Analyzed:**	12/26/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199372DUP1						**Source: 410304-001**
pH	8.14	8.16	pH Units	0.2	20	
Temperature (°C)	23.2	23.0	°C	0.9	20	

QCBatchID:	**QC1199373**	**Analyst:**	wei	**Method:**	EPA 9045c
Matrix:	Solid	**Analyzed:**	12/26/2018	**Instrument:**	CHEM (group)

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1199373DUP1						**Source: 410304-015**
pH	7.73	7.75	pH Units	0.3	20	
Temperature (°C)	23.1	23.0	°C	0.4	20	

QCBatchID: QC1199374 **Analyst:** sbailey-woo **Method:** EPA 7471A

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** AAICP-HG1

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1199374MB1						
Mercury	ND	mg/Kg		0.14		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199374LCS1											
Mercury	0.83		0.84		mg/Kg	101			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199374MS1, QC1199374MSD1												**Source: 410304-015**
Mercury	0.04	0.83	0.83	0.84	0.80	mg/Kg	96	92	4.9	75-125	20	

QCBatchID: QC1199403 **Analyst:** tdang **Method:** EPA 8081A

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199403MB1					
4,4'-DDD	ND	ug/Kg		5	
4,4'-DDE	ND	ug/Kg		5	
4,4'-DDT	ND	ug/Kg		5	
a-BHC	ND	ug/Kg		5	
Aldrin	ND	ug/Kg		5	
b-BHC	ND	ug/Kg		5	
Chlordane (technical)	ND	ug/Kg		50	
cis-chlordane	ND	ug/Kg		5	
d-BHC	ND	ug/Kg		5	
Dieldrin	ND	ug/Kg		5	
Endosulfan I	ND	ug/Kg		5	
Endosulfan II	ND	ug/Kg		5	
Endosulfan sulfate	ND	ug/Kg		5	
Endrin	ND	ug/Kg		5	
Endrin aldehyde	ND	ug/Kg		5	
Endrin Ketone	ND	ug/Kg		5	
Heptachlor	ND	ug/Kg		5	
Heptachlor epoxide	ND	ug/Kg		5	
Hexachlorobenzene		ug/Kg			
Lindane (Gamma-BHC)	ND	ug/Kg		5	
Methoxychlor	ND	ug/Kg		10	
Mirex	ND	ug/Kg		50	
Toxaphene	ND	ug/Kg		100	
trans-chlordane	ND	ug/Kg		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199403LCS1											
4,4'-DDD	50		40		ug/Kg	80			43-172		
4,4'-DDE	50		38		ug/Kg	76			44-163		
4,4'-DDT	50		47		ug/Kg	94			40-158		
a-BHC	50		39		ug/Kg	78			45-150		
Aldrin	50		40		ug/Kg	80			46-142		
b-BHC	50		41		ug/Kg	82			42-156		
d-BHC	50		38		ug/Kg	76			37-161		
Dieldrin	50		40		ug/Kg	80			47-151		
Endosulfan I	50		30		ug/Kg	60			47-141		
Endosulfan II	50		38		ug/Kg	76			44-156		
Endosulfan sulfate	50		45		ug/Kg	90			43-157		
Endrin	50		43		ug/Kg	86			47-160		
Endrin aldehyde	50		38		ug/Kg	76			32-127		
Endrin Ketone	50		40		ug/Kg	80			48-159		
Heptachlor	50		39		ug/Kg	78			50-144		
Heptachlor epoxide	50		37		ug/Kg	74			48-145		
Lindane (Gamma-BHC)	50		36		ug/Kg	72			47-151		
Methoxychlor	50		62		ug/Kg	124			36-182		

QCBatchID:	**QC1199403**	**Analyst:**	tdang	**Method:**	EPA 8081A
Matrix:	Solid	**Analyzed:**	12/26/2018	**Instrument:**	SVOA-GC (group)

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199403MS1												**Source: 410304-001**
4,4'-DDD	ND	50		47		ug/Kg	94			43-172		
4,4'-DDE	ND	50		43		ug/Kg	86			44-163		
4,4'-DDT	ND	50		55		ug/Kg	110			40-158		
a-BHC	ND	50		45		ug/Kg	90			45-150		
Aldrin	ND	50		46		ug/Kg	92			46-142		
b-BHC	ND	50		52		ug/Kg	104			42-156		
d-BHC	ND	50		46		ug/Kg	92			37-161		
Dieldrin	ND	50		46		ug/Kg	92			47-151		
Endosulfan I	ND	50		35		ug/Kg	70			47-141		
Endosulfan II	ND	50		42		ug/Kg	84			44-156		
Endosulfan sulfate	ND	50		50		ug/Kg	100			43-157		
Endrin	ND	50		50		ug/Kg	100			47-160		
Endrin aldehyde	ND	50		42		ug/Kg	84			32-127		
Endrin Ketone	ND	50		44		ug/Kg	88			48-159		
Heptachlor	ND	50		52		ug/Kg	104			50-144		
Heptachlor epoxide	ND	50		41		ug/Kg	82			48-145		
Lindane (Gamma-BHC)	ND	50		45		ug/Kg	90			47-151		
Methoxychlor	ND	50		69		ug/Kg	138			36-182		

QCBatchID: QC1199404 **Analyst:** tdang **Method:** EPA 8082

Matrix: Solid **Analyzed:** 12/26/2018 **Instrument:** SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1199404MB1					
PCB-1016	ND	ug/Kg		50	
PCB-1221	ND	ug/Kg		50	
PCB-1232	ND	ug/Kg		50	
PCB-1242	ND	ug/Kg		50	
PCB-1248	ND	ug/Kg		50	
PCB-1254	ND	ug/Kg		50	
PCB-1260	ND	ug/Kg		50	
PCB-1262	ND	ug/Kg		50	
PCB-1268	ND	ug/Kg		50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199404LCS1											
PCB-1016	500		490		ug/Kg	98			70-130		
PCB-1260	500		420		ug/Kg	84			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199404MS1												**Source: 410304-002**
PCB-1016	ND	500		590		ug/Kg	118			70-130		
PCB-1260	ND	500		460		ug/Kg	92			70-130		

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868	Lab No: 410304	Standard:	4 Day:	3 Day:
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 1 of 2	2 Day:	1 Day:	Same Day:
Billing: Enthalpy - Orange c/o Montrose Environmental Group P.O. Box 741137, Los Angeles, CA 90074-1137	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Forensic Analytical Consulting	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ 40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	29594 E. Pacific Commerce Dr,	Address:	30215 Morning View Dr,
	Compton, CA 90221		Malibu, CA 90265
Phone:	310-668-5600	Global ID:	
Fax:		Sampled By:	Munzer Alkassas

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Hold	Analysis Request	Test Instructions / Comments
1	01 - behind tennis court	12/21/18	10:23	S			X		
2	02 -	"	10:34	S			X		
3	03 -	"	10:48	S			X		
4	04 -	"	11:00	S			X		
5	05 - Soccer 2	"	11:13	S			X		
6	06 -	"	11:33	S			X		
7	07 -	"	11:45	S			X		
8	08 -	"	12:10	S			X		
9	09 - Baseball 2	"	12:29	S			X		
10	10 - Baseball 1	"	12:43	S			X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alkassas	Munzer Alkassas	FACS / Tech.	12/21/18 17:144
[1] Received By:	Christine Castro	Christine Castro	Enthalpy	12/21/18 17:44
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868	Lab No: 410304	Standard:	4 Day:	3 Day:
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 2	2 Day:	1 Day:	Same Day:
Billing: Enthalpy - Orange c/o Montrose Environmental Group P.O. Box 741137, Los Angeles, CA 90074-1137	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Forensic Analytical	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ 40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	29501 E. Pacific Commerce Dr, Compton, CA 90221	Address:	30215 Morning View Dr Malibu, CA 90265
Phone:	310-668-5600	Global ID:	
Fax:		Sampled By:	Munzer Alkassas

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: PAH	Test Instructions / Comments
1	11 - Baseball 2	12/21/18	01:02	S			X	
2	12 - Baseball 2	"	01:14	S			X	
3	13 - Soccer 1	"	01:29	S			X	
4	14 - Soccer 1	"	01:45	S			X	
5	15 - Soccer 1	"	01:57	S			X	
6								
7								
8								
9								
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alkassas	Munzer Alkassas	FACS / Tech.	12/21/19 17:44
[1] Received By:	Christine Castro	Christine Castro	Enthalpy	12/21/19 17:44
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

From: FACS: Pearl Pereira
To: Daniel Chavez
Cc: Diane Galvan
Subject: Re: Malibu HS
Date: Saturday, December 22, 2018 11:00:24 AM

Yes. Can we run the previous batch for EC too?

Pearl J. Pereira, P.G., C.H.G
Director, Southern California

FACS Environmental Services
P: 714.594.9350

On Dec 21, 2018, at 10:42 PM, Daniel Chavez <daniel.chavez@enthalpy.com> wrote:

> Hi Pearl,
>
> That shouldn't be a problem. So to be sure the lab is clear on the analyses, you are looking to test all samples for the following:
>
> - 6010B/7471A CAM 17 Metals
> - 8260B VOCs
> - 8015 Carbon Chain
> - 8081 OC Pesticides
> - 8082 PCBs
> - pH
> - Conducitivity
> - Grain Size Distribution (subcontract)
>
> Is this correct?
>
> **Dan Chavez**
> Business Development Manager
>
> "In observance of Thanksgiving, Christmas and New Year, Enthalpy Analytical will be closed on November 22nd - 23rd, December 24th – 25th and January 1st. For special projects or short hold analyses, please coordinate with your project manager in advance."
>
> 
>
> 931 W. Barkley Ave.
> Orange, CA 92868
> Cell: (562) 900-7466
> Office: (714) 656-0148

daniel.chavez@enthalpy.com

On Fri, Dec 21, 2018 at 9:43 PM FACS: Pearl Pereira <ppereira@forensicanalytical.com> wrote:

> Hi Dan,
> Can we do the same analysis as we did before on the fasted TAT you can manage. I also need pH, EC, and grain size distribution. Can you send me a cost estimate for it.
>
> Pearl J. Pereira, P.G., C.H.G
> Director, Southern California
>
> FACS Environmental Services
> P: 714.594.9350
>
> Begin forwarded message:
>
> **From:** Munzer Alkassas <munzer.alkassas@forensicanalytical.com>
> **Date:** December 21, 2018 at 8:04:33 PM PST
> **To:** Pearl Pereira <ppereira@forensicanalytical.com>
> **Subject: Malibu HS**
>
> Hello Pearl,
>
> For today's project, I have collected a total of 15 samples. I had to go to the lab and drop the samples off because they don't have any carriers available, I should request it earlier. However, I have put the samples on hold and waiting for your decision regarding the analysis method.
>
> Thank you,
> --
>
> Best Regards,
>
> Munzer Alkassas
>
> **IH Field Technician**
>
> Forensic Analytical Consulting Services
>
> 2959 Pacific Commerce Drive

Rancho Dominguez, CA 90221

P: (310)668-5600

munzer.alkassas@forensicanalytical.com | forensicanalytical.com

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Forensic Analytical Consulting Project: Malibu HS Soil Sampling

Date Received: 12/21/18 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 7.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Cooler left in vehicle.

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: N/A #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/21/18

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Forensic Analytical Consulting Services
Address: 2959 E Pacific Commerce Dr
Rancho Dominguez, CA 90221

Attn: Pearl Pereira

Comments: Malibu HS- Soil Sampling
#PJ40247

Supplemental report. Please see attached for Grain Size results.

Lab Request: 410304
Report Date: 01/02/2019
Date Received: 12/21/2018
Client ID: 15899

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
410304-001	01- Behind tennis court
410304-002	02- Behind tennis court
410304-003	03- Behind tennis court
410304-004	04- Behind tennis court
410304-005	05- Soccer 2
410304-006	06- Soccer 2
410304-007	07- Soccer 2
410304-008	08- Soccer 2
410304-009	09- Baseball 2
410304-010	10- Baseball 1
410304-011	11- Baseball 2
410304-012	12- Baseball 2
410304-013	13- Soccer 1
410304-014	14- Soccer 1
410304-015	15- Soccer 1

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

ACCREDITED IN ACCORDANCE WITH nelac

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:23 **Site:**
Sample #: **410304-001** **Client Sample #:** 01- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:34 **Site:**
Sample #: **410304-002** **Client Sample #:** 02- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 10:48 **Site:**
Sample #: **410304-003** **Client Sample #:** 03- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:00 **Site:**
Sample #: **410304-004** **Client Sample #:** 04- Behind tennis court **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:13 **Site:**
Sample #: **410304-005** **Client Sample #:** 05- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:33 **Site:**
Sample #: **410304-006** **Client Sample #:** 06- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 11:45 **Site:**
Sample #: **410304-007** **Client Sample #:** 07- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:10 **Site:**
Sample #: **410304-008** **Client Sample #:** 08- Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:29 **Site:**
Sample #: **410304-009** **Client Sample #:** 09- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 12:43 **Site:**
Sample #: **410304-010** **Client Sample #:** 10- Baseball 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:02 **Site:**
Sample #: **410304-011** **Client Sample #:** 11- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:14 **Site:**
Sample #: **410304-012** **Client Sample #:** 12- Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:29 **Site:**
Sample #: **410304-013** **Client Sample #:** 13- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:45 **Site:**
Sample #: **410304-014** **Client Sample #:** 14- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/21/2018 13:57 **Site:**
Sample #: **410304-015** **Client Sample #:** 15- Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: ALO 6030	Prep Method: Method						QCBatchID:	
See Attached		1						

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868	Lab No: 410304	Standard:	4 Day:	3 Day:
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 1 of 2	2 Day:	1 Day:	Same Day:
Billing: Enthalpy - Orange c/o Montrose Environmental Group P.O. Box 741137, Los Angeles, CA 90074-1137	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Forensic Analytical Consulting	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ 40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	29594 E. Pacific Commerce Dr,	Address:	30215 Morning View Dr,
	Compton, CA 90221		Malibu, CA 90265
Phone:	310-668-5600	Global ID:	
Fax:		Sampled By:	Munzer Alkassas

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Hold	Analysis Request	Test Instructions / Comments
1	01 - behind tennis court	12/21/18	10:23	S			X		
2	02 -	"	10:34	S			X		
3	03 -	"	10:48	S			X		
4	04 -	"	11:00	S			X		
5	05 - Soccer 2	"	11:13	S			X		
6	06 -	"	11:33	S			X		
7	07 -	"	11:45	S			X		
8	08 -	"	12:10	S			X		
9	09 - Baseball 2	"	12:29	S			X		
10	10 - Baseball 1	"	12:43	S			X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alkassas	Munzer Alkassas	FACS / Tech.	12/21/18 17:144
[1] Received By:	Christine Castro	Christine Castro	Enthalpy	12/21/18 17:44
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL, INC.	Chain of Custody Record	Turn Around Time (Rush by advanced notice only)
931 W. Barkley Ave, Orange, CA 92868	Lab No: 410304	Standard:	4 Day:	3 Day:
Phone: (714) 771-6900 Fax: (714)771-9933	Page: 2 of 2	2 Day:	1 Day:	Same Day:
Billing: Enthalpy - Orange c/o Montrose Environmental Group P.O. Box 741137, Los Angeles, CA 90074-1137	**Matrix:** A = Air DW = Drinking Water FL = Food Liquid FS = Food Solid L = Liquid PP = Pure Product S = Solid SeaW = Sea Water SW = Swab W = Water WP = Wipe O = Other	**Preservatives:** 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Forensic Analytical	Name:	Malibu HS - Soil Sampling
Report To:	Pearl Pereira	Number:	PJ 40247
Email:	ppereira@forensicanalytical.com	P.O. #:	
Address:	29501 E. Pacific Commerce Dr, Compton, CA 90221	Address:	30215 Morning View Dr Malibu, CA 90265
Phone:	310-668-5600	Global ID:	
Fax:		Sampled By:	Munzer Alkassas

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: PAH	Test Instructions / Comments
1	11 - Baseball 2	12/21/18	01:02	S			X	
2	12 - Baseball 2	"	01:14	S			X	
3	13 - Soccer 1	"	01:29	S			X	
4	14 - Soccer 1	"	01:45	S			X	
5	15 - Soccer 1	"	01:57	S			X	
6								
7								
8								
9								
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Munzer Alkassas	Munzer Alkassas	FACS / Tech.	12/21/19 17:44
[1] Received By:	Christine Castro	Christine Castro	Enthalpy	12/21/19 17:44
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Forensic Analytical Consulting Project: Malibu HS Soil Sampling

Date Received: 12/21/18 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 7.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Cooler left in vehicle.

