APPENDIX O

LIMITED PHASE II ESA, POND & GROUNDWATER QUALITY

NPV

February 20, 2019

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Limited Phase II
Environmental Site Assessment
Pond & Groundwater Quality

Indian Hills Country Club

Fort Salonga, New York

NP&V Job # 86047

February 20, 2019

Limited Phase II
Environmental Site Assessment
Pond & Groundwater Quality

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ENVIRONMENTAL • PLANNING • CONSULTING

Limited Phase II
Environmental Site Assessment
Pond & Groundwater Quality

Indian Hills Country Club

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1.0 INTRODUCTION AND PURPOSE

Nelson, Pope & Voorhis, LLC (NP&V) has been contracted to prepare a Limited Phase II Environmental Site Assessment for the subject property related to the pond surface water and sediments as well as groundwater at the subject property. This report is intended to provide environmental quality information as required by the Town of Huntington in their Final Scope for the Draft Environmental Impact Statement that is being prepared in connection with development of a clustered subdivision on the existing golf course identified as the Preserve at Indian Hills.

The protocol used to direct this investigation is based upon the following documents: 1) New York State Department of Environmental Conservation (NYSDEC) 6NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 & 375-6 and 2) NYSDEC Division of Water TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. The laboratory analysis was provided by Long Island Analytical Laboratories. The following sections detail the subject property and surrounding area characteristics, sampling program, quality assurance protocol, laboratory analysis methodology and laboratory results.

2.0 SAMPLING AND ANALYSIS PROGRAM (SAP)

2.1 GRAB BUCKET POND SEDIMENT SAMPLING

Sediment samples were collected from each of the five (5) ponds located within the golf course as well as from two (2) locations within Fresh Pond which is situated to the east of the Indian Hills Country Club and receives surface water overflow from the golf course ponds. The sediment samples were retrieved using a grab bucket sampler and were collected from the top zero to twelve (0-12) inches of the pond bottom sediments. **Figure 1** located at the end of this document provides a location map of the samples collected.

2.2 POND SURFACE WATER SAMPLING

Surface water samples were collected from each of the five (5) ponds located within the golf course as well as from two (2) locations within Fresh Pond. Each sample was collected using laboratory supplied sample vessels which were dipped into surface water to collect the samples. **Figure 1** provides a map identifying the location of the surface water samples.

2.3 IRRIGATION WELL SAMPLING

A groundwater sample was collected from the golf course irrigation well located on the subject property. The sample was retrieved from the sample spigot located closest to the well pump and placed directly into the laboratory sample vessels. **Figure 1** provides a map identifying the location of the irrigation well sample.

2.4 LABORATORY SAMPLE LOCATION AND FREQUENCY

The sediment and water samples collected as part of this investigation were containerized and labeled for identification purposes. The labels were coded to correspond to the location from which the samples were secured. **Table 1** provides an index of how the samples were coded during labeling.

TABLE 1
SAMPLE IDENTIFICATION

SAMPLE LOCATION	SAMPLE ID CODE
Location of surface water and sediment sample from Pond-1*	Pond-1
Location of surface water and sediment sample from Pond-2*	Pond-2
Location of surface water and sediment sample from Pond-3*	Pond-3
Location of surface water and sediment sample from Pond-4*	Pond-4
Location of surface water and sediment sample from Pond-5*	Pond-5
Surface water and sediment sample collected from Fresh Pond located east of Claymore Road.	FP-1
Surface water and sediment sample collected from Fresh Pond located east of Cousins Street.	FP-2
Groundwater sample collected from irrigation well centrally located along the eastern golf course boundary.	IW

Notes: Refer to Figure 1 for location of each golf course pond sampled.

3.0 LABORATORY ANALYSIS

3.1 ANALYTICAL TEST METHODS

All sediment and water samples were transported to a New York State Certified Commercial Laboratory for analysis. All of the sediment, surface water and groundwater samples were analyzed for the presence of volatile and semi-volatile organic compounds, pesticides, herbicides, PCBs, metals and dioxin. In addition, the samples were also analyzed for the presence of general chemistry parameters which included total nitrogen, nitrate, nitrite, total kjeldahl nitrogen, total phosphorus, total coliform and fecal coliform. A listing of the analytical test methods used for each parameter are provided on the laboratory analytical datasheets provided in **Appendix A**.

3.2 ANALYTICAL RESULTS

Below is a summary of the laboratory analytical results for the sediment, surface water and groundwater sample collected at the subject property. All sediment sample results were compared to the NYSDEC Part 375 soil cleanup objectives for the protection of groundwater and ecological resources.

3.2.1 Pond Sediment Sample Results

Golf Course Pond Sediment Sample Results

Review of the analytical results for the sediment samples collected from the five (5) ponds located within the golf course did not reveal the presence of any volatile organic compounds, semi-volatile organic compounds, herbicides or PCBs in any of the samples collected. Several pesticides were detected in all of the golf course pond sediments but only the detection of 4,4-DDD in Pond 2; 4,4-DDE in Ponds 3 & 4 and dieldrin in Pond 4 were found to exceed their Part 375 recommended soil cleanup objectives (SCOs) for the protection of ecological resources. None of the pesticides detected were found to exceed their respective Part 375 SCOs for the protection of groundwater. Several metals were also detected in the golf course pond sediments but only chromium was found to exceed its Part 375 RCO for the protection of ecological resources and/or the protection of groundwater. Chromium was found to exceed its Part 375 RCO for the protection of ecological resources in all of the golf course pond sediment samples but only exceeded its Part 375 RCO for the protection of groundwater in the sediment samples collected from Ponds 4 & 5. Of the general chemistry parameters analyzed only phosphorus was detected and was found to be present in all of the golf course pond sediment samples at concentrations ranging from 453 to 1,060 milligrams per kilogram (mg/kg). No part 375 RCO has been established for phosphorus for either the protection of ecological resources or groundwater. A summary of the golf course pond sediment results is provided in **Table 2**.

Fresh Pond Sediment Sample Results

Review of the analytical results for the sediments collected from the two (2) locations within Fresh Pond did not reveal the presence of any semi-volatile organic compounds, herbicides or PCBs in any of the samples collected. Acetone was the only volatile organic compound detected in the Fresh Pond sediment samples at concentrations of 50 ug/l and 121 ug/l. These concentrations are below acetones Part 375 SCO established for the protection of ecological resources but above the Part 375 SCO established for the protection of groundwater. Several pesticides were detected in both of the Fresh Pond sediment samples but none were found to exceed their respective Part 375 SCOs for the protection of groundwater. However, the detections of 4,4-DDD and 4,4-DDE in sample Fresh Pond 2 were found to exceed their respective Part 375 SCOs for the protection of ecological resources. Several metals were also detected in both of the sediment samples collected from Fresh Pond but only chromium was found to exceed its Part 375 RCO for the protection of ecological resources and/or the protection of groundwater. Chromium was found to exceed its Part 375 RCO for the protection of ecological resources in both of the Fresh Pond sediment samples but these detections were below the Part 375 SCO for the protection of groundwater established for chromium. Of the general chemistry parameters analyzed only phosphorus was detected and was found to be present in both of the Fresh Pond sediment samples at concentrations of 65.1 to 302 mg/kg. No part 375 RCO has been established for phosphorus for either the protection of ecological resources or groundwater. A summary of the Fresh Pond sediment results is provided in **Table 2**.

3.2.2 Pond Surface Water Sampling Results

Below is a summary of the laboratory analytical results for the sediment, surface water and groundwater sample collected at the subject property. The surface water results were compared to the NYSDEC TOGS 1.1.1 standards applied to general aquatic life which consisted of fish propagation, aesthetic and water source types.