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: N/A #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/21/18

From: FACS: Pearl Pereira
To: Daniel Chavez
Cc: Diane Galvan
Subject: Re: Malibu HS
Date: Saturday, December 22, 2018 11:00:24 AM

Yes. Can we run the previous batch for EC too?

Pearl J. Pereira, P.G., C.H.G
Director, Southern California

FACS Environmental Services
P: 714.594.9350

On Dec 21, 2018, at 10:42 PM, Daniel Chavez <daniel.chavez@enthalpy.com> wrote:

> Hi Pearl,
>
> That shouldn't be a problem. So to be sure the lab is clear on the analyses, you are looking to test all samples for the following:
>
> - 6010B/7471A CAM 17 Metals
> - 8260B VOCs
> - 8015 Carbon Chain
> - 8081 OC Pesticides
> - 8082 PCBs
> - pH
> - Conducitivity
> - Grain Size Distribution (subcontract)
>
> Is this correct?
>
> **Dan Chavez**
> Business Development Manager
>
> "In observance of Thanksgiving, Christmas and New Year, Enthalpy Analytical will be closed on November 22nd - 23rd, December 24th – 25th and January 1st. For special projects or short hold analyses, please coordinate with your project manager in advance."
>
> 
>
> 931 W. Barkley Ave.
> Orange, CA 92868
> Cell: (562) 900-7466
> Office: (714) 656-0148

daniel.chavez@enthalpy.com

On Fri, Dec 21, 2018 at 9:43 PM FACS: Pearl Pereira <ppereira@forensicanalytical.com> wrote:

> Hi Dan,
> Can we do the same analysis as we did before on the fasted TAT you can manage. I also need pH, EC, and grain size distribution. Can you send me a cost estimate for it.
>
> Pearl J. Pereira, P.G., C.H.G
> Director, Southern California
>
> FACS Environmental Services
> P: 714.594.9350
>
> Begin forwarded message:
>
> **From:** Munzer Alkassas <munzer.alkassas@forensicanalytical.com>
> **Date:** December 21, 2018 at 8:04:33 PM PST
> **To:** Pearl Pereira <ppereira@forensicanalytical.com>
> **Subject: Malibu HS**
>
> Hello Pearl,
>
> For today's project, I have collected a total of 15 samples. I had to go to the lab and drop the samples off because they don't have any carriers available, I should request it earlier. However, I have put the samples on hold and waiting for your decision regarding the analysis method.
>
> Thank you,
> --
>
> Best Regards,
>
> Munzer Alkassas
>
> **IH Field Technician**
>
> Forensic Analytical Consulting Services
>
> 2959 Pacific Commerce Drive

Rancho Dominguez, CA 90221

P: (310)668-5600

munzer.alkassas@forensicanalytical.com | forensicanalytical.com

Petroleum Services Division
3437 Landco Dr.
Bakersfield, California 93308
Tel: 661-325-5657
Fax: 661-325-5808
www.corelab.com

January 2, 2019

Diane Galvan
Enthalpy Analytical, Inc.
1 Park Plaza, Suite 1000
Irvine, CA 92614

Subject: Laser Particle Size Analysis
Project:410304
CL File No: 1804627

Dear Diane,

The attached file presents the final particle size determination results for the 15 soil samples submitted from your Project #410304.

Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The sample for this project is currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the sample will be disposed. You may contact me regarding continued storage, disoposal, or return of the sample.

Thank you for this opportunity to be of service to Enthalpy Analytical, Inc. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

Chris Florence
Sr. Core Analyst

Core Lab
RESERVOIR OPTIMIZATION

SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Date: 1/2/2019

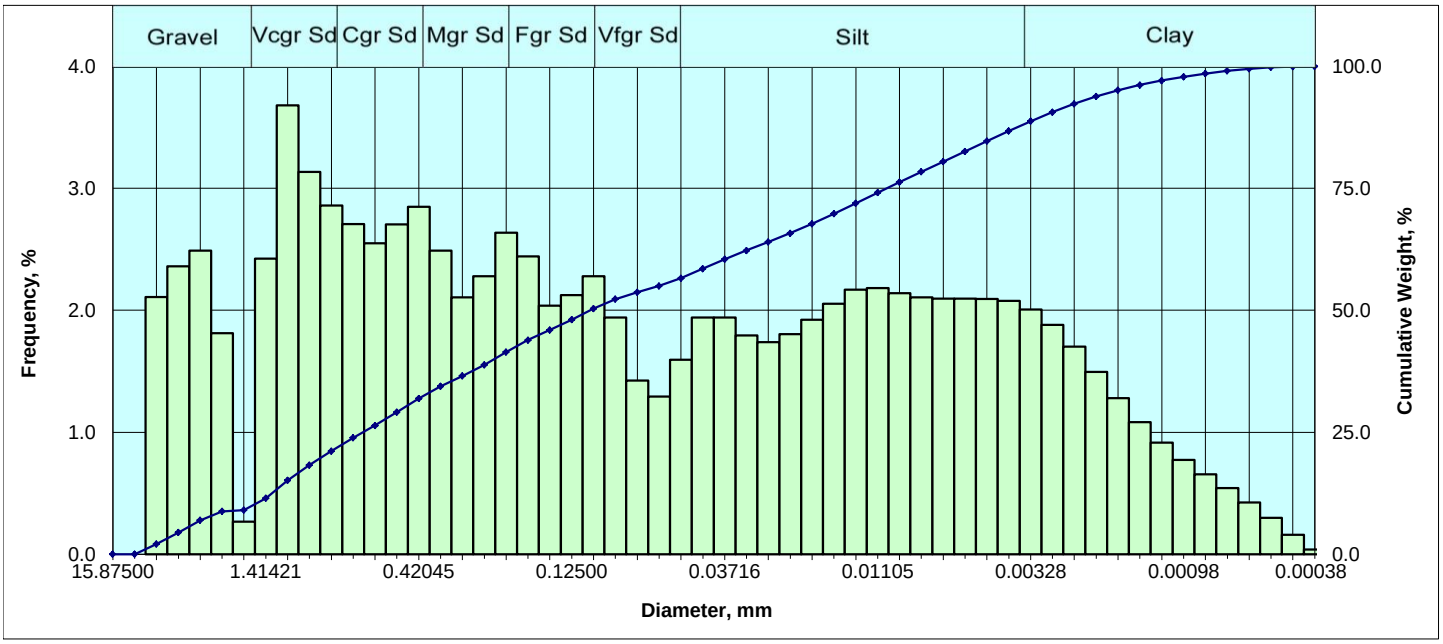
Sample ID	Grain Size Description** (Mean from Folk)	Median Grain Size, mm	Component Percentages								
				Sand Size							
			Granule	VCoarse	Coarse	Medium	Fine	VFine	Silt	Clay	Silt & Clay
01-Behind tennis court	Very Fine Grain Sand	0.1081	8.77	9.51	10.82	9.72	9.24	6.94	31.75	13.25	45.00
02-Behind tennis court	Silt	0.0475	14.87	0.01	5.85	9.72	7.53	8.71	37.21	16.11	53.32
03-Behind tennis court	Silt	0.0310	5.60	6.47	9.87	8.29	6.34	6.58	35.66	21.18	56.84
04-Behind tennis court	Medium Grain Sand	0.6431	25.03	11.96	17.79	10.62	5.79	4.31	16.13	8.37	24.50
05-Soccer 2	Silt	0.0058	9.97	0.00	0.00	0.00	0.00	0.00	51.16	38.87	90.03
06-Soccer 2	Silt	0.0084	0.96	0.00	0.00	0.00	0.00	0.00	69.78	29.26	99.04
07-Soccer 2	Silt	0.0123	11.42	0.00	0.00	0.00	0.00	0.00	67.83	20.75	88.58
08-Soccer 2	Silt	0.0075	0.00	0.00	0.00	0.00	0.00	0.00	71.56	28.44	100.00
09-Baseball 2	Very Fine Grain Sand	0.0857	6.90	0.01	10.28	16.14	10.79	9.77	34.67	11.43	46.10
10-Baseball 1	Silt	0.0125	19.65	0.00	0.00	0.00	0.00	0.00	59.15	21.20	80.35
11-Baseball 2	Silt	0.0069	10.95	0.00	0.00	0.00	0.00	0.00	52.91	36.14	89.05
12-Baseball 2	Silt	0.0079	0.45	0.00	0.00	0.00	0.00	0.00	71.63	27.91	99.55
13-Soccer 1	Silt	0.0046	3.11	0.00	0.00	0.00	0.00	0.00	51.92	44.97	96.89
14-Soccer 1	Silt	0.0046	2.56	0.00	0.00	0.00	0.00	0.00	52.75	44.68	97.44
15-Soccer 1	Silt	0.0065	5.98	0.00	0.00	0.00	0.00	0.00	56.47	37.55	94.02

**Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 01-Behind tennis court

Sieve and Laser Particle Size Analysis



Particle Size Distribution

	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	2.109	2.11
	6	0.131890	3.35000	-1.75	2.362	4.47
	8	0.092913	2.36000	-1.25	2.488	6.96
	10	0.078740	2.00000	-1.00	1.814	8.77
V Crse Sand	12	0.066212	1.68179	-0.75	0.267	9.04
	14	0.055678	1.41421	-0.50	2.423	11.46
	16	0.046819	1.18921	-0.25	3.681	15.14
	18	0.039370	1.00000	0.00	3.136	18.28
Coarse Sand	20	0.033106	0.84090	0.25	2.859	21.14
	25	0.027839	0.70711	0.50	2.706	23.84
	30	0.023410	0.59460	0.75	2.549	26.39
	35	0.019685	0.50000	1.00	2.706	29.10
Medium Sand	40	0.016553	0.42045	1.25	2.848	31.95
	45	0.013919	0.35355	1.50	2.489	34.44
	50	0.011705	0.29730	1.75	2.105	36.54
	60	0.009843	0.25000	2.00	2.279	38.82
Fine Sand	70	0.008277	0.21022	2.25	2.637	41.46
	80	0.006960	0.17678	2.50	2.441	43.90
	100	0.005852	0.14865	2.75	2.039	45.94
	120	0.004921	0.12500	3.00	2.125	48.06
V. Fine Sand	140	0.004138	0.10511	3.25	2.279	50.34
	170	0.003480	0.08839	3.50	1.942	52.29
	200	0.002926	0.07433	3.75	1.424	53.71
	230	0.002461	0.06250	4.00	1.292	55.00
Silt	270	0.002069	0.05256	4.25	1.596	56.60
	325	0.001740	0.04419	4.50	1.940	58.54
	400	0.001463	0.03716	4.75	1.940	60.48
	450	0.001230	0.03125	5.00	1.793	62.27
	500	0.001035	0.02628	5.25	1.738	64.01
	635	0.000870	0.02210	5.50	1.804	65.81
		0.000732	0.01858	5.75	1.923	67.73
		0.000615	0.01562	6.00	2.053	69.79
		0.000517	0.01314	6.25	2.168	71.95
		0.000435	0.01105	6.50	2.183	74.14
		0.000366	0.00929	6.75	2.140	76.28
		0.000308	0.00781	7.00	2.107	78.39
		0.000259	0.00657	7.25	2.096	80.48
		0.000217	0.00552	7.50	2.096	82.58
		0.000183	0.00465	7.75	2.093	84.67
		0.000154	0.00391	8.00	2.078	86.75
Clay		0.000129	0.00328	8.25	2.007	88.75
		0.000109	0.00276	8.50	1.880	90.63
		0.000091	0.00232	8.75	1.702	92.34
		0.000077	0.00195	9.00	1.494	93.83
		0.000065	0.00164	9.25	1.279	95.11
		0.000054	0.00138	9.50	1.083	96.19
		0.000046	0.00116	9.75	0.915	97.11
		0.000038	0.00098	10.00	0.775	97.88
		0.000032	0.00082	10.25	0.656	98.54
		0.000027	0.00069	10.50	0.541	99.08
		0.000023	0.00058	10.75	0.424	99.50
		0.000019	0.00049	11.00	0.298	99.80
		0.000016	0.00041	11.25	0.160	99.96
		0.000015	0.00038	11.50	0.039	100.00

Sorting Statistics (Folk)

Parameter	Trask	Inman	Folk
Median	Very fine sand sized		
(in)	0.0043	0.0043	0.0043
(mm)	0.1081	0.1081	0.1081
Mean	Very fine sand sized		
(in)	0.0131	0.0029	0.0033
(mm)	0.3332	0.0749	0.0846
Sorting	Very poor		
	7.966	3.926	3.611
Skewness	Finely skewed		
	0.762	0.147	0.121
Kurtosis	Platykurtic		
	0.205	0.385	0.745

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
8.77	46.23	31.75	13.25	45.00

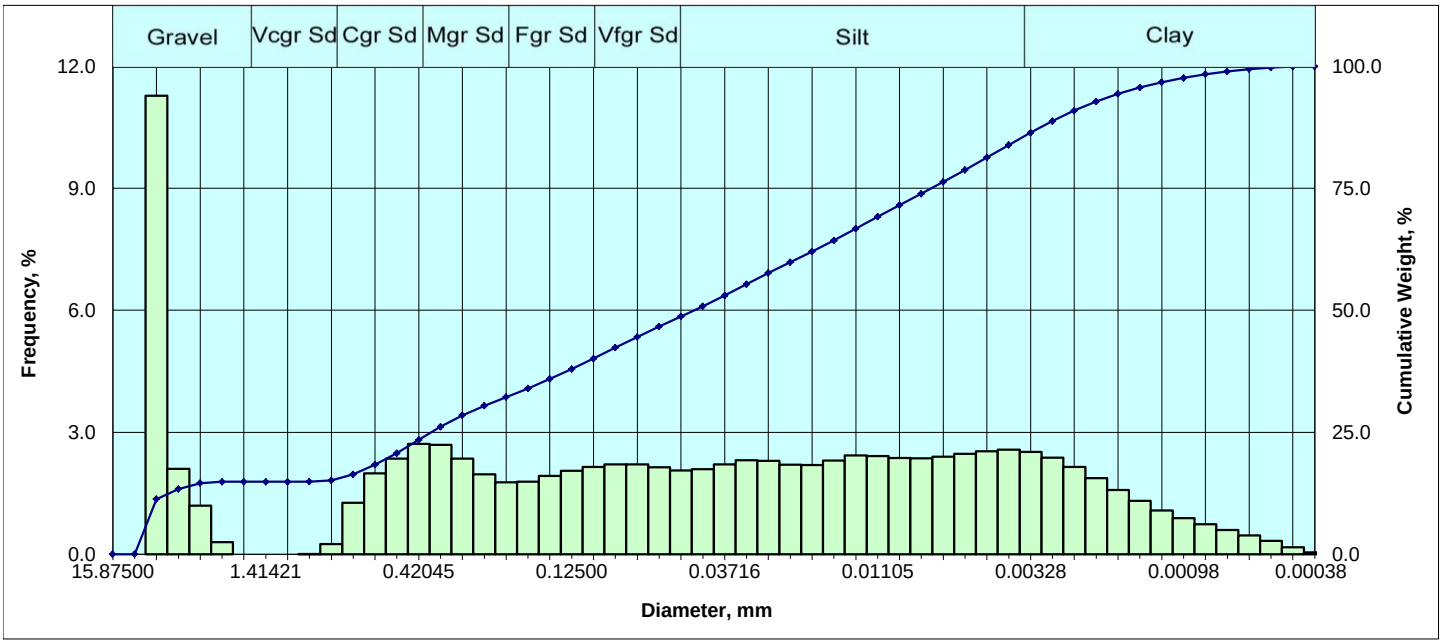
Percentile [Weight, %]	Particle Diameter [in.]	[mm]	[phi]
5	0.1236	3.1394	-1.6505
10	0.0620	1.5757	-0.6560
16	0.0448	1.1375	-0.1859
25	0.0258	0.6561	0.6080
40	0.0091	0.2322	2.1064
50	0.0043	0.1081	3.2095
60	0.0015	0.0389	4.6845
75	0.0004	0.0103	6.5956
84	0.0002	0.0049	7.6652
90	0.0001	0.0029	8.4107
95	0.0001	0.0017	9.2269

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 02-Behind tennis court

Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	11.277	11.28
	6	0.131890	3.35000	-1.75	2.096	13.37
	8	0.092913	2.36000	-1.25	1.198	14.57
	10	0.078740	2.00000	-1.00	0.299	14.87
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	14.87
	14	0.055678	1.41421	-0.50	0.000	14.87
	16	0.046819	1.18921	-0.25	0.000	14.87
	18	0.039370	1.00000	0.00	0.005	14.88
Coarse Sand	20	0.033106	0.84090	0.25	0.246	15.12
	25	0.027839	0.70711	0.50	1.267	16.39
	30	0.023410	0.59460	0.75	1.986	18.37
	35	0.019685	0.50000	1.00	2.352	20.73
Medium Sand	40	0.016553	0.42045	1.25	2.711	23.44
	45	0.013919	0.35355	1.50	2.691	26.13
	50	0.011705	0.29730	1.75	2.350	28.48
	60	0.009843	0.25000	2.00	1.965	30.44
Fine Sand	70	0.008277	0.21022	2.25	1.765	32.21
	80	0.006960	0.17678	2.50	1.783	33.99
	100	0.005852	0.14865	2.75	1.929	35.92
	120	0.004921	0.12500	3.00	2.051	37.97
V. Fine Sand	140	0.004138	0.10511	3.25	2.145	40.12
	170	0.003480	0.08839	3.50	2.213	42.33
	200	0.002926	0.07433	3.75	2.212	44.54
	230	0.002461	0.06250	4.00	2.139	46.68
Silt	270	0.002069	0.05256	4.25	2.063	48.74
	325	0.001740	0.04419	4.50	2.090	50.83
	400	0.001463	0.03716	4.75	2.207	53.04
	450	0.001230	0.03125	5.00	2.310	55.35
	500	0.001035	0.02628	5.25	2.294	57.64
	635	0.000870	0.02210	5.50	2.202	59.85
		0.000732	0.01858	5.75	2.191	62.04
		0.000615	0.01562	6.00	2.307	64.34
		0.000517	0.01314	6.25	2.427	66.77
		0.000435	0.01105	6.50	2.418	69.19
		0.000366	0.00929	6.75	2.369	71.56
		0.000308	0.00781	7.00	2.362	73.92
		0.000259	0.00657	7.25	2.402	76.32
		0.000217	0.00552	7.50	2.469	78.79
		0.000183	0.00465	7.75	2.532	81.32
		0.000154	0.00391	8.00	2.570	83.89
Clay		0.000129	0.00328	8.25	2.519	86.41
		0.000109	0.00276	8.50	2.374	88.79
		0.000091	0.00232	8.75	2.148	90.93
		0.000077	0.00195	9.00	1.870	92.80
		0.000065	0.00164	9.25	1.578	94.38
		0.000054	0.00138	9.50	1.308	95.69
		0.000046	0.00116	9.75	1.078	96.77
		0.000038	0.00098	10.00	0.889	97.66
		0.000032	0.00082	10.25	0.737	98.40
		0.000027	0.00069	10.50	0.599	98.99
		0.000023	0.00058	10.75	0.464	99.46
		0.000019	0.00049	11.00	0.325	99.78
		0.000016	0.00041	11.25	0.174	99.96
		0.000015	0.00038	11.50	0.043	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0019	0.0019	0.0019
(mm)	0.0475	0.0475	0.0475
Mean	Silt sized		
(in)	0.0077	0.0021	0.0020
(mm)	0.1944	0.0539	0.0517
Sorting	Very poor		
	7.253	3.796	3.754
Skewness	Coarse skewed		
	1.107	-0.305	-0.118
Kurtosis	Platykurtic		
	0.035	0.614	0.878

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
14.87	31.81	37.21	16.11	53.32

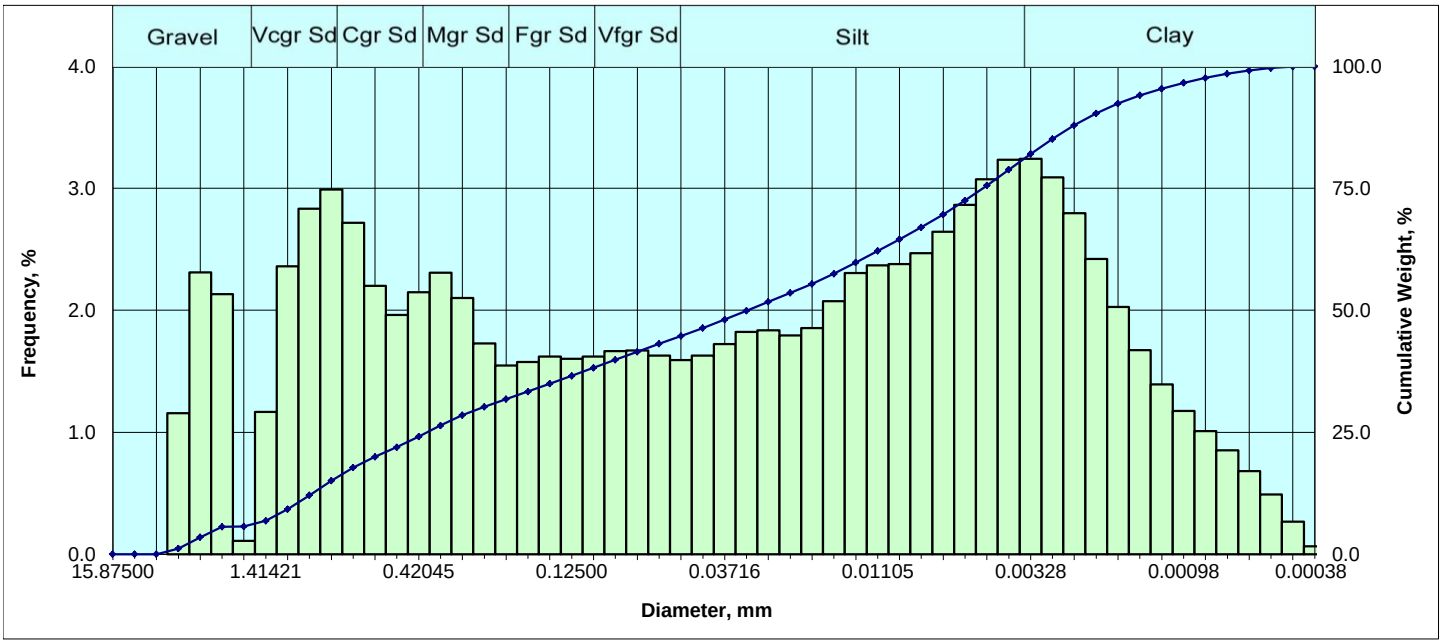
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.2911	7.3940	-2.8864
10	0.2082	5.2881	-2.4027
16	0.0295	0.7482	0.4186
25	0.0150	0.3816	1.3899
40	0.0042	0.1062	3.2353
50	0.0019	0.0475	4.3952
60	0.0009	0.0219	5.5162
75	0.0003	0.0073	7.1071
84	0.0002	0.0039	8.0098
90	0.0001	0.0025	8.6359
95	0.0001	0.0015	9.3625

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 03-Behind tennis court

Sieve and Laser Particle Size Analysis



Particle Size Distribution

	Diameter [US Mesh]	[in.]	[mm]	[ϕ]	Weight % [Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	1.156	1.16
	8	0.092913	2.36000	-1.25	2.311	3.47
	10	0.078740	2.00000	-1.00	2.133	5.60
V Crse Sand	12	0.066212	1.68179	-0.75	0.110	5.71
	14	0.055678	1.41421	-0.50	1.167	6.88
	16	0.046819	1.18921	-0.25	2.360	9.24
	18	0.039370	1.00000	0.00	2.833	12.07
Coarse Sand	20	0.033106	0.84090	0.25	2.990	15.06
	25	0.027839	0.70711	0.50	2.717	17.78
	30	0.023410	0.59460	0.75	2.201	19.98
	35	0.019685	0.50000	1.00	1.961	21.94
Medium Sand	40	0.016553	0.42045	1.25	2.147	24.09
	45	0.013919	0.35355	1.50	2.309	26.40
	50	0.011705	0.29730	1.75	2.102	28.50
	60	0.009843	0.25000	2.00	1.730	30.23
Fine Sand	70	0.008277	0.21022	2.25	1.547	31.77
	80	0.006960	0.17678	2.50	1.576	33.35
	100	0.005852	0.14865	2.75	1.620	34.97
	120	0.004921	0.12500	3.00	1.602	36.57
V. Fine Sand	140	0.004138	0.10511	3.25	1.620	38.19
	170	0.003480	0.08839	3.50	1.666	39.86
	200	0.002926	0.07433	3.75	1.670	41.53
	230	0.002461	0.06250	4.00	1.628	43.16
Silt	270	0.002069	0.05256	4.25	1.592	44.75
	325	0.001740	0.04419	4.50	1.628	46.38
	400	0.001463	0.03716	4.75	1.724	48.10
	450	0.001230	0.03125	5.00	1.822	49.92
	500	0.001035	0.02628	5.25	1.835	51.76
	635	0.000870	0.02210	5.50	1.795	53.55
		0.000732	0.01858	5.75	1.855	55.41
		0.000615	0.01562	6.00	2.074	57.48
		0.000517	0.01314	6.25	2.306	59.79
		0.000435	0.01105	6.50	2.368	62.15
		0.000366	0.00929	6.75	2.379	64.53
		0.000308	0.00781	7.00	2.468	67.00
		0.000259	0.00657	7.25	2.644	69.65
		0.000217	0.00552	7.50	2.864	72.51
		0.000183	0.00465	7.75	3.073	75.58
		0.000154	0.00391	8.00	3.235	78.82
Clay		0.000129	0.00328	8.25	3.243	82.06
		0.000109	0.00276	8.50	3.089	85.15
		0.000091	0.00232	8.75	2.797	87.95
		0.000077	0.00195	9.00	2.420	90.37
		0.000065	0.00164	9.25	2.026	92.39
		0.000054	0.00138	9.50	1.674	94.07
		0.000046	0.00116	9.75	1.391	95.46
		0.000038	0.00098	10.00	1.176	96.63
		0.000032	0.00082	10.25	1.010	97.64
		0.000027	0.00069	10.50	0.851	98.50
		0.000023	0.00058	10.75	0.682	99.18
		0.000019	0.00049	11.00	0.490	99.67
		0.000016	0.00041	11.25	0.267	99.93
		0.000015	0.00038	11.50	0.066	100.00

Sorting Statistics (Folk)

Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0012	0.0012	0.0012
(mm)	0.0310	0.0310	0.0310
Mean	Silt sized		
(in)	0.0079	0.0019	0.0016
(mm)	0.1994	0.0485	0.0418
Sorting	Very poor		
	9.049	4.035	3.644
Skewness	Coarse skewed		
	1.403	-0.177	-0.146
Kurtosis	Platykurtic		
	0.171	0.330	0.692

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
5.60	37.56	35.66	21.18	56.84

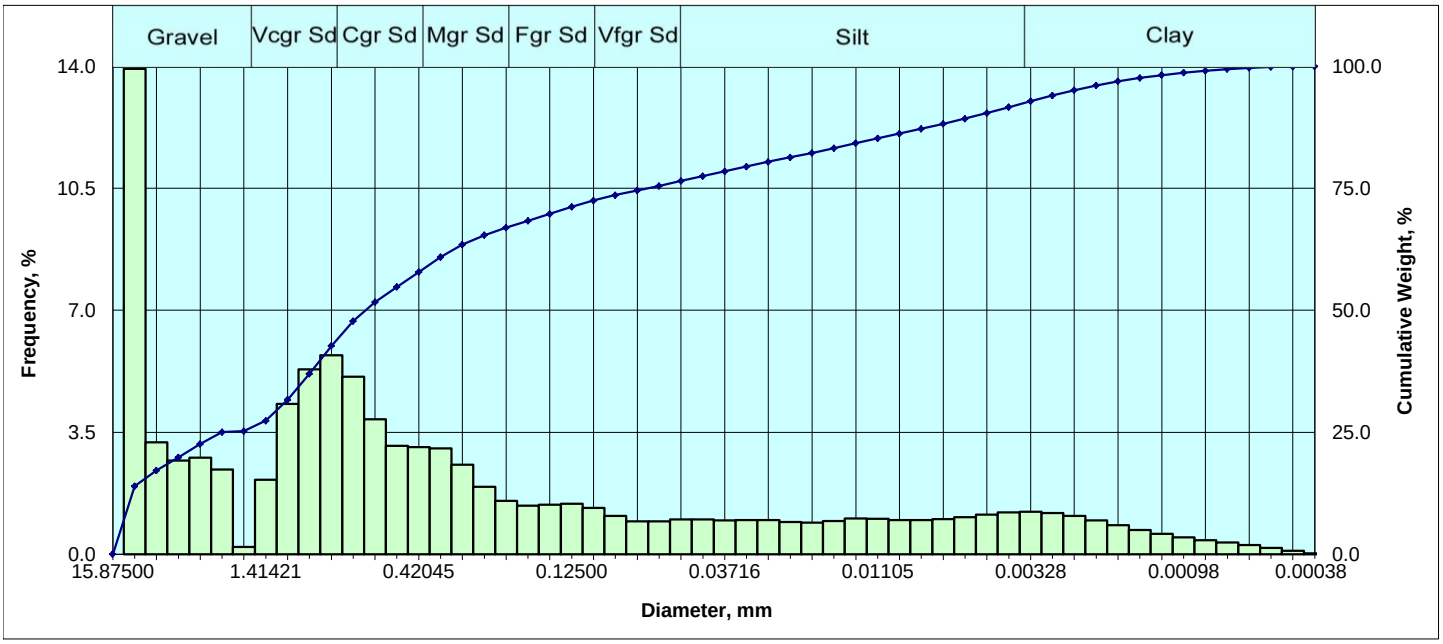
Percentile [Weight, %]	Particle Diameter [in.]	[mm]	[phi]
5	0.0827	2.1013	-1.0712
10	0.0448	1.1383	-0.1869
16	0.0313	0.7946	0.3316
25	0.0155	0.3940	1.3437
40	0.0034	0.0872	3.5196
50	0.0012	0.0310	5.0098
60	0.0005	0.0129	6.2709
75	0.0002	0.0048	7.6992
84	0.0001	0.0030	8.4019
90	0.0001	0.0020	8.9593
95	0.0000	0.0012	9.6629

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 04-Behind tennis court

Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	13.931	13.93
	4	0.187008	4.75000	-2.25	3.208	17.14
	6	0.131890	3.35000	-1.75	2.688	19.83
	8	0.092913	2.36000	-1.25	2.775	22.60
	10	0.078740	2.00000	-1.00	2.428	25.03
V Crse Sand	12	0.066212	1.68179	-0.75	0.206	25.23
	14	0.055678	1.41421	-0.50	2.140	27.38
	16	0.046819	1.18921	-0.25	4.313	31.69
	18	0.039370	1.00000	0.00	5.305	36.99
Coarse Sand	20	0.033106	0.84090	0.25	5.709	42.70
	25	0.027839	0.70711	0.50	5.093	47.80
	30	0.023410	0.59460	0.75	3.875	51.67
	35	0.019685	0.50000	1.00	3.112	54.78
Medium Sand	40	0.016553	0.42045	1.25	3.075	57.86
	45	0.013919	0.35355	1.50	3.040	60.90
	50	0.011705	0.29730	1.75	2.565	63.46
	60	0.009843	0.25000	2.00	1.934	65.40
Fine Sand	70	0.008277	0.21022	2.25	1.534	66.93
	80	0.006960	0.17678	2.50	1.397	68.33
	100	0.005852	0.14865	2.75	1.417	69.75
	120	0.004921	0.12500	3.00	1.446	71.19
V. Fine Sand	140	0.004138	0.10511	3.25	1.331	72.52
	170	0.003480	0.08839	3.50	1.096	73.62
	200	0.002926	0.07433	3.75	0.939	74.56
	230	0.002461	0.06250	4.00	0.945	75.50
Silt	270	0.002069	0.05256	4.25	1.002	76.50
	325	0.001740	0.04419	4.50	1.000	77.50
	400	0.001463	0.03716	4.75	0.975	78.48
	450	0.001230	0.03125	5.00	0.984	79.46
	500	0.001035	0.02628	5.25	0.979	80.44
	635	0.000870	0.02210	5.50	0.929	81.37
		0.000732	0.01858	5.75	0.903	82.27
		0.000615	0.01562	6.00	0.955	83.23
		0.000517	0.01314	6.25	1.024	84.25
		0.000435	0.01105	6.50	1.016	85.27
		0.000366	0.00929	6.75	0.980	86.25
		0.000308	0.00781	7.00	0.975	87.22
		0.000259	0.00657	7.25	1.008	88.23
		0.000217	0.00552	7.50	1.066	89.30
		0.000183	0.00465	7.75	1.134	90.43
		0.000154	0.00391	8.00	1.198	91.63
Clay		0.000129	0.00328	8.25	1.218	92.85
		0.000109	0.00276	8.50	1.183	94.03
		0.000091	0.00232	8.75	1.096	95.13
		0.000077	0.00195	9.00	0.972	96.10
		0.000065	0.00164	9.25	0.833	96.93
		0.000054	0.00138	9.50	0.698	97.63
		0.000046	0.00116	9.75	0.581	98.21
		0.000038	0.00098	10.00	0.484	98.70
		0.000032	0.00082	10.25	0.406	99.10
		0.000027	0.00069	10.50	0.332	99.44
		0.000023	0.00058	10.75	0.260	99.70
		0.000019	0.00049	11.00	0.183	99.88
		0.000016	0.00041	11.25	0.098	99.98
		0.000015	0.00038	11.50	0.024	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Coarse sand sized		
(in)	0.0253	0.0253	0.0253
(mm)	0.6431	0.6431	0.6431
Mean	Medium sand sized		
(in)	0.0408	0.0117	0.0151
(mm)	1.0365	0.2975	0.3847
Sorting	Extremely poor		
	5.398	4.435	4.109
Skewness	Finely skewed		
	0.577	0.415	0.273
Kurtosis	Mesokurtic		
	0.086	0.407	1.052