Golf Course Pond Surface Water Sampling Results

Review of the analytical results for the surface water samples collected from the five (5) ponds located within the golf course did not reveal the presence of any volatile organic compounds, pesticides, herbicides or PCBs in any of the samples collected. The semi-volatile organic compounds 4-Nitrophenol and Benzyl alcohol were detected in the surface waters of Pond-2 and Pond 4, respectively but there is no standard for either of these compounds. Several metals were detected in all of the golf course ponds sampled but only the detection of iron was found to exceed the TOGS 1.1.1 standards established for general aquatic life. With regard to the general chemistry analysis total coliform and fecal coliform were all detected in all of the ponds sampled but no TOGS 1.1.1 standards for general aquatic life has been established for these constituents. Total phosphorus was detected in the surface waters of Pond 4 at a concentration that exceeded its respective TOGS 1.1.1 standard for general aquatic life. A summary of the golf course pond surface water results is provided in **Table 3**.

Fresh Pond Surface Water Sampling Results

Review of the analytical results for the surface water samples collected from Fresh Pond did not reveal the presence of any volatile organic compounds, semi-volatile organic compounds, pesticides, herbicides or PCBs in any of the samples collected. Several metals were detected in

all of the Fresh Pond samples but only the detections of aluminum, iron, magnesium, and manganese were found to exceed their respective TOGS 1.1.1 standards established for general aquatic life. With regard to the general chemistry analysis total coliform and fecal coliform were all detected in all of the samples but no TOGS 1.1.1 standards for general aquatic life have been established for these constituents. Total phosphorus was detected in the surface waters of Pond 2 but at a concentration below its respective TOGS 1.1.1 standard for general aquatic life. A summary of the Fresh Pond surface water results is provided in **Table 3**.

3.2.3 Irrigation Well Sampling Result

Review of the analytical results for the groundwater sample collected from the golf course irrigation well did not reveal the presence of any volatile organic compounds, semi-volatile organic compounds, pesticides, herbicides or PCBs. Several metals were detected but all were below their respective TOGS 1.1.1 standards or guidance values for class GA groundwater. With regard to the general chemistry analysis total nitrogen, nitrate, total coliform and fecal coliform were all detected in the irrigation well sample. Of these compounds only nitrate has an established TOGS 1.1.1 standard of 10 mg/l and the sample detected nitrate at a concentration of 7.08 mg/l. A summary of the irrigation well sampling results is provided in **Table 4**.

The laboratory analysis sheets (NYS ASPA) as prepared by Long Island Analytical Laboratories for all the samples collected are presented in **Appendix A** of this document.

Table 2

IHCC Pond & Fresh Pond Sediment Sampling Results

Sample ID	Pond-1	Pond-2	Pond-3	Pond-4	Pond-5	Fresh Pond-1	Fresh Pond-2	Part 375 Protection of Groundwater	Part 375 Protection of Ecological Resources
Volatiles	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
Acetone	ND	ND	ND	ND	ND	**50**	**121**	**50**	*2,200*
Pesticides	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**
4,4-DDD	ND	*3.90*	2.60	ND	ND	ND	*7.74*	**14,000**	*3.3*
4,4-DDE	ND	ND	*4.06*	*5.89*	1.61	ND	*10.1*	**17,000**	*3.3*
4,4-DDT	ND	ND	ND	ND	ND	ND	2.81	**136,000**	*3.3*
Aldrin	ND	1.64	ND	ND	ND	0.666	ND	**190**	*140*
alpha-BHC	9.38	8.50	ND	ND	8.64	2.57	6.03	**20**	*40*
beta-BHC	ND	4.83	2.71	5.30	ND	2.55	ND	**90**	*600*
cis-Chlordane	ND	ND	ND	72	ND	ND	0.905	**2,900**	*1,300*
delta-BHC	6.71	3.82	3.61	6.95	4.97	1.26	1.91	**250**	*40*
Dieldrin	ND	ND	1.19	*11*	ND	ND	0.771	**100**	*6*
Endosulfan I	ND	ND	ND	4.71	ND	ND	1.37	**102,000**	*NS*
Endosulfan II	2.24	ND	ND	4.24	ND	0.857	0.670	**102,000**	*NS*
Endrin	ND	6.94	4.85	ND	6.42	ND	1.11	**60**	*14*
Endrin Aldenhyde	5.42	ND	0.959	2.71	ND	1.12	2.88	**NS**	*NS*
gamma-BHC	3.44	7.25	5.08	ND	ND	1.40	1.98	**NS**	*NS*
Heptachlor	ND	ND	ND	ND	ND	0.381	ND	**380**	*140*
trans-Chlordane	ND	7.17	5.14	102	10.9	ND	1.84	**14,000**	*NS*
Metals	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Aluminum	5,240	7,470	8,250	11,900	9,620	586	3,970	**NS**	*NS*
Arsenic			5.38	14.2	5.23		3.12	**16**	*13*
Barium	74.9	57	44.3	70.7	52.5	3.48	30.2	**820**	*433*
Calcium	1,840	2,100	1,160	2,690	1,660	232	409	**NS**	*NS*
Chromium	*11.4*	*16.2*	***19.9***	***20***	***19.5***	*2.13*	*8.09*	**19**	*1*
Cobalt		7.03	4.49	ND	5.03		3.55	**NS**	*NS*
Copper	8.76	11.6	11.8	27.3	16.8		19.3	**1,720**	*50*
Iron	17,300	9,690	7,630	11,200	9,190	1,390	14,100	**NS**	*NS*
Lead	13.3	24.4	24.1	29.3	23.3		180	**450**	*63*
Magnesium	921	1,310	1,390	1,880	1,600	227	672	**NS**	*NS*
Manganese	619	316	195	295	268	16	74.9	**2,000**	*1,600*
Nickel	6.14	7.70	8.42	14	12		7.50	**130**	*30*
Potassium	369	536	524	629	577	92.6	401	**NS**	*NS*
Sodium	94.6	79.8	60.9	114	77.3	55.2	118	**NS**	*NS*
Vandium	16.4	21.3	19.8	42	27.7	3.62	18.2	**NS**	*NS*
Zinc	32.3	46	37.6	63.1	50.2	3.34	62.9	**2,480**	*109*
Mercury	ND	ND	ND	ND	ND	ND	ND	**0.73**	*0.18*
Semi-volatiles	**None Detected**								
Herbicides	**None Detected**								
PCBs	**None Detected**								

Table 2, Con't

IHCC Pond & Fresh Pond General Chemistry Sediment Sampling Results

Sample ID	Pond-1	Pond-2	Pond-3	Pond-4	Pond-5	Fresh Pond-1	Fresh Pond-2	Part 375 Protection of Groundwater	Part 375 Protection of Ecological Resources
General Chemistry	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
Total Nitrogen	ND	ND	ND	ND	ND	ND	ND	**NS**	*NS*
Nitrate	ND	ND	ND	ND	ND	ND	ND	**NS**	*NS*
Nitrite	ND	ND	ND	ND	ND	ND	ND	**NS**	*NS*
Total Kjeldahl Nitrogen	ND	ND	ND	ND	ND	ND	ND	**NS**	*NS*
Total Phosphorus	572	509	453	1,060	680	65.1	302	**NS**	*NS*
Total Coliform	ND	ND	ND	ND	ND	ND	ND	**NS**	*NS*
Fecal Coiform	ND	ND	ND	ND	ND	ND	ND	**NS**	*NS*