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
25.03	50.47	16.13	8.37	24.50

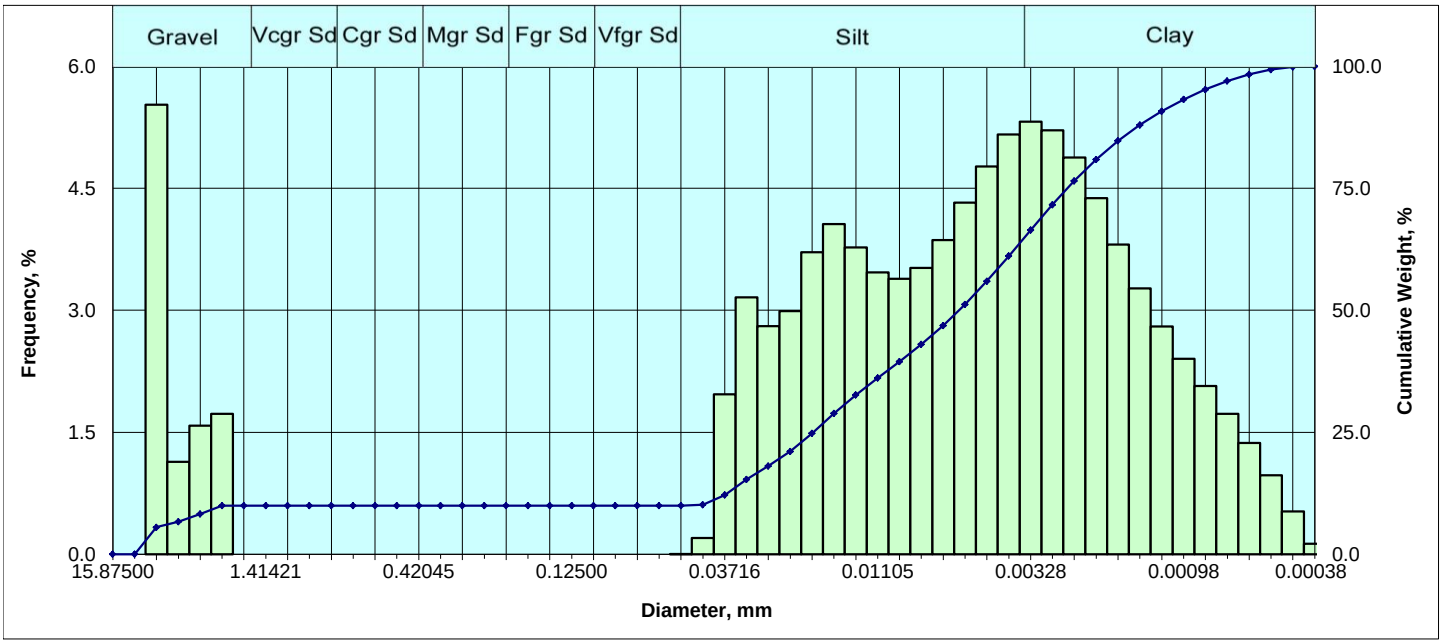
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.5349	13.5869	-3.7641
10	0.4448	11.2988	-3.4981
16	0.2534	6.4360	-2.6862
25	0.0789	2.0043	-1.0031
40	0.0361	0.9162	0.1263
50	0.0253	0.6431	0.6369
60	0.0147	0.3733	1.4215
75	0.0027	0.0688	3.8618
84	0.0005	0.0138	6.1841
90	0.0002	0.0050	7.6494
95	0.0001	0.0024	8.7183

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 05-Soccer 2

Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	5.528	5.53
	6	0.131890	3.35000	-1.75	1.135	6.66
	8	0.092913	2.36000	-1.25	1.579	8.24
	10	0.078740	2.00000	-1.00	1.728	9.97
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	9.97
	14	0.055678	1.41421	-0.50	0.000	9.97
	16	0.046819	1.18921	-0.25	0.000	9.97
	18	0.039370	1.00000	0.00	0.000	9.97
Coarse Sand	20	0.033106	0.84090	0.25	0.000	9.97
	25	0.027839	0.70711	0.50	0.000	9.97
	30	0.023410	0.59460	0.75	0.000	9.97
	35	0.019685	0.50000	1.00	0.000	9.97
Medium Sand	40	0.016553	0.42045	1.25	0.000	9.97
	45	0.013919	0.35355	1.50	0.000	9.97
	50	0.011705	0.29730	1.75	0.000	9.97
	60	0.009843	0.25000	2.00	0.000	9.97
Fine Sand	70	0.008277	0.21022	2.25	0.000	9.97
	80	0.006960	0.17678	2.50	0.000	9.97
	100	0.005852	0.14865	2.75	0.000	9.97
	120	0.004921	0.12500	3.00	0.000	9.97
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	9.97
	170	0.003480	0.08839	3.50	0.000	9.97
	200	0.002926	0.07433	3.75	0.000	9.97
	230	0.002461	0.06250	4.00	0.000	9.97
Silt	270	0.002069	0.05256	4.25	0.000	9.97
	325	0.001740	0.04419	4.50	0.201	10.17
	400	0.001463	0.03716	4.75	1.967	12.14
	450	0.001230	0.03125	5.00	3.160	15.30
	500	0.001035	0.02628	5.25	2.803	18.10
	635	0.000870	0.02210	5.50	2.989	21.09
		0.000732	0.01858	5.75	3.716	24.81
		0.000615	0.01562	6.00	4.060	28.87
		0.000517	0.01314	6.25	3.772	32.64
		0.000435	0.01105	6.50	3.467	36.11
		0.000366	0.00929	6.75	3.389	39.49
		0.000308	0.00781	7.00	3.522	43.02
		0.000259	0.00657	7.25	3.864	46.88
		0.000217	0.00552	7.50	4.323	51.20
		0.000183	0.00465	7.75	4.768	55.97
		0.000154	0.00391	8.00	5.161	61.13
Clay		0.000129	0.00328	8.25	5.320	66.45
		0.000109	0.00276	8.50	5.214	71.67
		0.000091	0.00232	8.75	4.878	76.54
		0.000077	0.00195	9.00	4.379	80.92
		0.000065	0.00164	9.25	3.810	84.73
		0.000054	0.00138	9.50	3.270	88.00
		0.000046	0.00116	9.75	2.802	90.81
		0.000038	0.00098	10.00	2.406	93.21
		0.000032	0.00082	10.25	2.069	95.28
		0.000027	0.00069	10.50	1.728	97.01
		0.000023	0.00058	10.75	1.368	98.38
		0.000019	0.00049	11.00	0.971	99.35
		0.000016	0.00041	11.25	0.524	99.87
		0.000015	0.00038	11.50	0.129	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0058	0.0058	0.0058
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0105	0.0071	0.0067
Sorting	Very poor		
	2.737	2.070	2.943
Skewness	Strongly coarse skewed		
	1.159	-1.695	-0.351
Kurtosis	Very leptokurtic		
	0.159	2.042	1.777

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
9.97	0.00	51.16	38.87	90.03

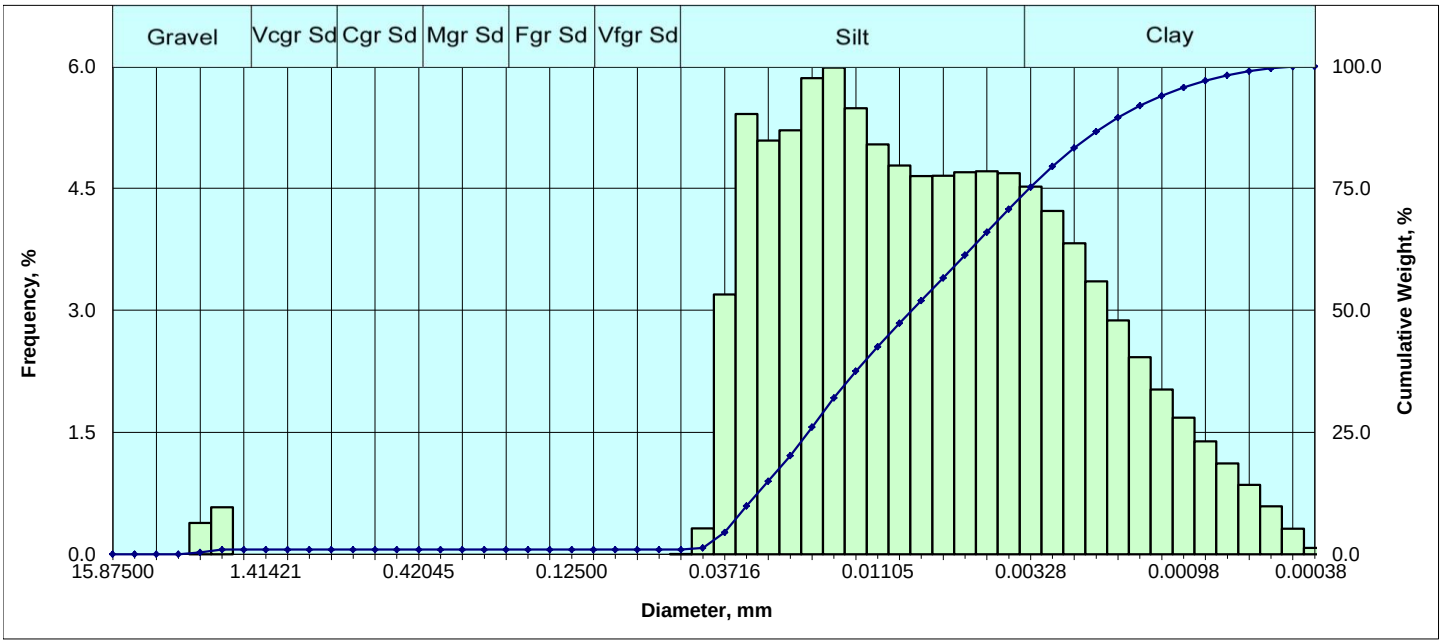
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.2049	5.2038	-2.3796
10	0.0020	0.0513	4.2839
16	0.0012	0.0300	5.0586
25	0.0007	0.0184	5.7610
40	0.0004	0.0091	6.7833
50	0.0002	0.0058	7.4260
60	0.0002	0.0041	7.9413
75	0.0001	0.0025	8.6661
84	0.0001	0.0017	9.1984
90	0.0000	0.0012	9.6736
95	0.0000	0.0008	10.2136

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 06-Soccer 2

Sieve and Laser Particle Size Analysis



Particle Size Distribution

	Diameter [US Mesh]	[in.]	[mm]	[ϕ]	Weight % [Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.384	0.38
	10	0.078740	2.00000	-1.00	0.575	0.96
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.96
	14	0.055678	1.41421	-0.50	0.000	0.96
	16	0.046819	1.18921	-0.25	0.000	0.96
	18	0.039370	1.00000	0.00	0.000	0.96
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.96
	25	0.027839	0.70711	0.50	0.000	0.96
	30	0.023410	0.59460	0.75	0.000	0.96
	35	0.019685	0.50000	1.00	0.000	0.96
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.96
	45	0.013919	0.35355	1.50	0.000	0.96
	50	0.011705	0.29730	1.75	0.000	0.96
	60	0.009843	0.25000	2.00	0.000	0.96
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.96
	80	0.006960	0.17678	2.50	0.000	0.96
	100	0.005852	0.14865	2.75	0.000	0.96
	120	0.004921	0.12500	3.00	0.000	0.96
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.96
	170	0.003480	0.08839	3.50	0.000	0.96
	200	0.002926	0.07433	3.75	0.000	0.96
	230	0.002461	0.06250	4.00	0.000	0.96
Silt	270	0.002069	0.05256	4.25	0.001	0.96
	325	0.001740	0.04419	4.50	0.319	1.28
	400	0.001463	0.03716	4.75	3.195	4.47
	450	0.001230	0.03125	5.00	5.413	9.89
	500	0.001035	0.02628	5.25	5.087	14.97
	635	0.000870	0.02210	5.50	5.214	20.19
		0.000732	0.01858	5.75	5.855	26.04
		0.000615	0.01562	6.00	5.984	32.03
		0.000517	0.01314	6.25	5.485	37.51
		0.000435	0.01105	6.50	5.042	42.55
		0.000366	0.00929	6.75	4.783	47.34
		0.000308	0.00781	7.00	4.652	51.99
		0.000259	0.00657	7.25	4.653	56.64
		0.000217	0.00552	7.50	4.698	61.34
		0.000183	0.00465	7.75	4.710	66.05
		0.000154	0.00391	8.00	4.687	70.74
Clay		0.000129	0.00328	8.25	4.521	75.26
		0.000109	0.00276	8.50	4.223	79.48
		0.000091	0.00232	8.75	3.824	83.30
		0.000077	0.00195	9.00	3.357	86.66
		0.000065	0.00164	9.25	2.876	89.54
		0.000054	0.00138	9.50	2.425	91.96
		0.000046	0.00116	9.75	2.024	93.99
		0.000038	0.00098	10.00	1.681	95.67
		0.000032	0.00082	10.25	1.387	97.05
		0.000027	0.00069	10.50	1.115	98.17
		0.000023	0.00058	10.75	0.853	99.02
		0.000019	0.00049	11.00	0.589	99.61
		0.000016	0.00041	11.25	0.313	99.92
		0.000015	0.00038	11.50	0.076	100.00

Sorting Statistics (Folk)

Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0084	0.0084	0.0084
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0113	0.0076	0.0078
Sorting	Poor		
	2.405	1.751	1.652
Skewness	Finely skewed		
	0.946	0.255	0.133
Kurtosis	Platykurtic		
	0.269	0.463	0.829

Component Percentages

Gravel	Sand	Silt	Clay	Silt + Clay
0.96	0.00	69.78	29.26	99.04

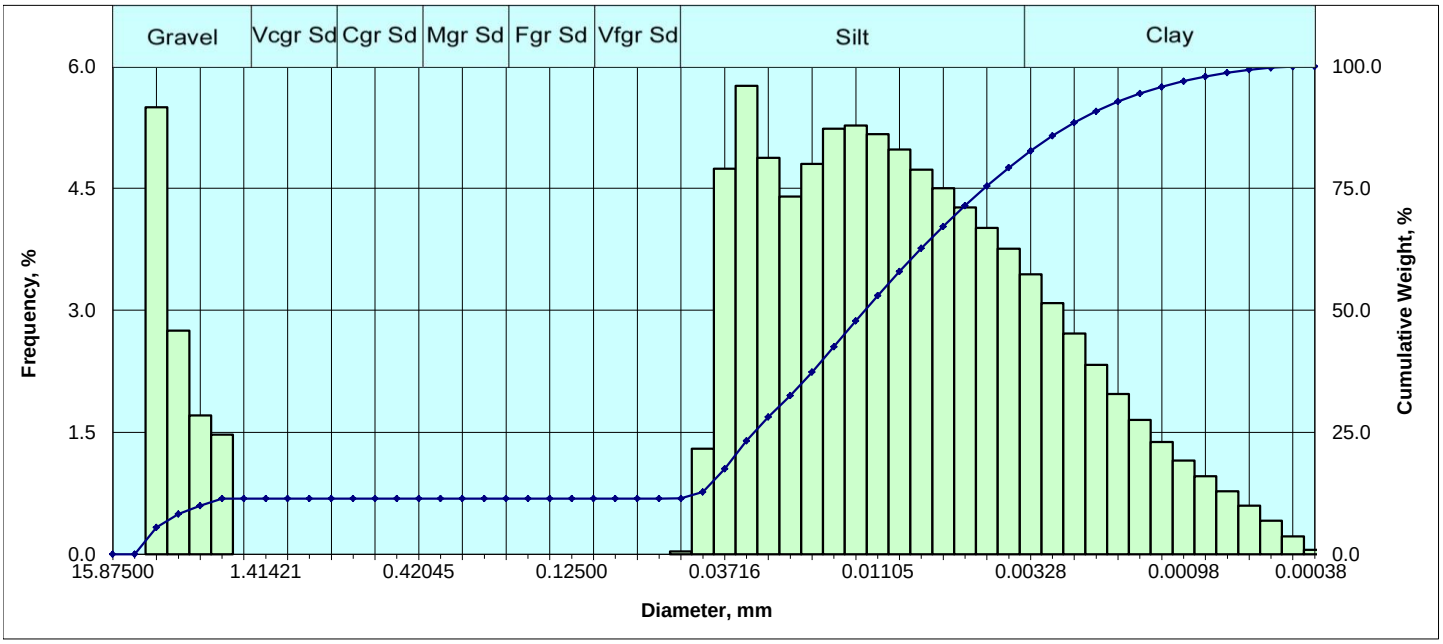
Percentile [Weight, %]	Particle Diameter [in.]	[mm]	[phi]
5	0.0014	0.0366	4.7725
10	0.0012	0.0311	5.0051
16	0.0010	0.0255	5.2959
25	0.0008	0.0192	5.7022
40	0.0005	0.0121	6.3680
50	0.0003	0.0084	6.8878
60	0.0002	0.0058	7.4242
75	0.0001	0.0033	8.2346
84	0.0001	0.0022	8.7984
90	0.0001	0.0016	9.2945
95	0.0000	0.0010	9.8956

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 07-Soccer 2

Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	5.498	5.50
	6	0.131890	3.35000	-1.75	2.749	8.25
	8	0.092913	2.36000	-1.25	1.706	9.95
	10	0.078740	2.00000	-1.00	1.469	11.42
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	11.42
	14	0.055678	1.41421	-0.50	0.000	11.42
	16	0.046819	1.18921	-0.25	0.000	11.42
	18	0.039370	1.00000	0.00	0.000	11.42
Coarse Sand	20	0.033106	0.84090	0.25	0.000	11.42
	25	0.027839	0.70711	0.50	0.000	11.42
	30	0.023410	0.59460	0.75	0.000	11.42
	35	0.019685	0.50000	1.00	0.000	11.42
Medium Sand	40	0.016553	0.42045	1.25	0.000	11.42
	45	0.013919	0.35355	1.50	0.000	11.42
	50	0.011705	0.29730	1.75	0.000	11.42
	60	0.009843	0.25000	2.00	0.000	11.42
Fine Sand	70	0.008277	0.21022	2.25	0.000	11.42
	80	0.006960	0.17678	2.50	0.000	11.42
	100	0.005852	0.14865	2.75	0.000	11.42
	120	0.004921	0.12500	3.00	0.000	11.42
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	11.42
	170	0.003480	0.08839	3.50	0.000	11.42
	200	0.002926	0.07433	3.75	0.000	11.42
	230	0.002461	0.06250	4.00	0.000	11.42
Silt	270	0.002069	0.05256	4.25	0.033	11.45
	325	0.001740	0.04419	4.50	1.298	12.75
	400	0.001463	0.03716	4.75	4.743	17.50
	450	0.001230	0.03125	5.00	5.760	23.26
	500	0.001035	0.02628	5.25	4.875	28.13
	635	0.000870	0.02210	5.50	4.399	32.53
		0.000732	0.01858	5.75	4.799	37.33
		0.000615	0.01562	6.00	5.232	42.56
		0.000517	0.01314	6.25	5.274	47.83
		0.000435	0.01105	6.50	5.168	53.00
		0.000366	0.00929	6.75	4.977	57.98
		0.000308	0.00781	7.00	4.729	62.71
		0.000259	0.00657	7.25	4.500	67.21
		0.000217	0.00552	7.50	4.267	71.47
		0.000183	0.00465	7.75	4.015	75.49
		0.000154	0.00391	8.00	3.758	79.25
Clay		0.000129	0.00328	8.25	3.444	82.69
		0.000109	0.00276	8.50	3.090	85.78
		0.000091	0.00232	8.75	2.713	88.49
		0.000077	0.00195	9.00	2.331	90.83
		0.000065	0.00164	9.25	1.971	92.80
		0.000054	0.00138	9.50	1.652	94.45
		0.000046	0.00116	9.75	1.381	95.83
		0.000038	0.00098	10.00	1.152	96.98
		0.000032	0.00082	10.25	0.958	97.94
		0.000027	0.00069	10.50	0.776	98.72
		0.000023	0.00058	10.75	0.597	99.31
		0.000019	0.00049	11.00	0.414	99.73
		0.000016	0.00041	11.25	0.220	99.95
		0.000015	0.00038	11.50	0.054	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0005	0.0005	0.0005
(mm)	0.0123	0.0123	0.0123
Mean	Silt sized		
(in)	0.0007	0.0004	0.0004
(mm)	0.0171	0.0110	0.0114
Sorting	Very poor		
	2.490	1.842	2.734
Skewness	Coarse skewed		
	0.965	-1.487	-0.186
Kurtosis	Very leptokurtic		
	0.005	2.248	1.863

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
11.42	0.00	67.83	20.75	88.58

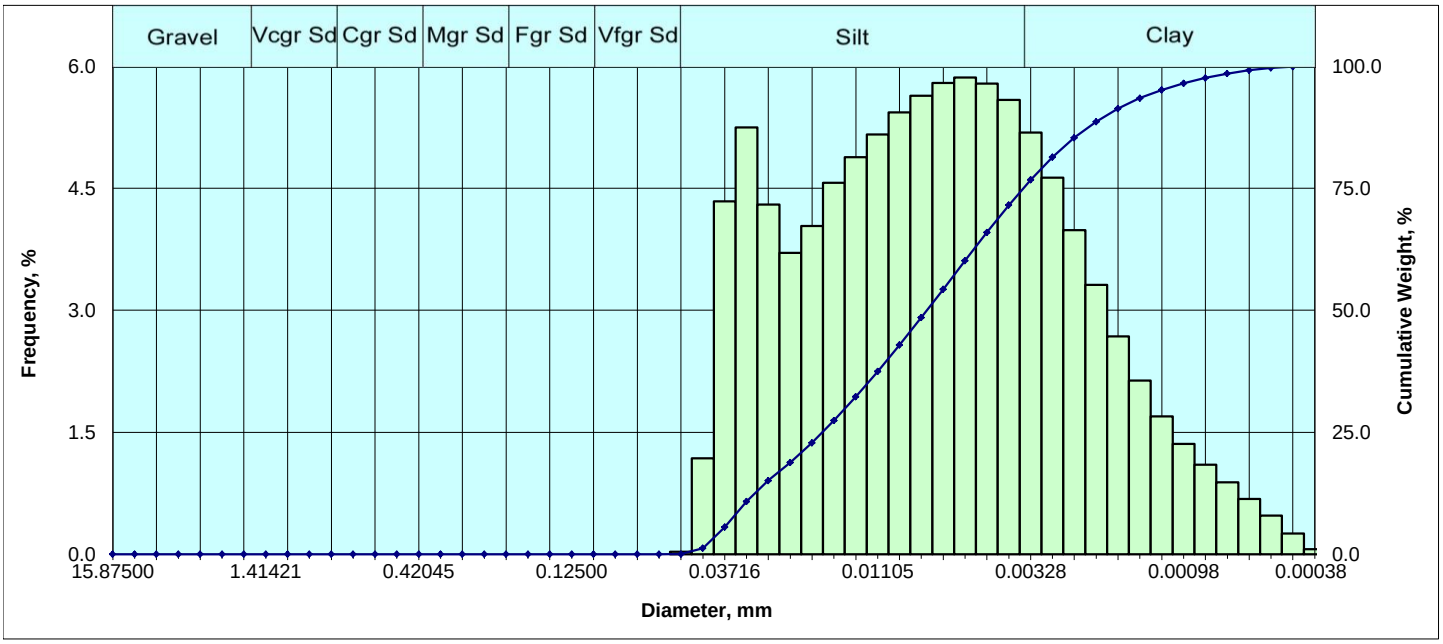
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.2039	5.1800	-2.3729
10	0.0925	2.3484	-1.2317
16	0.0016	0.0394	4.6664
25	0.0012	0.0295	5.0846
40	0.0007	0.0171	5.8723
50	0.0005	0.0123	6.3496
60	0.0003	0.0087	6.8516
75	0.0002	0.0048	7.7171
84	0.0001	0.0031	8.3507
90	0.0001	0.0021	8.9065
95	0.0001	0.0013	9.5947

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 08-Soccer 2

Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.00
	45	0.013919	0.35355	1.50	0.000	0.00
	50	0.011705	0.29730	1.75	0.000	0.00
	60	0.009843	0.25000	2.00	0.000	0.00
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.00
	80	0.006960	0.17678	2.50	0.000	0.00
	100	0.005852	0.14865	2.75	0.000	0.00
	120	0.004921	0.12500	3.00	0.000	0.00
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.00
	170	0.003480	0.08839	3.50	0.000	0.00
	200	0.002926	0.07433	3.75	0.000	0.00
	230	0.002461	0.06250	4.00	0.000	0.00
Silt	270	0.002069	0.05256	4.25	0.030	0.03
	325	0.001740	0.04419	4.50	1.181	1.21
	400	0.001463	0.03716	4.75	4.339	5.55
	450	0.001230	0.03125	5.00	5.248	10.80
	500	0.001035	0.02628	5.25	4.302	15.10
	635	0.000870	0.02210	5.50	3.708	18.81
		0.000732	0.01858	5.75	4.036	22.84
		0.000615	0.01562	6.00	4.570	27.41
		0.000517	0.01314	6.25	4.882	32.30
		0.000435	0.01105	6.50	5.161	37.46
		0.000366	0.00929	6.75	5.432	42.89
		0.000308	0.00781	7.00	5.638	48.53
		0.000259	0.00657	7.25	5.796	54.32
		0.000217	0.00552	7.50	5.862	60.19
		0.000183	0.00465	7.75	5.790	65.98
		0.000154	0.00391	8.00	5.589	71.56
Clay		0.000129	0.00328	8.25	5.185	76.75
		0.000109	0.00276	8.50	4.630	81.38
		0.000091	0.00232	8.75	3.985	85.37
		0.000077	0.00195	9.00	3.312	88.68
		0.000065	0.00164	9.25	2.680	91.36
		0.000054	0.00138	9.50	2.136	93.49
		0.000046	0.00116	9.75	1.695	95.19
		0.000038	0.00098	10.00	1.358	96.55
		0.000032	0.00082	10.25	1.101	97.65
		0.000027	0.00069	10.50	0.883	98.53
		0.000023	0.00058	10.75	0.679	99.21
		0.000019	0.00049	11.00	0.473	99.68
		0.000016	0.00041	11.25	0.254	99.94
		0.000015	0.00038	11.50	0.062	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0075	0.0075	0.0075
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0103	0.0079	0.0078
Sorting	Poor		
	2.218	1.676	1.596
Skewness	Near symmetrical		
	1.034	0.094	0.009
Kurtosis	Platykurtic		
	0.226	0.493	0.892

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	0.00	71.56	28.44	100.00

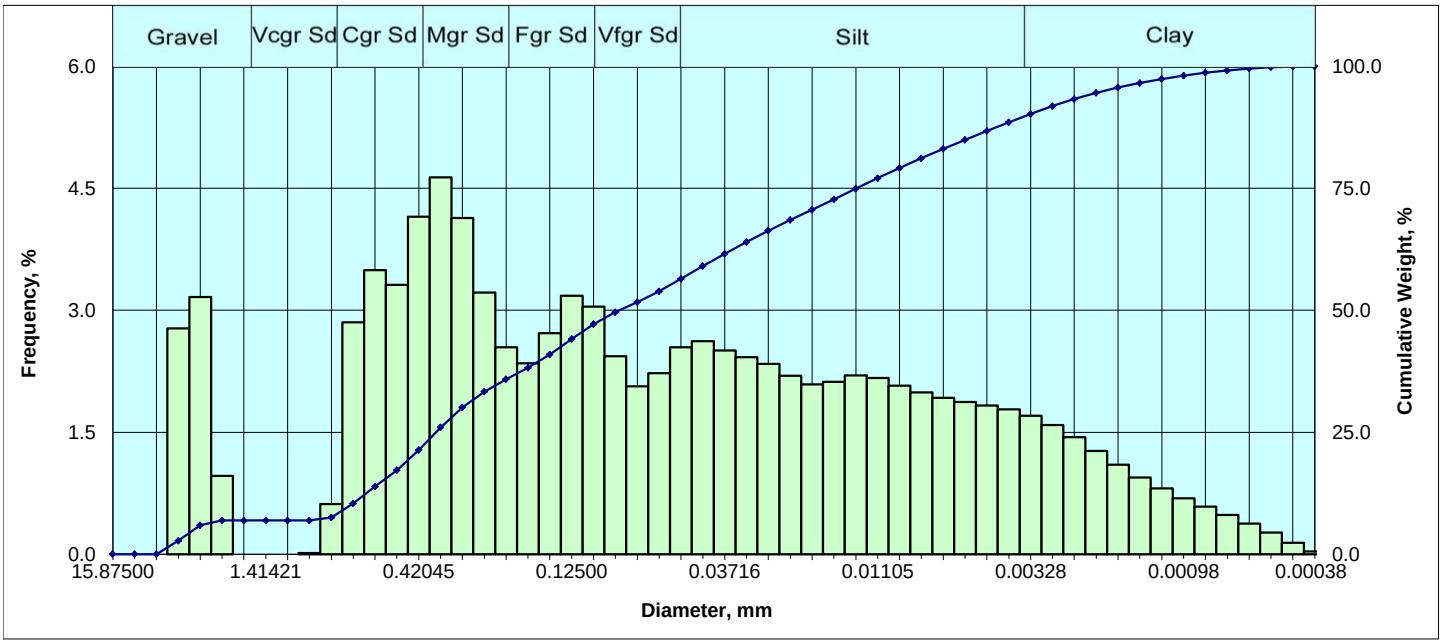
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0015	0.0381	4.7158
10	0.0013	0.0321	4.9591
16	0.0010	0.0253	5.3068
25	0.0007	0.0172	5.8626
40	0.0004	0.0102	6.6116
50	0.0003	0.0075	7.0595
60	0.0002	0.0056	7.4914
75	0.0001	0.0035	8.1607
84	0.0001	0.0025	8.6593
90	0.0001	0.0018	9.1179
95	0.0000	0.0012	9.7197

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 09-Baseball 2

Sieve and Laser Particle Size Analysis



Particle Size Distribution	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	2.777	2.78
	8	0.092913	2.36000	-1.25	3.162	5.94
	10	0.078740	2.00000	-1.00	0.964	6.90
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	6.90
	14	0.055678	1.41421	-0.50	0.000	6.90
	16	0.046819	1.18921	-0.25	0.000	6.90
	18	0.039370	1.00000	0.00	0.014	6.92
Coarse Sand	20	0.033106	0.84090	0.25	0.616	7.53
	25	0.027839	0.70711	0.50	2.853	10.39
	30	0.023410	0.59460	0.75	3.495	13.88
	35	0.019685	0.50000	1.00	3.312	17.19
Medium Sand	40	0.016553	0.42045	1.25	4.151	21.34
	45	0.013919	0.35355	1.50	4.634	25.98
	50	0.011705	0.29730	1.75	4.136	30.11
	60	0.009843	0.25000	2.00	3.219	33.33
Fine Sand	70	0.008277	0.21022	2.25	2.545	35.88
	80	0.006960	0.17678	2.50	2.349	38.23
	100	0.005852	0.14865	2.75	2.718	40.95
	120	0.004921	0.12500	3.00	3.178	44.12
V. Fine Sand	140	0.004138	0.10511	3.25	3.047	47.17
	170	0.003480	0.08839	3.50	2.435	49.61
	200	0.002926	0.07433	3.75	2.067	51.67
	230	0.002461	0.06250	4.00	2.225	53.90
Silt	270	0.002069	0.05256	4.25	2.544	56.44
	325	0.001740	0.04419	4.50	2.620	59.06
	400	0.001463	0.03716	4.75	2.504	61.56
	450	0.001230	0.03125	5.00	2.425	63.99
	500	0.001035	0.02628	5.25	2.342	66.33
	635	0.000870	0.02210	5.50	2.194	68.52
		0.000732	0.01858	5.75	2.089	70.61
		0.000615	0.01562	6.00	2.120	72.73
		0.000517	0.01314	6.25	2.199	74.93
		0.000435	0.01105	6.50	2.166	77.10
		0.000366	0.00929	6.75	2.074	79.17
		0.000308	0.00781	7.00	1.989	81.16
		0.000259	0.00657	7.25	1.922	83.08
		0.000217	0.00552	7.50	1.871	84.96
		0.000183	0.00465	7.75	1.828	86.78
		0.000154	0.00391	8.00	1.783	88.57
Clay		0.000129	0.00328	8.25	1.704	90.27
		0.000109	0.00276	8.50	1.588	91.86
		0.000091	0.00232	8.75	1.439	93.30
		0.000077	0.00195	9.00	1.272	94.57
		0.000065	0.00164	9.25	1.101	95.67
		0.000054	0.00138	9.50	0.944	96.61
		0.000046	0.00116	9.75	0.808	97.42
		0.000038	0.00098	10.00	0.689	98.11
		0.000032	0.00082	10.25	0.586	98.70
		0.000027	0.00069	10.50	0.484	99.18
		0.000023	0.00058	10.75	0.377	99.56
		0.000019	0.00049	11.00	0.265	99.82
		0.000016	0.00041	11.25	0.142	99.97
		0.000015	0.00038	11.50	0.035	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Very fine sand sized		
(in)	0.0034	0.0034	0.0034
(mm)	0.0857	0.0857	0.0857
Mean	Very fine sand sized		
(in)	0.0075	0.0022	0.0026
(mm)	0.1904	0.0569	0.0652
Sorting	Very poor		
	5.303	3.231	3.207
Skewness	Finely skewed		
	0.809	0.092	0.120
Kurtosis	Platykurtic		
	0.246	0.625	0.894