Table 3

IHCC Pond & Fresh Pond Surface Water Sampling Results

Sample ID	Pond-1	Pond-2	Pond-3	Pond-4	Pond-5	Fresh Pond-1	Fresh Pond-2	TOGS 1.1.1
Semi-Volatiles	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Benzyl alcohol	ND	ND	ND	5.88	ND	ND	ND	**NS**
4-Nitrophenol	ND	14.9	ND	ND	ND	ND	ND	**NS**
Metals	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
Aluminum	ND	ND	ND	ND	ND	ND	**0.38**	**0.1**
Calcium	8.68	8.92	8.33	7.43	7.70	21.1	22.8	**NS**
Iron	**0.93**	**0.69**	**0.53**	**0.44**	**0.40**	ND	**6.96**	**0.3**
Magnesium	4.17	4.14	3.72	3.53	3.42	**36.8**	34.2	**35**
Manganese	0.13	0.07	0.08	0.14	0.07	0.06	**0.38**	**0.3**
Potassium	3.35	4.29	4.38	4.21	4.27	15.7	16.4	**NS**
Sodium	12.3	11.9	10.5	9.74	9.24	323	295	**NS**
General Chemistry	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**
Total Nitrogen	ND	ND	ND	ND	ND	ND	ND	**NS**
Nitrate	ND	ND	ND	ND	ND	ND	ND	**10**
Nitrite	ND	ND	ND	ND	ND	ND	ND	**1**
Total Kjeldahl Nitrogen	ND	ND	ND	ND	ND	ND	ND	**NS**
Total Phosphorus	ND	ND	ND	**0.105**	ND	ND	**0.113**	**0.02**
Total Coliform	920	540	350	170	240	920	ND	**NS**
Fecal Coiform	220	240	130	170	130	540	ND	**NS**
Volatiles	**None Detected**							
Pesticides	**None Detected**							
Herbicides	**None Detected**							
PCBs	**None Detected**							

Table 4

IHCC Irrigation Well Sampling Results

Sample ID	IW	TOGS 1.1.1
Metals	**mg/l**	**mg/l**
Calcium	18.9	**NS**
Iron	0.25	**0.30**
Magnesium	7.30	**35**[1]
Potassium	1.18	**NS**
Sodium	19.3	**20**
General Chemistry	**mg/l**	**mg/l**
Total Nitrogen	7.08	**NS**
Nitrate	7.08	**10**
Nitrite	ND	**1**
Total Kjeldahl Nitrogen	ND	**NS**
Total Phosphorus	ND	**0.02**
Total Coliform	7.8	**NS**
Fecal Coiform	1.8	**NS**
Volatiles	**None Detected**	
Semi-volatiles	**None Detected**	
Pesticides	**None Detected**	
Herbicides	**None Detected**	
PCBs	**None Detected**	

Notes for Tables:

ug/kg – micrograms per kilogram
mg/kg – milligrams per kilogram
ND – Non-Detect
NS – No Standard
Bold and Shaded - For sediments concentration exceeds its respective Part 375 soil cleanup objective for the protection of groundwater. For surface and groundwater concentration exceeds its respective TOGS 1.1.1 standard.
Italic – For sediments concentration exceeds its respective Part 375 soil cleanup objective for the protection of ecological resources.
1 – Magnesium does not have a TOGS 1.1.1 standard but does have a guidance value for groundwater which is referenced in the table.

4.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES (QA/QC)

This sampling protocol was conducted in accordance with USEPA accepted sampling procedures for hazardous waste streams (Municipal Research Laboratory, 1980, Sampling and Sampling Procedures for Hazardous Material Waste Streams, USEPA, Cincinnati, Ohio EPA- 600\280-018) and ASTM Material Sampling Procedures. All samples were collected by or under the auspices of USEPA trained personnel having completed the course Sampling of Hazardous Materials, offered by the Office of Emergency and Remedial Response.

Separate QA/QC measures were implemented for each of the instruments used in the Sampling and Analysis Program. Sampling instruments included a bucket grab sampler and sample vessels.

Prior to arrival on the site and between sample locations, the probes sections were decontaminated by washing with a detergent (alconox/liquinox) and potable water solution with distilled water rinse. All sample vessels were "level A" certified decontaminated containers. Samples were placed into vessels consistent with the analytical parameters. After acquisition, samples were preserved in the field. All containerized samples were refrigerated to 4^{o} C during transport.

A sample represents physical evidence; therefore, an essential part of liability reduction is the proper control of gathered evidence. To establish proper control, the following sample identification and chain-of-custody procedures were followed.

Sample Identification

Sample identification was executed by use of a sample tag, logbook and manifest. Documentation provides the following:

1. Project Code
2. Sample Laboratory Number
3. Sample Preservation
4. Instrument Used for Source Soil Grabs
5. Composite Medium Used for Source Soil Grabs
6. Date Sample was Secured from Source Soil
7. Time Sample was Secured from Source Soil
8. Person Who Secured Sample from Source Soil

Chain-of-Custody Procedures

Due to the evidential nature of samples, possession was traceable from the time the samples were collected until they were received by the testing laboratory. A sample was considered under custody if:

It was in a person's possession, or
It was in a person's view, after being in possession, or
It was in a person's possession and they were to lock it up, or
It is in a designated secure area.

When transferring custody, the individuals relinquishing and receiving signed, dated and noted the time on the Chain-of- Custody Form.

Laboratory Custody Procedures

A designated sample custodian accepted custody of the shipped samples and verified that the information on the sample tags matched that on the Chain-of-Custody records. Pertinent information as to shipment, pick-up, courier, etc. was entered in the "remarks" section. The custodian then entered the sample tag data into a bound logbook which was arranged by project code and station number.

The laboratory custodian used the sample tag number or assigned an unique laboratory number to each sample tag and assured that all samples were transferred to the proper analyst or stored in the appropriate source area.

The custodian distributed samples to the appropriate analysts. Laboratory personnel were responsible for the care and custody of samples from the time they were received until the sample was exhausted or returned to the custodian.

All identifying data sheets and laboratory records were retained as part of the permanent site record. Samples received by the laboratory were retained until after analysis and quality assurance checks were completed.

5.0 SUMMARY AND CONCLUSION

This report is intended to provide environmental quality information as required by the Town of Huntington in their Final Scope for the Draft Environmental Impact Statement that is being prepared in connection with development of a clustered subdivision on the existing golf course identified as the Preserves at Indian Hills. The sampling and analysis plan consisted of sediment and water quality testing using analytical test methods consistent with expected parameters and agency soil cleanup objectives. In addition, the following presents an evaluation of the results of this investigation.

1. Review of the analytical results for the sediments collected from the five (5) ponds located within the golf course did not reveal the presence of any volatile organic compounds, semi-volatile organic compounds, herbicides or PCBs in any of the samples collected. Several pesticides were detected in all of the golf course pond sediments but only the detection of 4,4-DDD in Pond 2; 4,4-DDE in Ponds 3 & 4and dieldrin in Pond 4 were found to exceed their Part 375 recommended soil cleanup objectives (SCOs) for the protection of ecological resources. None of the pesticides detected were found to exceed their respective Part 375 SCOs for the protection of groundwater. Several metals were also detected in the golf course pond sediments but only chromium was found to exceed its Part 375 RCO for the protection of ecological resources and/or the protection of groundwater. Chromium was found to exceed its Part 375 RCO for the protection of ecological resources in all of the golf course pond sediment samples but only exceeded its Part 375 RCO for the protection of groundwater in the sediment samples collected from Ponds 4 & 5. Of the general chemistry parameters analyzed only phosphorus was detected and was found to be present in all of the golf course pond sediment samples at concentrations ranging from 453 to 1,060 milligrams per kilogram (mg/kg). No part 375 RCO has been established for phosphorus for either the protection of ecological resources or groundwater.

   Review of the analytical results for the sediments collected from the two (2) locations within Fresh Pond did not reveal the presence of any semi-volatile organic compounds, herbicides or PCBs in any of the samples collected. Acetone was the only volatile organic compound detected in the Fresh Pond sediment samples at concentrations of 50 ug/l and 121 ug/l. These concentrations are below acetones Part 375 SCO established for the protection of ecological resources but above the Part 375 SCO established for the protection of groundwater. Several pesticides were detected in both of the Fresh Pond sediment samples but none were found to exceed their respective Part 375 SCOs for the protection of groundwater. However, the detections of 4,4-DDD and 4,4-DDE in sample Fresh Pond 2 were found to exceed their respective Part 375 SCOs for the protection of ecological resources. Several metals were also detected in both of the sediment samples collected from Fresh Pond but only chromium was found to exceed its Part 375 RCO for the protection of ecological resources and/or the protection of groundwater. Chromium was found to exceed its Part 375 RCO for the protection of ecological resources in both of the Fresh Pond sediment samples but these detections were below the Part 375 SCO for the protection of groundwater established for chromium. Of the general chemistry parameters analyzed only phosphorus was detected and was found to be present in both of the Fresh Pond sediment samples at concentrations of 65.1 to 302 mg/kg. No part 375 RCO has been established for phosphorus for either the protection of ecological resources or groundwater.
2. Review of the analytical results for the surface water samples collected from the five (5) ponds located within the golf course did not reveal the presence of any semi-volatile organic compounds, pesticides, herbicides or PCBs in any of the samples collected. Benzyl alcohol was

detected in the surface waters of Pond 4 but there is no standard for this compound. Several metals were detected in all of the golf course ponds sampled but only the detection of iron was found to exceed the TOGS 1.1.1 standards established for general aquatic life. With regard to the general chemistry analysis total coliform and fecal coliform were all detected in all of the ponds sampled but no TOGS 1.1.1 standards for general aquatic life has been established for these constituents. Total phosphorus was detected in the surface waters of Pond 4 at a concentration that exceeded its respective TOGS 1.1.1 standard for general aquatic life.

Review of the analytical results for the surface water samples collected from Fresh Pond did not reveal the presence of any volatile organic compounds, semi-volatile organic compounds, pesticides, herbicides or PCBs in any of the samples collected. Several metals were detected in all of the golf the Fresh Pond samples but only the detections of aluminum, iron, magnesium, and manganese were found to exceed their respective TOGS 1.1.1 standards established for general aquatic life. With regard to the general chemistry analysis total coliform and fecal coliform were all detected in all of the ponds sampled but no TOGS 1.1.1 standards for general aquatic life has been established for these constituents. Total phosphorus was detected in the surface waters of Pond 2 but at a concentration below its respective TOGS 1.1.1 standard for general aquatic life.

3. Review of the analytical results for the groundwater sample collected from the golf course irrigation well did not reveal the presence of any volatile organic compounds, semi-volatile organic compounds, pesticides, herbicides or PCBs. Several metals were detected but all were below their respective TOGS 1.1.1 standards or guidance values for class GA groundwater. With regard to the general chemistry analysis total nitrogen, nitrate, total coliform and fecal coliform were all detected in the irrigation well sample. Of these compounds only nitrate has an established TOGS 1.1.1 standard of 10 mg/l and the sample detected nitrate at a concentration of 7.08 mg/l.

The subject property has been evaluated in accordance with standard practice for the industry. This Limited Phase II ESA addresses only the specific areas requested and can only provide conclusions regarding the sediment and water quality in those specific areas tested. The Limited Phase II ESA report is limited to the evaluation of on-site conditions at the time of completion of the field sampling program.

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Date of Completion *Charles J. Voorhis, CEP, AICP*
Project Manager

6.0 REFERENCES

American Society for Testing and Materials (ASTM), June 2011, E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process, West Conshohocken, Pennsylvania.

New York State Department of Environmental Conservation (NYSDEC), 1992, Sampling Guidelines and Protocols, Technology Background and Quality Control/Quality Assurance for NYSDEC Spill Response Program, NYSDEC, Albany, New York.

New York State Department of Environmental Conservation (NYSDEC), December 2006, 6NYCRR Part 375 Environmental Remediation Programs Subparts 375-1 to 375-4 & 375-6, Division of Environmental Remediation, Albany, New York.

NYSDEC – Division of Water, 1998, Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Albany, New York.

FIGURES

NELSON, POPE & VOORHIS, LLC
ENVIRONMENTAL • PLANNING • CONSULTING

FIGURE 1
SAMPLE LOCATION MAP

Source: NYS Orthophotography, 2016
Scale: 1 inch = 500 feet

N

The Preserve at Indian Hills Northport

Limited Phase II ESA

APPENDICES

APPENDIX A

LABORATORY DATA SHEETS

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 8102913

November 26, 2018

Nelson, Pope & Voorhis
Steve McGinn
572 Walt Whitman Road
Melville, NY 11747

Re: IHCC

Dear Steve McGinn,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on October 29, 2018. Long Island Analytical laboratories analyzed the samples on November 26, 2018 for the following:

SAMPLE ID	ANALYSIS
Pond-1	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond-2	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond-3	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond-4	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond-5	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
FP-1	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
FP-2	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
IW	Dioxin, EPA 608.3, EPA 8081 B, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen