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
6.90	46.99	34.67	11.43	46.10

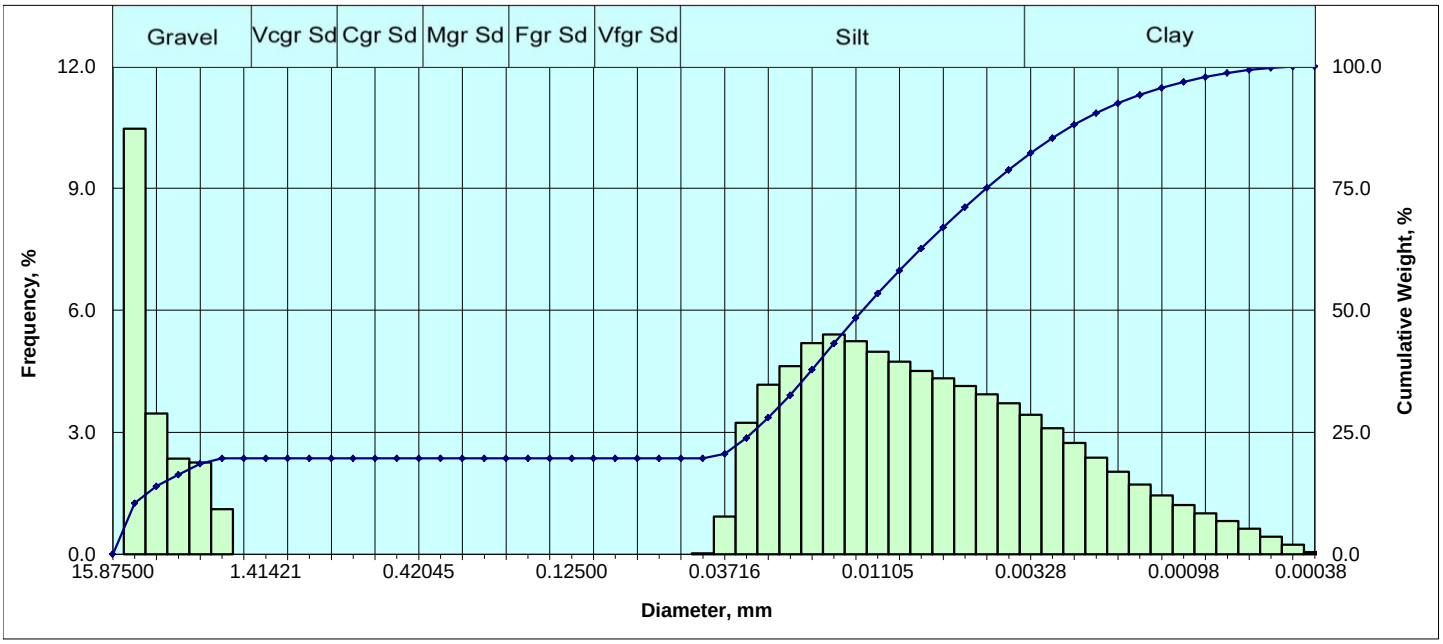
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.1045	2.6540	-1.4082
10	0.0286	0.7252	0.4635
16	0.0210	0.5341	0.9048
25	0.0145	0.3677	1.4435
40	0.0062	0.1584	2.6581
50	0.0034	0.0857	3.5445
60	0.0016	0.0416	4.5888
75	0.0005	0.0131	6.2572
84	0.0002	0.0061	7.3669
90	0.0001	0.0034	8.2073
95	0.0001	0.0018	9.0927

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 10-Baseball 1

Sieve and Laser Particle Size Analysis



Particle Size Distribution

	Diameter [US Mesh]	[in.]	[mm]	[ϕ]	Weight % [Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	10.470	10.47
	4	0.187008	4.75000	-2.25	3.459	13.93
	6	0.131890	3.35000	-1.75	2.352	16.28
	8	0.092913	2.36000	-1.25	2.260	18.54
	10	0.078740	2.00000	-1.00	1.107	19.65
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	19.65
	14	0.055678	1.41421	-0.50	0.000	19.65
	16	0.046819	1.18921	-0.25	0.000	19.65
	18	0.039370	1.00000	0.00	0.000	19.65
Coarse Sand	20	0.033106	0.84090	0.25	0.000	19.65
	25	0.027839	0.70711	0.50	0.000	19.65
	30	0.023410	0.59460	0.75	0.000	19.65
	35	0.019685	0.50000	1.00	0.000	19.65
Medium Sand	40	0.016553	0.42045	1.25	0.000	19.65
	45	0.013919	0.35355	1.50	0.000	19.65
	50	0.011705	0.29730	1.75	0.000	19.65
	60	0.009843	0.25000	2.00	0.000	19.65
Fine Sand	70	0.008277	0.21022	2.25	0.000	19.65
	80	0.006960	0.17678	2.50	0.000	19.65
	100	0.005852	0.14865	2.75	0.000	19.65
	120	0.004921	0.12500	3.00	0.000	19.65
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	19.65
	170	0.003480	0.08839	3.50	0.000	19.65
	200	0.002926	0.07433	3.75	0.000	19.65
	230	0.002461	0.06250	4.00	0.000	19.65
Silt	270	0.002069	0.05256	4.25	0.000	19.65
	325	0.001740	0.04419	4.50	0.021	19.67
	400	0.001463	0.03716	4.75	0.923	20.59
	450	0.001230	0.03125	5.00	3.234	23.83
	500	0.001035	0.02628	5.25	4.167	28.00
	635	0.000870	0.02210	5.50	4.626	32.62
		0.000732	0.01858	5.75	5.195	37.82
		0.000615	0.01562	6.00	5.409	43.22
		0.000517	0.01314	6.25	5.241	48.47
		0.000435	0.01105	6.50	4.982	53.45
		0.000366	0.00929	6.75	4.734	58.18
		0.000308	0.00781	7.00	4.510	62.69
		0.000259	0.00657	7.25	4.324	67.01
		0.000217	0.00552	7.50	4.139	71.15
		0.000183	0.00465	7.75	3.934	75.09
		0.000154	0.00391	8.00	3.712	78.80
Clay		0.000129	0.00328	8.25	3.427	82.23
		0.000109	0.00276	8.50	3.097	85.32
		0.000091	0.00232	8.75	2.739	88.06
		0.000077	0.00195	9.00	2.374	90.44
		0.000065	0.00164	9.25	2.027	92.46
		0.000054	0.00138	9.50	1.715	94.18
		0.000046	0.00116	9.75	1.444	95.62
		0.000038	0.00098	10.00	1.211	96.83
		0.000032	0.00082	10.25	1.008	97.84
		0.000027	0.00069	10.50	0.816	98.66
		0.000023	0.00058	10.75	0.626	99.28
		0.000019	0.00049	11.00	0.433	99.71
		0.000016	0.00041	11.25	0.230	99.94
		0.000015	0.00038	11.50	0.056	100.00

Sorting Statistics (Folk)

Parameter	Trask	Inman	Folk
Median	**Silt sized**		
(in)	0.0005	0.0005	0.0005
(mm)	0.0125	0.0125	0.0125
Mean	**Silt sized**		
(in)	0.0007	0.0040	0.0020
(mm)	0.0173	0.1025	0.0508
Sorting	**Extremely poor**		
	2.530	5.101	4.569
Skewness	**Strongly coarse skewed**		
	0.944	-0.656	-0.549
Kurtosis	**Very leptokurtic**		
	0.001	0.305	2.038

Component Percentages

Gravel	Sand	Silt	Clay	Silt + Clay
19.65	0.00	59.15	21.20	80.35

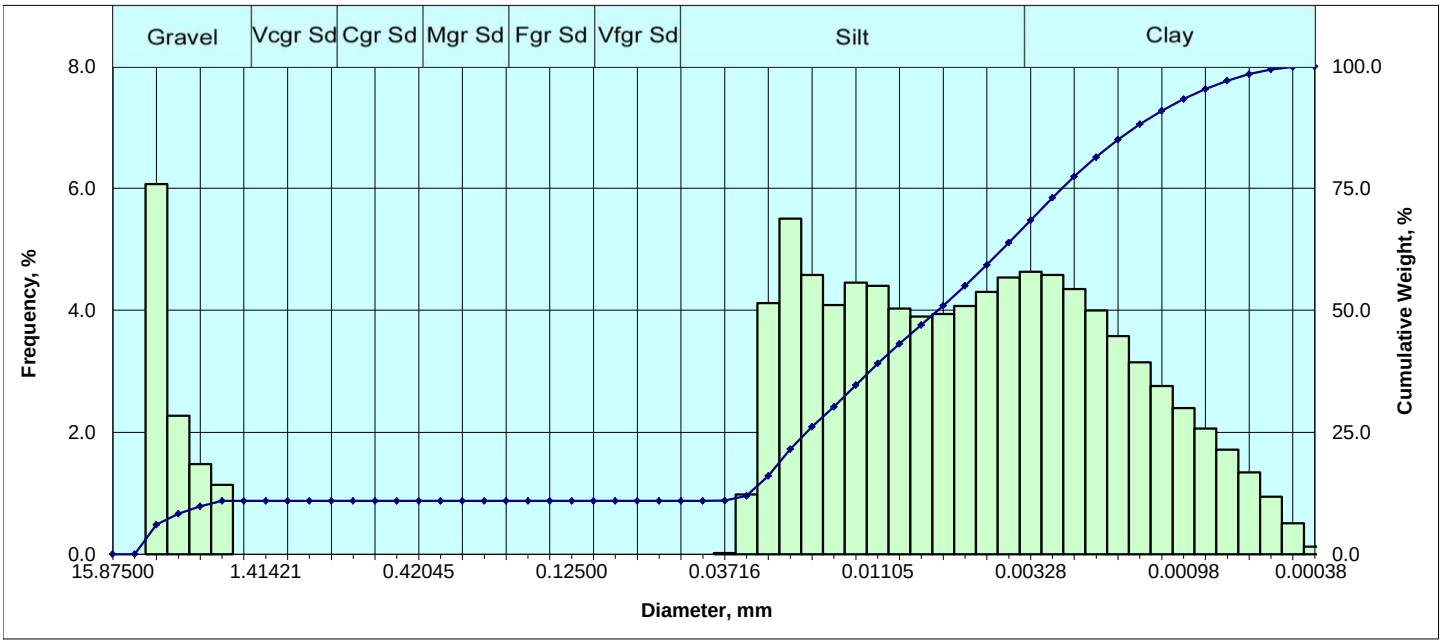
Percentile [Weight, %]	Particle Diameter [in.]	[mm]	[phi]
5	0.5051	12.8307	-3.6815
10	0.3853	9.7865	-3.2908
16	0.1385	3.5180	-1.8148
25	0.0012	0.0299	5.0660
40	0.0007	0.0174	5.8458
50	0.0005	0.0125	6.3225
60	0.0003	0.0087	6.8457
75	0.0002	0.0047	7.7440
84	0.0001	0.0030	8.3879
90	0.0001	0.0020	8.9508
95	0.0000	0.0013	9.6371

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 11-Baseball 2

Sieve and Laser Particle Size Analysis



Particle Size Distribution						
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	6.068	6.07
	6	0.131890	3.35000	-1.75	2.269	8.34
	8	0.092913	2.36000	-1.25	1.480	9.82
	10	0.078740	2.00000	-1.00	1.135	10.95
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	10.95
	14	0.055678	1.41421	-0.50	0.000	10.95
	16	0.046819	1.18921	-0.25	0.000	10.95
	18	0.039370	1.00000	0.00	0.000	10.95
Coarse Sand	20	0.033106	0.84090	0.25	0.000	10.95
	25	0.027839	0.70711	0.50	0.000	10.95
	30	0.023410	0.59460	0.75	0.000	10.95
	35	0.019685	0.50000	1.00	0.000	10.95
Medium Sand	40	0.016553	0.42045	1.25	0.000	10.95
	45	0.013919	0.35355	1.50	0.000	10.95
	50	0.011705	0.29730	1.75	0.000	10.95
	60	0.009843	0.25000	2.00	0.000	10.95
Fine Sand	70	0.008277	0.21022	2.25	0.000	10.95
	80	0.006960	0.17678	2.50	0.000	10.95
	100	0.005852	0.14865	2.75	0.000	10.95
	120	0.004921	0.12500	3.00	0.000	10.95
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	10.95
	170	0.003480	0.08839	3.50	0.000	10.95
	200	0.002926	0.07433	3.75	0.000	10.95
	230	0.002461	0.06250	4.00	0.000	10.95
Silt	270	0.002069	0.05256	4.25	0.000	10.95
	325	0.001740	0.04419	4.50	0.000	10.95
	400	0.001463	0.03716	4.75	0.021	10.97
	450	0.001230	0.03125	5.00	0.977	11.95
	500	0.001035	0.02628	5.25	4.116	16.07
	635	0.000870	0.02210	5.50	5.504	21.57
		0.000732	0.01858	5.75	4.579	26.15
		0.000615	0.01562	6.00	4.088	30.24
		0.000517	0.01314	6.25	4.453	34.69
		0.000435	0.01105	6.50	4.404	39.09
		0.000366	0.00929	6.75	4.029	43.12
		0.000308	0.00781	7.00	3.897	47.02
		0.000259	0.00657	7.25	3.937	50.96
		0.000217	0.00552	7.50	4.068	55.03
		0.000183	0.00465	7.75	4.302	59.33
		0.000154	0.00391	8.00	4.535	63.86
Clay		0.000129	0.00328	8.25	4.635	68.50
		0.000109	0.00276	8.50	4.582	73.08
		0.000091	0.00232	8.75	4.350	77.43
		0.000077	0.00195	9.00	3.997	81.43
		0.000065	0.00164	9.25	3.577	85.00
		0.000054	0.00138	9.50	3.148	88.15
		0.000046	0.00116	9.75	2.759	90.91
		0.000038	0.00098	10.00	2.395	93.31
		0.000032	0.00082	10.25	2.060	95.37
		0.000027	0.00069	10.50	1.714	97.08
		0.000023	0.00058	10.75	1.344	98.42
		0.000019	0.00049	11.00	0.945	99.37
		0.000016	0.00041	11.25	0.507	99.88
		0.000015	0.00038	11.50	0.124	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0069	0.0069	0.0069
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0110	0.0068	0.0068
Sorting	Very poor		
	2.753	1.965	2.904
Skewness	Coarse skewed		
	1.029	-1.692	-0.256
Kurtosis	Very leptokurtic		
	0.004	2.228	1.779

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
10.95	0.00	52.91	36.14	89.05