Samples received at 1.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	112	74.4-131	
4-Bromofluorobenzene	460-00-4	100	82.3-134	
Dibromofluoromethane	1868-53-7	124	79.4-122	4.E
Toluene-d8	2037-26-5	103	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	78	50-200	
1,4-Difluorobenzene	540-36-3	93	50-200	
Chlorobenzene-d5	3114-55-4	94	50-200	
Pentafluorobenzene	363-72-4	92	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	4.J
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	4.N
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	4.J
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	4.K
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	4.N
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	4.K
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	4.J
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	4.N
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	4.K
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	4.J
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	4.C
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	88	38.5-145	
2-Fluorobiphenyl	321-60-8	80	40.4-114	
2-Fluorophenol	367-12-4	51	12.7-89.3	
Nitrobenzene-d5	4165-60-0	86	47.3-131	
Phenol-d6	13127-88-3	41	7.73-72.3	
Terphenyl-d14	1718-51-0	90	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	89	50-200	
Acenaphthene-d10	15067-26-2	90	50-200	
Chrysene-d12	1719-03-5	87	50-200	
Naphthalene-d8	1146-65-2	102	50-200	
Perylene-d12	1520-96-3	86	50-200	
Phenanthrene-d10	1517-22-2	86	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	69	57.4-130	
Tetrachloro-m-xylene	877-09-8	58	51.9-129	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	103	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	98	34.8-127	
Tetrachloro-m-xylene	877-09-8	72	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	115	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	89	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	106	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	8.68	mg/L	
Chromium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.20	0.93	mg/L	
Lead	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	4.17	mg/L	
Manganese	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.13	mg/L	
Nickel	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	3.35	mg/L	
Silver	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	12.3	mg/L	
Thallium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 20:25	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 20:25	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	<0.100	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	920	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	220	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:01	Sample ID: Pond-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-01
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N, 4.G
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	4.G
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.G, 4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.M, 4.K
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	4.G
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	4.G
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.G, 4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	111	74.4-131	
4-Bromofluorobenzene	460-00-4	98	82.3-134	
Dibromofluoromethane	1868-53-7	123	79.4-122	4.E
Toluene-d8	2037-26-5	102	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	76	50-200	
1,4-Difluorobenzene	540-36-3	90	50-200	
Chlorobenzene-d5	3114-55-4	91	50-200	
Pentafluorobenzene	363-72-4	90	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	4.J
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	4.N
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	4.J
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	14.9	ug/L	4.K
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	4.N
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	4.K
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	4.J
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	4.N
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	4.K
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	4.J
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	4.C
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	95	38.5-145	
2-Fluorobiphenyl	321-60-8	86	40.4-114	
2-Fluorophenol	367-12-4	44	12.7-89.3	
Nitrobenzene-d5	4165-60-0	91	47.3-131	
Phenol-d6	13127-88-3	39	7.73-72.3	
Terphenyl-d14	1718-51-0	85	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	106	50-200	
Acenaphthene-d10	15067-26-2	100	50-200	
Chrysene-d12	1719-03-5	88	50-200	
Naphthalene-d8	1146-65-2	112	50-200	
Perylene-d12	1520-96-3	92	50-200	
Phenanthrene-d10	1517-22-2	104	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	58	57.4-130	
Tetrachloro-m-xylene	877-09-8	46	51.9-129	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	99	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	76	34.8-127	
Tetrachloro-m-xylene	877-09-8	53	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	115	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	91	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	100	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	8.92	mg/L	
Chromium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.20	0.69	mg/L	
Lead	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	4.14	mg/L	
Manganese	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.07	mg/L	
Nickel	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	4.29	mg/L	
Silver	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	11.9	mg/L	
Thallium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 20:48	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 20:48	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	<0.100	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	540	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	240	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:15	Sample ID: Pond-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-02
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	111	74.4-131	
4-Bromofluorobenzene	460-00-4	96	82.3-134	
Dibromofluoromethane	1868-53-7	124	79.4-122	4.E
Toluene-d8	2037-26-5	102	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	75	50-200	
1,4-Difluorobenzene	540-36-3	89	50-200	
Chlorobenzene-d5	3114-55-4	89	50-200	
Pentafluorobenzene	363-72-4	86	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	4.J
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	4.N
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	4.J
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	4.K
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	4.N
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	4.K
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	4.J
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	4.N
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	4.K
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	4.J
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	4.C
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	96	38.5-145	
2-Fluorobiphenyl	321-60-8	87	40.4-114	
2-Fluorophenol	367-12-4	56	12.7-89.3	
Nitrobenzene-d5	4165-60-0	93	47.3-131	
Phenol-d6	13127-88-3	47	7.73-72.3	
Terphenyl-d14	1718-51-0	84	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	88	50-200	
Acenaphthene-d10	15067-26-2	91	50-200	
Chrysene-d12	1719-03-5	89	50-200	
Naphthalene-d8	1146-65-2	95	50-200	
Perylene-d12	1520-96-3	88	50-200	
Phenanthrene-d10	1517-22-2	100	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	61	57.4-130	
Tetrachloro-m-xylene	877-09-8	50	51.9-129	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	106	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	84	34.8-127	
Tetrachloro-m-xylene	877-09-8	61	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	119	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	95	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	102	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	8.33	mg/L	
Chromium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.20	0.53	mg/L	
Lead	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	3.72	mg/L	
Manganese	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.08	mg/L	
Nickel	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	4.38	mg/L	
Silver	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	10.5	mg/L	
Thallium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 21:11	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 21:11	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	<0.100	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	350	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	130	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:40	Sample ID: Pond-3
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-03
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	110	74.4-131	
4-Bromofluorobenzene	460-00-4	98	82.3-134	
Dibromofluoromethane	1868-53-7	129	79.4-122	4.E
Toluene-d8	2037-26-5	102	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	73	50-200	
1,4-Difluorobenzene	540-36-3	88	50-200	
Chlorobenzene-d5	3114-55-4	89	50-200	
Pentafluorobenzene	363-72-4	84	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	4.J
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	4.N
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	4.J
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	4.K
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	4.N
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	4.K
Benzyl alcohol	100-51-6	5.00	5.88	ug/L	4.J
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	4.N
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	4.K
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	4.J
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	4.C
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	104	38.5-145	
2-Fluorobiphenyl	321-60-8	77	40.4-114	
2-Fluorophenol	367-12-4	45	12.7-89.3	
Nitrobenzene-d5	4165-60-0	86	47.3-131	
Phenol-d6	13127-88-3	42	7.73-72.3	
Terphenyl-d14	1718-51-0	80	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	104	50-200	
Acenaphthene-d10	15067-26-2	98	50-200	
Chrysene-d12	1719-03-5	98	50-200	
Naphthalene-d8	1146-65-2	117	50-200	
Perylene-d12	1520-96-3	96	50-200	
Phenanthrene-d10	1517-22-2	110	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	47	57.4-130	4.D
Tetrachloro-m-xylene	877-09-8	40	51.9-129	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	87	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	62	34.8-127	
Tetrachloro-m-xylene	877-09-8	46	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	111	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	94	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	106	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	7.43	mg/L	
Chromium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.20	0.44	mg/L	
Lead	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	3.53	mg/L	
Manganese	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.14	mg/L	
Nickel	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	4.21	mg/L	
Silver	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	9.74	mg/L	
Thallium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 21:33	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 21:33	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	0.105	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	170	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	170	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-4
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-04
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	111	74.4-131	
4-Bromofluorobenzene	460-00-4	98	82.3-134	
Dibromofluoromethane	1868-53-7	128	79.4-122	4.E
Toluene-d8	2037-26-5	102	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	73	50-200	
1,4-Difluorobenzene	540-36-3	86	50-200	
Chlorobenzene-d5	3114-55-4	87	50-200	
Pentafluorobenzene	363-72-4	85	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	4.J
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	4.N
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	4.J
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	4.K
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	4.N
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	4.K
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	4.J
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	4.N
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	4.K
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	4.J
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	4.C
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	102	38.5-145	
2-Fluorobiphenyl	321-60-8	87	40.4-114	
2-Fluorophenol	367-12-4	60	12.7-89.3	
Nitrobenzene-d5	4165-60-0	88	47.3-131	
Phenol-d6	13127-88-3	46	7.73-72.3	
Terphenyl-d14	1718-51-0	81	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	88	50-200	
Acenaphthene-d10	15067-26-2	97	50-200	
Chrysene-d12	1719-03-5	89	50-200	
Naphthalene-d8	1146-65-2	105	50-200	
Perylene-d12	1520-96-3	87	50-200	
Phenanthrene-d10	1517-22-2	106	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	53	57.4-130	4.D
Tetrachloro-m-xylene	877-09-8	45	51.9-129	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	90	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	68	34.8-127	
Tetrachloro-m-xylene	877-09-8	50	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	113	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	94	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	105	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	7.70	mg/L	
Chromium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.20	0.40	mg/L	
Lead	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	3.42	mg/L	
Manganese	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.07	mg/L	
Nickel	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	4.27	mg/L	
Silver	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	9.24	mg/L	
Thallium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 21:56	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 21:56	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	<0.100	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	240	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	130	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:55	Sample ID: Pond-5
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-05
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	112	74.4-131	
4-Bromofluorobenzene	460-00-4	98	82.3-134	
Dibromofluoromethane	1868-53-7	126	79.4-122	4.E
Toluene-d8	2037-26-5	101	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	72	50-200	
1,4-Difluorobenzene	540-36-3	85	50-200	
Chlorobenzene-d5	3114-55-4	86	50-200	
Pentafluorobenzene	363-72-4	83	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	4.J
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	4.N
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	4.J
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	4.K
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	4.N
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	4.K
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	4.J
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	4.N
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	4.K
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	4.J
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	4.C
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	94	38.5-145	
2-Fluorobiphenyl	321-60-8	166	40.4-114	4.E
2-Fluorophenol	367-12-4	51	12.7-89.3	
Nitrobenzene-d5	4165-60-0	148	47.3-131	4.E
Phenol-d6	13127-88-3	41	7.73-72.3	
Terphenyl-d14	1718-51-0	157	45.7-139	4.E

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	96	50-200	
Acenaphthene-d10	15067-26-2	102	50-200	
Chrysene-d12	1719-03-5	99	50-200	
Naphthalene-d8	1146-65-2	97	50-200	
Perylene-d12	1520-96-3	87	50-200	
Phenanthrene-d10	1517-22-2	111	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/06/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	60	57.4-130	
Tetrachloro-m-xylene	877-09-8	48	51.9-129	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	100	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	79	34.8-127	
Tetrachloro-m-xylene	877-09-8	53	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	118	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	99	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	95	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	21.1	mg/L	
Chromium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.20	<0.20	mg/L	
Lead	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.10	36.8	mg/L	
Manganese	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.06	mg/L	
Nickel	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.25	15.7	mg/L	
Silver	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	2.50	323	mg/L	3.E
Thallium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/01/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 22:19	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 22:19	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	<0.100	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	920	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	540	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:48	Sample ID: FP-1
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-06
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.M, 4.K
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.M, 4.K
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	2.B, 4.K
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.M, 4.K
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.M, 4.K

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	116	74.4-131	
4-Bromofluorobenzene	460-00-4	96	82.3-134	
Dibromofluoromethane	1868-53-7	126	79.4-122	4.E
Toluene-d8	2037-26-5	103	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	73	50-200	
1,4-Difluorobenzene	540-36-3	85	50-200	
Chlorobenzene-d5	3114-55-4	87	50-200	
Pentafluorobenzene	363-72-4	84	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	83	38.5-145	
2-Fluorobiphenyl	321-60-8	78	40.4-114	
2-Fluorophenol	367-12-4	48	12.7-89.3	
Nitrobenzene-d5	4165-60-0	81	47.3-131	
Phenol-d6	13127-88-3	35	7.73-72.3	
Terphenyl-d14	1718-51-0	73	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	104	50-200	
Acenaphthene-d10	15067-26-2	99	50-200	
Chrysene-d12	1719-03-5	84	50-200	
Naphthalene-d8	1146-65-2	103	50-200	
Perylene-d12	1520-96-3	89	50-200	
Phenanthrene-d10	1517-22-2	91	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/08/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	60	57.4-130	
Tetrachloro-m-xylene	877-09-8	54	51.9-129	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	100	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	74	34.8-127	
Tetrachloro-m-xylene	877-09-8	60	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	116	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	91	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	101	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.25	0.38	mg/L	
Antimony	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.10	22.8	mg/L	
Chromium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.20	6.96	mg/L	
Lead	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.10	34.2	mg/L	
Manganese	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.38	mg/L	
Nickel	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.25	16.4	mg/L	
Selenium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Silver	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	2.50	295	mg/L	3.E, 4.M
Thallium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	0.10	mg/L	

Date Prepared: 11/05/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	<2.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 22:42	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.E
Nitrite as N	10/29/2018 22:42	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	0.113	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	920	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	350	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:58	Sample ID: FP-2
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-07
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Volatiles Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.00	<5.00	ug/L	
1,1,1-Trichloroethane	71-55-6	5.00	<5.00	ug/L	
1,1,2,2-Tetrachloroethane	79-34-5	5.00	<5.00	ug/L	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.00	<5.00	ug/L	4.K
1,1,2-Trichloroethane	79-00-5	5.00	<5.00	ug/L	
1,1-Dichloroethane	75-34-3	5.00	<5.00	ug/L	
1,1-Dichloroethene	75-35-4	5.00	<5.00	ug/L	
1,1-Dichloropropene	563-58-6	5.00	<5.00	ug/L	
1,2,3-Trichlorobenzene	87-61-6	5.00	<5.00	ug/L	
1,2,3-Trichloropropane	96-18-4	5.00	<5.00	ug/L	
1,2,4,5-Tetramethylbenzene	95-93-2	5.00	<5.00	ug/L	2.B
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2,4-Trimethylbenzene	95-63-6	5.00	<5.00	ug/L	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	<5.00	ug/L	4.J
1,2-Dibromoethane	106-93-4	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,2-Dichloroethane	107-06-2	5.00	<5.00	ug/L	
1,2-Dichloropropane	78-87-5	5.00	<5.00	ug/L	
1,3,5-Trimethylbenzene	108-67-8	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,3-Dichloropropane	142-28-9	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
1,4-Diethylbenzene	105-05-5	5.00	<5.00	ug/L	2.B
1,4-Dioxane	123-91-1	100	<100	ug/L	4.J
2,2-Dichloropropane	594-20-7	5.00	<5.00	ug/L	4.K, 4.M
2-Chloroethyl Vinyl Ether	110-75-8	5.00	<5.00	ug/L	4.J, 4.N
2-Chlorotoluene	95-49-8	5.00	<5.00	ug/L	
4-Chlorotoluene	106-43-4	5.00	<5.00	ug/L	
4-Ethyltoluene	622-96-8	5.00	<5.00	ug/L	2.B
4-Isopropyltoluene	99-87-6	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	5.00	<5.00	ug/L	
Acetone	67-64-1	10.0	<10.0	ug/L	
Acrolein	107-02-8	5.00	<5.00	ug/L	
Acrylonitrile	107-13-1	5.00	<5.00	ug/L	
Benzene	71-43-2	5.00	<5.00	ug/L	
Bromobenzene	108-86-1	5.00	<5.00	ug/L	
Bromochloromethane	74-97-5	5.00	<5.00	ug/L	
Bromodichloromethane	75-27-4	5.00	<5.00	ug/L	
Bromoform	75-25-2	5.00	<5.00	ug/L	
Bromomethane	74-83-9	5.00	<5.00	ug/L	4.K, 4.M
Carbon disulfide	75-15-0	5.00	<5.00	ug/L	
Carbon Tetrachloride	56-23-5	5.00	<5.00	ug/L	
Chlorobenzene	108-90-7	5.00	<5.00	ug/L	
Chlorodifluoromethane	75-45-6	5.00	<5.00	ug/L	4.K, 2.B
Chloroethane	75-00-3	5.00	<5.00	ug/L	
Chloroform	67-66-3	5.00	<5.00	ug/L	
Chloromethane	74-87-3	5.00	<5.00	ug/L	4.K, 4.M
cis-1,2-Dichloroethene	156-59-2	5.00	<5.00	ug/L	
cis-1,3-Dichloropropene	10061-01-5	5.00	<5.00	ug/L	
Dibromochloromethane	124-48-1	5.00	<5.00	ug/L	
Dibromomethane	74-95-3	5.00	<5.00	ug/L	
Dichlorodifluoromethane	75-71-8	5.00	<5.00	ug/L	4.K, 4.M
Ethylbenzene	100-41-4	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Isopropylbenzene (Cumene)	98-82-8	5.00	<5.00	ug/L	
m,p-Xylenes	108-38-3/106-42-3	10.0	<10.0	ug/L	
Methyl Acetate	79-20-9	5.00	<5.00	ug/L	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.0	<10.0	ug/L	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.0	<10.0	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.00	<5.00	ug/L	4.K
Methyl-tert-Butyl Ether	1634-04-4	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	
n-Butylbenzene	104-51-8	5.00	<5.00	ug/L	
n-Propylbenzene	103-65-1	5.00	<5.00	ug/L	
o-Xylene	95-47-6	5.00	<5.00	ug/L	
sec-Butylbenzene	135-98-8	5.00	<5.00	ug/L	
Styrene	100-42-5	5.00	<5.00	ug/L	
tert-Butyl alcohol	75-65-0	5.00	<5.00	ug/L	
tert-Butylbenzene	98-06-6	5.00	<5.00	ug/L	
Tetrachloroethene	127-18-4	5.00	<5.00	ug/L	
Toluene	108-88-3	5.00	<5.00	ug/L	
trans-1,2-Dichloroethene	156-60-5	5.00	<5.00	ug/L	
trans-1,3-Dichloropropene	10061-02-6	5.00	<5.00	ug/L	
Trichloroethene	79-01-6	5.00	<5.00	ug/L	
Trichlorofluoromethane	75-69-4	5.00	<5.00	ug/L	4.K
Vinyl Acetate	108-05-4	5.00	<5.00	ug/L	
Vinyl chloride	75-01-4	5.00	<5.00	ug/L	4.K, 4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	112	74.4-131	
4-Bromofluorobenzene	460-00-4	97	82.3-134	
Dibromofluoromethane	1868-53-7	122	79.4-122	4.E
Toluene-d8	2037-26-5	103	85-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	71	50-200	
1,4-Difluorobenzene	540-36-3	84	50-200	
Chlorobenzene-d5	3114-55-4	85	50-200	
Pentafluorobenzene	363-72-4	84	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5030 C