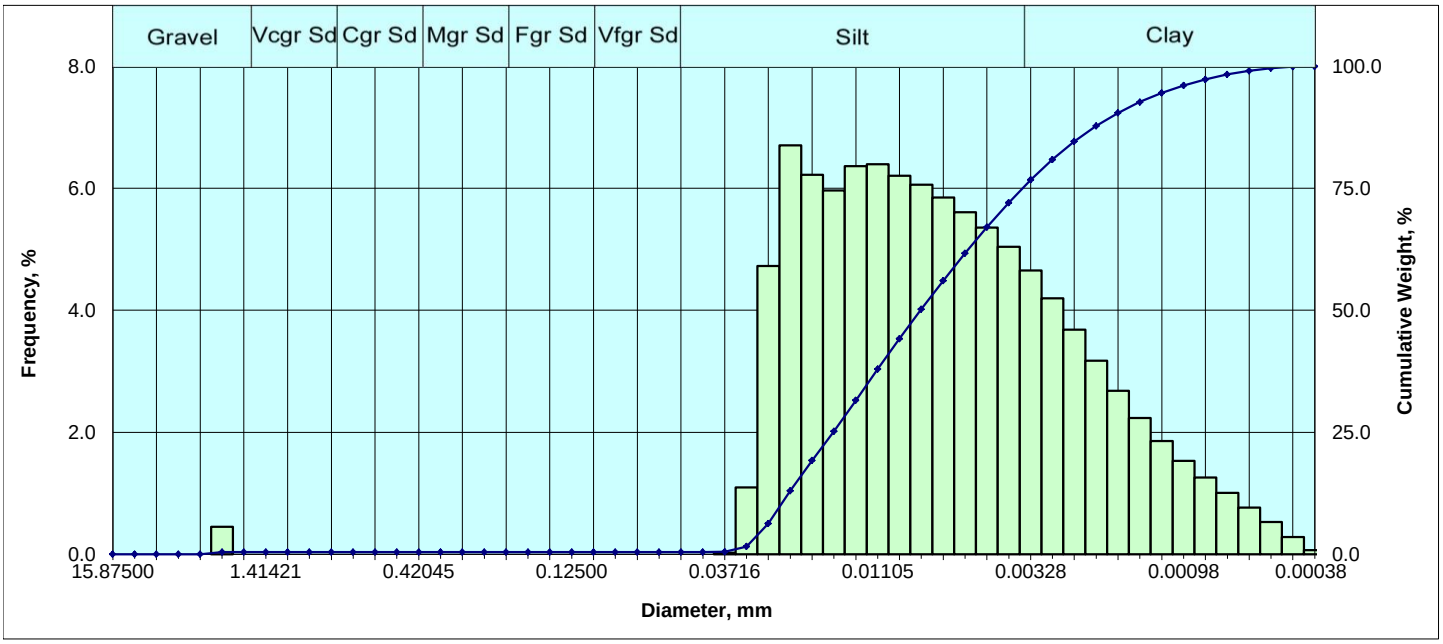
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.2199	5.5861	-2.4818
10	0.0906	2.3021	-1.2029
16	0.0010	0.0264	5.2456
25	0.0008	0.0195	5.6830
40	0.0004	0.0107	6.5525
50	0.0003	0.0069	7.1851
60	0.0002	0.0045	7.7844
75	0.0001	0.0026	8.6050
84	0.0001	0.0017	9.1753
90	0.0000	0.0012	9.6626
95	0.0000	0.0008	10.2023

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 12-Baseball 2

Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.451	0.45
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.45
	14	0.055678	1.41421	-0.50	0.000	0.45
	16	0.046819	1.18921	-0.25	0.000	0.45
	18	0.039370	1.00000	0.00	0.000	0.45
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.45
	25	0.027839	0.70711	0.50	0.000	0.45
	30	0.023410	0.59460	0.75	0.000	0.45
	35	0.019685	0.50000	1.00	0.000	0.45
Medium Sand	40	0.016553	0.42045	1.25	0.000	0.45
	45	0.013919	0.35355	1.50	0.000	0.45
	50	0.011705	0.29730	1.75	0.000	0.45
	60	0.009843	0.25000	2.00	0.000	0.45
Fine Sand	70	0.008277	0.21022	2.25	0.000	0.45
	80	0.006960	0.17678	2.50	0.000	0.45
	100	0.005852	0.14865	2.75	0.000	0.45
	120	0.004921	0.12500	3.00	0.000	0.45
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	0.45
	170	0.003480	0.08839	3.50	0.000	0.45
	200	0.002926	0.07433	3.75	0.000	0.45
	230	0.002461	0.06250	4.00	0.000	0.45
Silt	270	0.002069	0.05256	4.25	0.000	0.45
	325	0.001740	0.04419	4.50	0.000	0.45
	400	0.001463	0.03716	4.75	0.024	0.47
	450	0.001230	0.03125	5.00	1.097	1.57
	500	0.001035	0.02628	5.25	4.726	6.30
	635	0.000870	0.02210	5.50	6.705	13.00
		0.000732	0.01858	5.75	6.224	19.23
		0.000615	0.01562	6.00	5.968	25.19
		0.000517	0.01314	6.25	6.365	31.56
		0.000435	0.01105	6.50	6.398	37.96
		0.000366	0.00929	6.75	6.205	44.16
		0.000308	0.00781	7.00	6.062	50.23
		0.000259	0.00657	7.25	5.851	56.08
		0.000217	0.00552	7.50	5.610	61.69
		0.000183	0.00465	7.75	5.359	67.04
		0.000154	0.00391	8.00	5.041	72.09
Clay		0.000129	0.00328	8.25	4.652	76.74
		0.000109	0.00276	8.50	4.195	80.93
		0.000091	0.00232	8.75	3.685	84.62
		0.000077	0.00195	9.00	3.175	87.79
		0.000065	0.00164	9.25	2.680	90.47
		0.000054	0.00138	9.50	2.236	92.71
		0.000046	0.00116	9.75	1.857	94.56
		0.000038	0.00098	10.00	1.529	96.09
		0.000032	0.00082	10.25	1.258	97.35
		0.000027	0.00069	10.50	1.006	98.36
		0.000023	0.00058	10.75	0.766	99.12
		0.000019	0.00049	11.00	0.528	99.65
		0.000016	0.00041	11.25	0.279	99.93
		0.000015	0.00038	11.50	0.069	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0079	0.0079	0.0079
Mean	Silt sized		
(in)	0.0004	0.0003	0.0003
(mm)	0.0096	0.0070	0.0073
Sorting	Poor		
	2.114	1.545	1.476
Skewness	Finely skewed		
	0.945	0.328	0.164
Kurtosis	Platykurtic		
	0.274	0.502	0.880

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.45	0.00	71.63	27.91	99.55

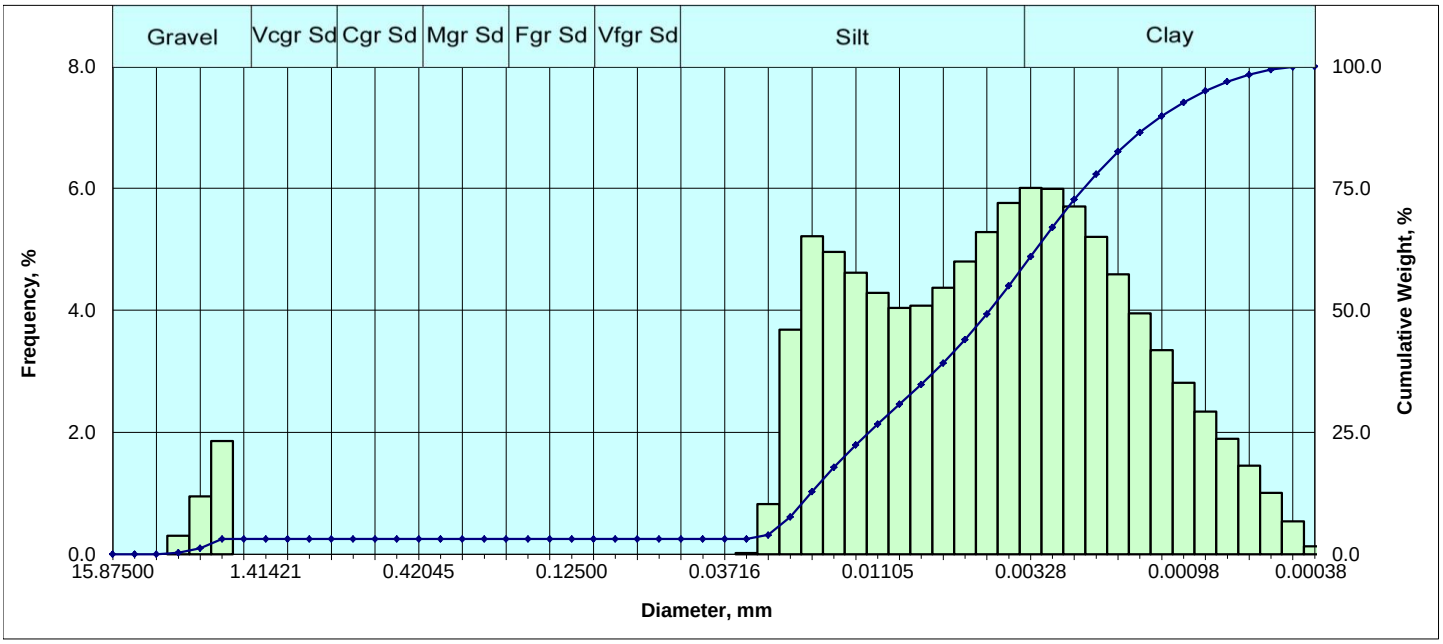
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0011	0.0276	5.1769
10	0.0009	0.0240	5.3826
16	0.0008	0.0204	5.6150
25	0.0006	0.0157	5.9911
40	0.0004	0.0105	6.5776
50	0.0003	0.0079	6.9899
60	0.0002	0.0058	7.4202
75	0.0001	0.0035	8.1515
84	0.0001	0.0024	8.7050
90	0.0001	0.0017	9.2028
95	0.0000	0.0011	9.8170

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 13-Soccer 1

Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.303	0.30
	8	0.092913	2.36000	-1.25	0.951	1.25
	10	0.078740	2.00000	-1.00	1.858	3.11
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	3.11
	14	0.055678	1.41421	-0.50	0.000	3.11
	16	0.046819	1.18921	-0.25	0.000	3.11
	18	0.039370	1.00000	0.00	0.000	3.11
Coarse Sand	20	0.033106	0.84090	0.25	0.000	3.11
	25	0.027839	0.70711	0.50	0.000	3.11
	30	0.023410	0.59460	0.75	0.000	3.11
	35	0.019685	0.50000	1.00	0.000	3.11
Medium Sand	40	0.016553	0.42045	1.25	0.000	3.11
	45	0.013919	0.35355	1.50	0.000	3.11
	50	0.011705	0.29730	1.75	0.000	3.11
	60	0.009843	0.25000	2.00	0.000	3.11
Fine Sand	70	0.008277	0.21022	2.25	0.000	3.11
	80	0.006960	0.17678	2.50	0.000	3.11
	100	0.005852	0.14865	2.75	0.000	3.11
	120	0.004921	0.12500	3.00	0.000	3.11
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	3.11
	170	0.003480	0.08839	3.50	0.000	3.11
	200	0.002926	0.07433	3.75	0.000	3.11
	230	0.002461	0.06250	4.00	0.000	3.11
Silt	270	0.002069	0.05256	4.25	0.000	3.11
	325	0.001740	0.04419	4.50	0.000	3.11
	400	0.001463	0.03716	4.75	0.000	3.11
	450	0.001230	0.03125	5.00	0.017	3.13
	500	0.001035	0.02628	5.25	0.822	3.95
	635	0.000870	0.02210	5.50	3.683	7.63
		0.000732	0.01858	5.75	5.215	12.85
		0.000615	0.01562	6.00	4.958	17.81
		0.000517	0.01314	6.25	4.615	22.42
		0.000435	0.01105	6.50	4.284	26.71
		0.000366	0.00929	6.75	4.041	30.75
		0.000308	0.00781	7.00	4.074	34.82
		0.000259	0.00657	7.25	4.368	39.19
		0.000217	0.00552	7.50	4.799	43.99
		0.000183	0.00465	7.75	5.285	49.27
		0.000154	0.00391	8.00	5.760	55.03
Clay		0.000129	0.00328	8.25	6.009	61.04
		0.000109	0.00276	8.50	5.991	67.03
		0.000091	0.00232	8.75	5.704	72.74
		0.000077	0.00195	9.00	5.206	77.94
		0.000065	0.00164	9.25	4.589	82.53
		0.000054	0.00138	9.50	3.949	86.48
		0.000046	0.00116	9.75	3.349	89.83
		0.000038	0.00098	10.00	2.810	92.64
		0.000032	0.00082	10.25	2.339	94.98
		0.000027	0.00069	10.50	1.892	96.87
		0.000023	0.00058	10.75	1.454	98.32
		0.000019	0.00049	11.00	1.008	99.33
		0.000016	0.00041	11.25	0.537	99.87
		0.000015	0.00038	11.50	0.131	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0046	0.0046	0.0046
Mean	Silt sized		
(in)	0.0003	0.0002	0.0002
(mm)	0.0070	0.0051	0.0049
Sorting	Poor		
	2.344	1.717	1.606
Skewness	Near symmetrical		
	1.113	0.003	-0.045
Kurtosis	Platykurtic		
	0.251	0.437	0.823

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
3.11	0.00	51.92	44.97	96.89

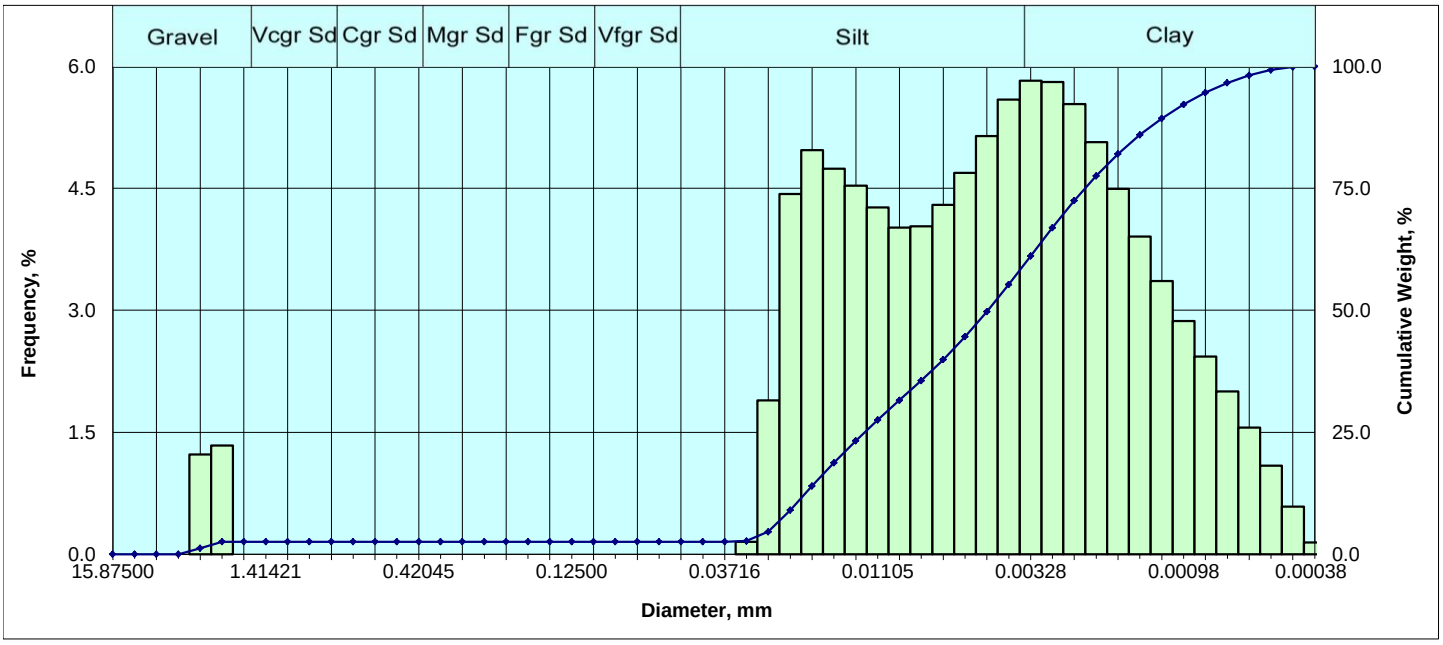
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0010	0.0251	5.3169
10	0.0008	0.0205	5.6081
16	0.0007	0.0167	5.9038
25	0.0005	0.0119	6.3952
40	0.0003	0.0064	7.2893
50	0.0002	0.0046	7.7793
60	0.0001	0.0034	8.2034
75	0.0001	0.0022	8.8534
84	0.0001	0.0015	9.3380
90	0.0000	0.0012	9.7641
95	0.0000	0.0008	10.2528

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 14-Soccer 1

Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.000	0.00
	6	0.131890	3.35000	-1.75	0.000	0.00
	8	0.092913	2.36000	-1.25	1.226	1.23
	10	0.078740	2.00000	-1.00	1.337	2.56
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	2.56
	14	0.055678	1.41421	-0.50	0.000	2.56
	16	0.046819	1.18921	-0.25	0.000	2.56
	18	0.039370	1.00000	0.00	0.000	2.56
Coarse Sand	20	0.033106	0.84090	0.25	0.000	2.56
	25	0.027839	0.70711	0.50	0.000	2.56
	30	0.023410	0.59460	0.75	0.000	2.56
	35	0.019685	0.50000	1.00	0.000	2.56
Medium Sand	40	0.016553	0.42045	1.25	0.000	2.56
	45	0.013919	0.35355	1.50	0.000	2.56
	50	0.011705	0.29730	1.75	0.000	2.56
	60	0.009843	0.25000	2.00	0.000	2.56
Fine Sand	70	0.008277	0.21022	2.25	0.000	2.56
	80	0.006960	0.17678	2.50	0.000	2.56
	100	0.005852	0.14865	2.75	0.000	2.56
	120	0.004921	0.12500	3.00	0.000	2.56
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	2.56
	170	0.003480	0.08839	3.50	0.000	2.56
	200	0.002926	0.07433	3.75	0.000	2.56
	230	0.002461	0.06250	4.00	0.000	2.56
Silt	270	0.002069	0.05256	4.25	0.000	2.56
	325	0.001740	0.04419	4.50	0.000	2.56
	400	0.001463	0.03716	4.75	0.000	2.56
	450	0.001230	0.03125	5.00	0.153	2.72
	500	0.001035	0.02628	5.25	1.893	4.61
	635	0.000870	0.02210	5.50	4.433	9.04
		0.000732	0.01858	5.75	4.969	14.01
		0.000615	0.01562	6.00	4.740	18.75
		0.000517	0.01314	6.25	4.535	23.28
		0.000435	0.01105	6.50	4.265	27.55
		0.000366	0.00929	6.75	4.017	31.57
		0.000308	0.00781	7.00	4.032	35.60
		0.000259	0.00657	7.25	4.295	39.89
		0.000217	0.00552	7.50	4.690	44.58
		0.000183	0.00465	7.75	5.143	49.73
		0.000154	0.00391	8.00	5.590	55.32
Clay		0.000129	0.00328	8.25	5.825	61.14
		0.000109	0.00276	8.50	5.809	66.95
		0.000091	0.00232	8.75	5.538	72.49
		0.000077	0.00195	9.00	5.070	77.56
		0.000065	0.00164	9.25	4.495	82.05
		0.000054	0.00138	9.50	3.905	85.96
		0.000046	0.00116	9.75	3.361	89.32
		0.000038	0.00098	10.00	2.869	92.19
		0.000032	0.00082	10.25	2.433	94.62
		0.000027	0.00069	10.50	2.000	96.62
		0.000023	0.00058	10.75	1.558	98.18
		0.000019	0.00049	11.00	1.091	99.27
		0.000016	0.00041	11.25	0.584	99.86
		0.000015	0.00038	11.50	0.143	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0002	0.0002	0.0002
(mm)	0.0046	0.0046	0.0046
Mean	Silt sized		
(in)	0.0003	0.0002	0.0002
(mm)	0.0072	0.0051	0.0049
Sorting	Poor		
	2.397	1.760	1.641
Skewness	Near symmetrical		
	1.113	0.012	-0.039
Kurtosis	Platykurtic		
	0.250	0.427	0.816

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
2.56	0.00	52.75	44.68	97.44

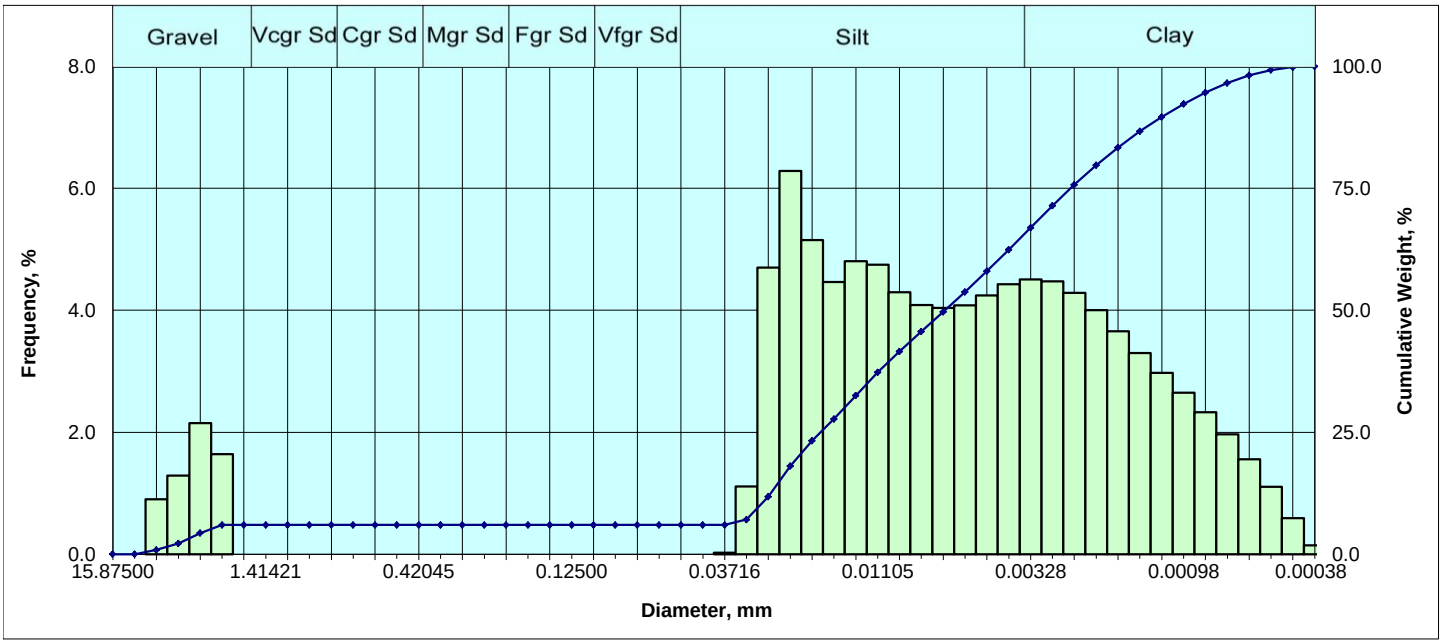
Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0010	0.0259	5.2704
10	0.0008	0.0214	5.5450
16	0.0007	0.0173	5.8498
25	0.0005	0.0123	6.3454
40	0.0003	0.0065	7.2552
50	0.0002	0.0046	7.7612
60	0.0001	0.0034	8.1974
75	0.0001	0.0021	8.8684
84	0.0001	0.0015	9.3691
90	0.0000	0.0011	9.8054
95	0.0000	0.0008	10.2939

**All Grain Sizes Classed using Wentworth Scale

Company: Enthalpy Analytical, Inc.
Project Number: 410304

CL File No.: 1804627
Sample ID: 15-Soccer 1

Sieve and Laser Particle Size Analysis



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[ϕ]	[Incl.]	[Cum.]
Granule	5/8 in.	0.625000	15.87500	-4.00	0.000	0.00
	3/8 in.	0.375000	9.50000	-3.25	0.000	0.00
	4	0.187008	4.75000	-2.25	0.899	0.90
	6	0.131890	3.35000	-1.75	1.290	2.19
	8	0.092913	2.36000	-1.25	2.150	4.34
	10	0.078740	2.00000	-1.00	1.642	5.98
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	5.98
	14	0.055678	1.41421	-0.50	0.000	5.98
	16	0.046819	1.18921	-0.25	0.000	5.98
	18	0.039370	1.00000	0.00	0.000	5.98
Coarse Sand	20	0.033106	0.84090	0.25	0.000	5.98
	25	0.027839	0.70711	0.50	0.000	5.98
	30	0.023410	0.59460	0.75	0.000	5.98
	35	0.019685	0.50000	1.00	0.000	5.98
Medium Sand	40	0.016553	0.42045	1.25	0.000	5.98
	45	0.013919	0.35355	1.50	0.000	5.98
	50	0.011705	0.29730	1.75	0.000	5.98
	60	0.009843	0.25000	2.00	0.000	5.98
Fine Sand	70	0.008277	0.21022	2.25	0.000	5.98
	80	0.006960	0.17678	2.50	0.000	5.98
	100	0.005852	0.14865	2.75	0.000	5.98
	120	0.004921	0.12500	3.00	0.000	5.98
V. Fine Sand	140	0.004138	0.10511	3.25	0.000	5.98
	170	0.003480	0.08839	3.50	0.000	5.98
	200	0.002926	0.07433	3.75	0.000	5.98
	230	0.002461	0.06250	4.00	0.000	5.98
Silt	270	0.002069	0.05256	4.25	0.000	5.98
	325	0.001740	0.04419	4.50	0.000	5.98
	400	0.001463	0.03716	4.75	0.024	6.01
	450	0.001230	0.03125	5.00	1.112	7.12
	500	0.001035	0.02628	5.25	4.701	11.82
	635	0.000870	0.02210	5.50	6.287	18.10
		0.000732	0.01858	5.75	5.150	23.25
		0.000615	0.01562	6.00	4.466	27.72
		0.000517	0.01314	6.25	4.808	32.53
		0.000435	0.01105	6.50	4.745	37.27
		0.000366	0.00929	6.75	4.298	41.57
		0.000308	0.00781	7.00	4.087	45.66
		0.000259	0.00657	7.25	4.041	49.70
		0.000217	0.00552	7.50	4.083	53.78
		0.000183	0.00465	7.75	4.245	58.03
		0.000154	0.00391	8.00	4.426	62.45
Clay		0.000129	0.00328	8.25	4.508	66.96
		0.000109	0.00276	8.50	4.474	71.43
		0.000091	0.00232	8.75	4.288	75.72
		0.000077	0.00195	9.00	4.001	79.72
		0.000065	0.00164	9.25	3.656	83.38
		0.000054	0.00138	9.50	3.300	86.68
		0.000046	0.00116	9.75	2.975	89.65
		0.000038	0.00098	10.00	2.651	92.31
		0.000032	0.00082	10.25	2.329	94.63
		0.000027	0.00069	10.50	1.967	96.60
		0.000023	0.00058	10.75	1.558	98.16
		0.000019	0.00049	11.00	1.103	99.26
		0.000016	0.00041	11.25	0.594	99.86
		0.000015	0.00038	11.50	0.145	100.00

Sorting Statistics (Folk)			
Parameter	Trask	Inman	Folk
Median	Silt sized		
(in)	0.0003	0.0003	0.0003
(mm)	0.0065	0.0065	0.0065
Mean	Silt sized		
(in)	0.0004	0.0002	0.0002
(mm)	0.0099	0.0061	0.0062
Sorting	Very poor		
	2.696	1.941	2.704
Skewness	Coarse skewed		
	0.995	-1.388	-0.213
Kurtosis	Very leptokurtic		
	0.278	1.947	1.638

Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
5.98	0.00	56.47	37.55	94.02

Percentile [Weight, %]	Particle Diameter		
	[in.]	[mm]	[phi]
5	0.0872	2.2151	-1.1474
10	0.0011	0.0282	5.1481
16	0.0009	0.0235	5.4114
25	0.0007	0.0174	5.8426
40	0.0004	0.0099	6.6535
50	0.0003	0.0065	7.2670
60	0.0002	0.0043	7.8561
75	0.0001	0.0024	8.7047
84	0.0001	0.0016	9.2938
90	0.0000	0.0011	9.7802
95	0.0000	0.0008	10.2934

**All Grain Sizes Classed using Wentworth Scale

Enthalpy Analytical
Formerly Associated Labs
1 Park Plaza, Suite 1000
Irvine, CA 92614
Tel: 714.771.6900 Fax: 714.538.1209
info-sc@enthalpy.com

MONTROSE

Project: 410304 **Due:**
PM: Diane Galvan
Email: diane.galvan@enthalpy.com
CC: incomingreports@enthalpy.com
Require: ☑ EDD ☐ EDF ☐ EDT
Report To: ☐ MDL

Subcontract Laboratory:

Core Laboratories - Sub
3437 Landco Dr.
Bakersfield, CA 93308
661-325-5657
ATTN: Larry Kunkel
PO# PO1029218

Note:

Matrix	Sampled	Sample ID	Analysis	Comment
Solid	12/21/18 10:23	01- Behind tennis court (410304-001)	Grain Size	
Solid	12/21/18 10:34	02- Behind tennis court (410304-002)	Grain Size	
Solid	12/21/18 10:48	03- Behind tennis court (410304-003)	Grain Size	
Solid	12/21/18 11:00	04- Behind tennis court (410304-004)	Grain Size	
Solid	12/21/18 11:13	05- Soccer 2 (410304-005)	Grain Size	
Solid	12/21/18 11:33	06- Soccer 2 (410304-006)	Grain Size	
Solid	12/21/18 11:45	07- Soccer 2 (410304-007)	Grain Size	
Solid	12/21/18 12:10	08- Soccer 2 (410304-008)	Grain Size	
Solid	12/21/18 12:29	09- Baseball 2 (410304-009)	Grain Size	
Solid	12/21/18 12:43	10- Baseball 1 (410304-010)	Grain Size	
Solid	12/21/18 13:02	11- Baseball 2 (410304-011)	Grain Size	
Solid	12/21/18 13:14	12- Baseball 2 (410304-012)	Grain Size	
Solid	12/21/18 13:29	13- Soccer 1 (410304-013)	Grain Size	
Solid	12/21/18 13:45	14- Soccer 1 (410304-014)	Grain Size	
Solid	12/21/18 13:57	15- Soccer 1 (410304-015)	Grain Size	

Note:
Need results ASAP!

Relinquished By	Received By:
[signature]	[signature]
Date/Time 12/27/18 1800	Date/Time 12/28/18 11:00 AM
Date/Time	Date/Time

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client: Forensic Analytical Consulting Services
Address: 2959 E Pacific Commerce Dr
Rancho Dominguez, CA 90221

Attn: Pearl Pereira

Comments: Malibu HS - Soil Sampling
#PJ40247

Supplemental Report 3

Lab Request: 410059
Report Date: 12/28/2018
Date Received: 12/15/2018
Client ID: 15899

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
410059-001	01 - Soccer 1
410059-002	02 - Soccer 1
410059-003	03 - Soccer 1
410059-006	06 - Baseball 2
410059-008	08 - Soccer 2
410059-013	13 - Soccer 1
410059-015	15 - Football
410059-020	20 - Football

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Diane M. Galvan

Report Review performed by: Diane Galvan, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:00 **Site:**
Sample #: **410059-001** **Client Sample #:** 01 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:15 **Site:**
Sample #: **410059-002** **Client Sample #:** 02 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:25 **Site:**
Sample #: **410059-003** **Client Sample #:** 03 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 13:55 **Site:**
Sample #: **410059-006** **Client Sample #:** 06 - Baseball 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 14:20 **Site:**
Sample #: **410059-008** **Client Sample #:** 08 - Soccer 2 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:20 **Site:**
Sample #: **410059-013** **Client Sample #:** 13 - Soccer 1 **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 15:40 **Site:**
Sample #: **410059-015** **Client Sample #:** 15 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

Matrix: Solid **Client:** Forensic Analytical Consulting Services **Collector:** Client
Sampled: 12/15/2018 16:15 **Site:**
Sample #: **410059-020** **Client Sample #:** 20 - Football **Sample Type:**

Analyte	Result	DF	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 6010B *NELAC* Prep Method: EPA 1311/3010A						QCBatchID: QC1199453		
Chromium	ND	1	0.05	mg/L	12/28/18	12/28/18	SBW	
Method: EPA 6010B *NELAC* Prep Method: STLC						QCBatchID: QC1199460		
Chromium	ND	10	0.3	mg/L	12/28/18	12/28/18	SBW	

QCBatchID: QC1199453 **Analyst:** sbailey-woo **Method:** EPA 6010B

Matrix: Solid **Analyzed:** 12/28/2018 **Instrument:** AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1199453MB1						
Chromium	ND	mg/L		0.05		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199453LCS1											
Chromium	2		1.834		mg/L	92			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1199453MS1, QC1199453MSD1												**Source: 410059-001**
Chromium	0.004	1	1	0.889	0.874	mg/L	89	87	1.7	75-125	20	

QCBatchID:	**QC1199460**	**Analyst:**	sbailey-woo	**Method:**	EPA 6010B
Matrix:	Solid	**Analyzed:**	12/28/2018	**Instrument:**	AAICP (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes	
QC1199460MB1						
Chromium	ND	mg/L		0.03		

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1199460LCS1, QC1199460LCSD1											
Chromium	20	20	16.5	17.7	mg/L	83	89	7	80-120	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
IR	Inconclusive Result. Legionella is present, however, there is possible non-specific agglutination preventing specific identification.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and/or MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

From:	Pearl Pereira
To:	Diane Galvan
Cc:	Daniel Chavez
Subject:	Re: Malibu HS
Date:	Wednesday, December 26, 2018 10:06:58 AM

Hi Diane,
Please run TCLP/STLC runs for chromium only for these samples:

01 - Soccer 1
02 - Soccer 1
03 - Soccer 1
06 - Baseball 2
08 - Soccer 2
13 - Soccer 1
15 - Football
20 - Football

Thanking you,

Pearl J. Pereira, P.G., C.H.G.
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Right People

Right Perspective

Right Now

www.forensicanalytical.com