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	5.00	<5.00	ug/L	
1,2-Dichlorobenzene	95-50-1	5.00	<5.00	ug/L	
1,3-Dichlorobenzene	541-73-1	5.00	<5.00	ug/L	
1,4-Dichlorobenzene	106-46-7	5.00	<5.00	ug/L	
2,2'-Oxybis(1-Chloropropane)	108-60-1	5.00	<5.00	ug/L	
2,4,5-Trichlorophenol	95-95-4	5.00	<5.00	ug/L	
2,4,6-Trichlorophenol	88-06-2	5.00	<5.00	ug/L	
2,4-Dichlorophenol	120-83-2	5.00	<5.00	ug/L	
2,4-Dimethylphenol	105-67-9	5.00	<5.00	ug/L	
2,4-Dinitrophenol	51-28-5	10.0	<10.0	ug/L	
2,4-Dinitrotoluene	121-14-2	5.00	<5.00	ug/L	
2,6-Dinitrotoluene	606-20-2	5.00	<5.00	ug/L	
2-Chloronaphthalene	91-58-7	5.00	<5.00	ug/L	
2-Chlorophenol	95-57-8	5.00	<5.00	ug/L	
2-Methylnaphthalene	91-57-6	5.00	<5.00	ug/L	
2-Methylphenol	95-48-7	5.00	<5.00	ug/L	
2-Nitroaniline	88-74-4	5.00	<5.00	ug/L	
2-Nitrophenol	88-75-5	5.00	<5.00	ug/L	
3,3'-Dichlorobenzidine	91-94-1	5.00	<5.00	ug/L	
3/4-Methylphenol	108-39-4/106-44-5	5.00	<5.00	ug/L	
3-Nitroaniline	99-09-2	5.00	<5.00	ug/L	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	<10.0	ug/L	
4-Bromophenyl phenyl ether	101-55-3	5.00	<5.00	ug/L	
4-Chloro-3-methylphenol	59-50-7	5.00	<5.00	ug/L	
4-Chloroaniline	106-47-8	5.00	<5.00	ug/L	
4-Chlorophenyl phenyl ether	7005-72-3	5.00	<5.00	ug/L	
4-Nitroaniline	100-01-6	5.00	<5.00	ug/L	
4-Nitrophenol	100-02-7	5.00	<5.00	ug/L	
Acenaphthene	83-32-9	5.00	<5.00	ug/L	
Acenaphthylene	208-96-8	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	5.00	<5.00	ug/L	
Anthracene	120-12-7	5.00	<5.00	ug/L	
Benzo(a)anthracene	56-55-3	5.00	<5.00	ug/L	
Benzo(a)pyrene	50-32-8	5.00	<5.00	ug/L	
Benzo(b)fluoranthene	205-99-2	5.00	<5.00	ug/L	
Benzo(g,h,i)perylene	191-24-2	5.00	<5.00	ug/L	
Benzo(k)fluoranthene	207-08-9	5.00	<5.00	ug/L	
Benzoic Acid	65-85-0	10.0	<10.0	ug/L	
Benzyl alcohol	100-51-6	5.00	<5.00	ug/L	
bis(2-Chloroethoxy)methane	111-91-1	5.00	<5.00	ug/L	
Bis(2-Chloroethyl)ether	111-44-4	5.00	<5.00	ug/L	
Bis(2-Ethylhexyl)phthalate	117-81-7	5.00	<5.00	ug/L	
Butyl benzyl phthalate	85-68-7	5.00	<5.00	ug/L	
Carbazole	86-74-8	5.00	<5.00	ug/L	
Chrysene	218-01-9	5.00	<5.00	ug/L	
Dibenzo(a,h)anthracene	53-70-3	5.00	<5.00	ug/L	
Dibenzofuran	132-64-9	5.00	<5.00	ug/L	
Dimethyl phthalate	131-11-3	5.00	<5.00	ug/L	
Di-n-butyl phthalate	84-74-2	5.00	<5.00	ug/L	
Di-n-octyl phthalate	117-84-0	5.00	<5.00	ug/L	
Fluoranthene	206-44-0	5.00	<5.00	ug/L	
Fluorene	86-73-7	5.00	<5.00	ug/L	
Hexachlorobenzene	118-74-1	5.00	<5.00	ug/L	
Hexachlorobutadiene	87-68-3	5.00	<5.00	ug/L	
Hexachlorocyclopentadiene	77-47-4	5.00	<5.00	ug/L	
Hexachloroethane	67-72-1	5.00	<5.00	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	5.00	<5.00	ug/L	
Isophorone	78-59-1	5.00	<5.00	ug/L	
Naphthalene	91-20-3	5.00	<5.00	ug/L	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Nitrobenzene	98-95-3	5.00	<5.00	ug/L	
N-Nitrosodimethylamine	62-75-9	5.00	<5.00	ug/L	
N-Nitroso-di-n-propylamine	621-64-7	5.00	<5.00	ug/L	
N-Nitrosodiphenylamine	86-30-6	5.00	<5.00	ug/L	
Pentachlorophenol	87-86-5	5.00	<5.00	ug/L	
Phenanthrene	85-01-8	5.00	<5.00	ug/L	
Phenol	108-95-2	5.00	<5.00	ug/L	
Pyrene	129-00-0	5.00	<5.00	ug/L	
Pyridine	110-86-1	10.0	<10.0	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	87	38.5-145	
2-Fluorobiphenyl	321-60-8	72	40.4-114	
2-Fluorophenol	367-12-4	47	12.7-89.3	
Nitrobenzene-d5	4165-60-0	78	47.3-131	
Phenol-d6	13127-88-3	36	7.73-72.3	
Terphenyl-d14	1718-51-0	69	45.7-139	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	97	50-200	
Acenaphthene-d10	15067-26-2	87	50-200	
Chrysene-d12	1719-03-5	78	50-200	
Naphthalene-d8	1146-65-2	100	50-200	
Perylene-d12	1520-96-3	81	50-200	
Phenanthrene-d10	1517-22-2	83	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/08/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	1.00	<1.00	ug/L	4.M
4,4'-DDE	72-55-9	1.00	<1.00	ug/L	4.M
4,4'-DDT	50-29-3	1.00	<1.00	ug/L	
Aldrin	309-00-2	1.00	<1.00	ug/L	4.M
alpha-BHC	319-84-6	1.00	<1.00	ug/L	4.M
beta-BHC	319-85-7	1.00	<1.00	ug/L	4.M
Chlordane	12789-03-6	1.00	<1.00	ug/L	
cis-Chlordane	5103-71-9	1.00	<1.00	ug/L	4.M
delta-BHC	319-86-8	1.00	<1.00	ug/L	
Dieldrin	60-57-1	1.00	<1.00	ug/L	
Endosulfan I	959-98-8	1.00	<1.00	ug/L	
Endosulfan II	33213-65-9	1.00	<1.00	ug/L	
Endosulfan Sulfate	1031-07-8	1.00	<1.00	ug/L	
Endrin	72-20-8	1.00	<1.00	ug/L	
Endrin Aldehyde	7421-93-4	1.00	<1.00	ug/L	
Endrin Ketone	53494-70-5	1.00	<1.00	ug/L	4.M
gamma-BHC	58-89-9	1.00	<1.00	ug/L	4.M
Heptachlor	76-44-8	1.00	<1.00	ug/L	
Heptachlor Epoxide	1024-57-3	1.00	<1.00	ug/L	4.M
Methoxychlor	72-43-5	1.00	<1.00	ug/L	4.M
Toxaphene	8001-35-2	1.00	<1.00	ug/L	
trans-Chlordane	5103-74-2	1.00	<1.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	71	57.4-130	
Tetrachloro-m-xylene	877-09-8	64	51.9-129	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	92	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/07/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	0.125	<0.125	ug/L	
Aroclor-1221	11104-28-2	0.125	<0.125	ug/L	
Aroclor-1232	11141-16-5	0.125	<0.125	ug/L	
Aroclor-1242	53469-21-9	0.125	<0.125	ug/L	
Aroclor-1248	12672-29-6	0.125	<0.125	ug/L	
Aroclor-1254	11097-69-1	0.125	<0.125	ug/L	
Aroclor-1260	11096-82-5	0.125	<0.125	ug/L	4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	93	34.8-127	
Tetrachloro-m-xylene	877-09-8	73	45.7-130	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	118	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 608.3

Date Analyzed: 11/06/2018

Analytical Method: EPA 608.3

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	1.00	<1.00	ug/L	
2,4,5-TP (Silvex)	93-72-1	1.00	<1.00	ug/L	
2,4-D	94-75-7	5.00	<5.00	ug/L	4.M
Dicamba	1918-00-9	5.00	<5.00	ug/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	94	19.3-133	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	97	50-200	

Date Prepared: 11/02/2018

Preparation Method: EPA 3510 C

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.25	<0.25	mg/L	
Antimony	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Arsenic	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Barium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	1.00	<1.00	mg/L	
Beryllium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.02	<0.02	mg/L	
Cadmium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Calcium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.10	18.9	mg/L	
Chromium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Cobalt	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Copper	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Iron	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.20	0.25	mg/L	
Lead	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Magnesium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.10	7.30	mg/L	
Manganese	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Nickel	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Potassium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.25	1.18	mg/L	
Selenium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Silver	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Sodium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.25	19.3	mg/L	4.M
Thallium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Vanadium	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	
Zinc	11/05/2018	EPA 200.7, Rev. 4.4(1994)	0.05	<0.05	mg/L	

Date Prepared: 11/05/2018 Preparation Method: EPA 200.2

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/01/2018	EPA 245.1, Rev. 3.0(1994)	0.002	<0.002	mg/L	

Date Prepared: 10/31/2018 Preparation Method: EPA 245.1

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 11:48	Calculation	2.00	7.08	mg/L	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/29/2018 23:04	EPA 300.0 Rev. 2.1(1993)	0.50	7.08	mg/L	4.F, 3.E
Nitrite as N	10/29/2018 23:04	EPA 300.0 Rev. 2.1(1993)	0.50	<0.50	mg/L	3.A, 4.G

Date Prepared: 10/29/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 11:48	SM 4500 NH3 C-2011	1.00	<1.00	mg/L	

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/07/2018 15:55	SM 4500-P E-2011	0.100	<0.100	mg/L	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	7.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:20	Sample ID: IW
Date (Time) Received: 10/29/2018 14:28	Laboratory ID: 8102913-08
Matrix: Non-Potable Water	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:52	EPA 1613B	11	<11	pg/L	6.W

Date Prepared: 11/06/2018

Preparation Method: Outside Preparation

Data Qualifiers Key Reference:

2.B	Parameter not certifiable by NELAP.
3.A	Reporting limit raised due to matrix interference.
3.E	Compound reported at a dilution factor.
4.C	Target compound found in blank.
4.D	Surrogate recovery has failed low.
4.E	Surrogate recovery has failed high.
4.F	Spike recovery does not meet QC criteria due to high target compound concentration.
4.G	Spike recovery out of range due to matrix interference.
4.J	Continuing Calibration Verification (CCV) quality control levels failed low, values are considered to be estimated.
4.K	Continuing Calibration Verification (CCV) quality control levels failed high, values are considered to be estimated.
4.M	LCS recovery was above QC acceptance limit.
4.N	LCS recovery was below QC acceptance limit.
6.W	Subcontractor ELAP #10842
MDL	Minimum Detection Limit
LOQ	Limit of Quantitation

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
www.lialinc.com
110 Colin Drive • Holbrook, New York 11741 • Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: NPV, 572 Walt Whitman Rd, Melville, N.Y. 11747
CONTACT: Steve McClin
PHONE: 427-5665
EMAIL:
PROJECT LOCATION: IHCC
SAMPLER (SIGNATURE):
SAMPLER NAME (PRINT): Jonathan McGlin
SAMPLE(S) SEALED: YES / NO
CORRECT CONTAINER(S): YES / NO
8102913
SAMPLES RECEIVED AT: 1.7 °C

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month. Tendering of samples to LIAL for analytical testing constitutes agreement by buyer/sampler to LIAL's Standard terms

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	pH	RES. CHLORINE	PRES.	DATE	TIME	SAMPLE # LOCATION	ANALYSIS REQUIRED: 8260	8270	RCRA+23	8081	8151	8082	Nitrogen	Total + fecal coliform	Total Nitrogen	Phosphorus	# OF CONTAINERS
1. 8102913-01	WW	G			1	10/29/18	9:01	Pond-1	X	X	X	X	X	X	X	X	X	X	10
2. 02					1		9:15	Pond-2											
3. 03					1		9:40	Pond-3											
4. 04					1		9:55	Pond-4											
5. 05					1		10:08	Pond-5											
6. 06					1		10:48	FP-1											
7. 07					1		10:58	FP-2											
8. 08					1		10:20	IW											
9.																			
10.																			
11.																			
12.																			
13.																			
14.																			

~~Sample Preserved w/HNO3 By:~~ CLIENT
~~Sample Preserved w/HNO3 By:~~ H_2SO_4 CLIENT

MATRIX: S=SOIL; SL=SLUDGE; DW=DRINKING WATER; A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL, O=OIL, WW=WASTE WATER
TYPE: G=GRAB; C=COMPOSITE; SS=SPLIT SPOON
PRES: (1) ICE; (2) HCL; (3) H_2SO_4; (4) NAOH; (5) $NA_2S_3O_3$; (6) HNO_3; (7) OTHER

TURNAROUND REQUIRED: ☒ NORMAL ☐ STAT
BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY (SIGNATURE)	DATE / TIME	PRINTED NAME
	10/29/18 1:25	Jonathan McGlin		10-29-18 1308	Ben Lamberson
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY SAMPLE CUSTODIAN	DATE / TIME	PRINTED NAME
				10-29-18 1308	Ben Lamberson

WHITE - OFFICE / CANARY - CLIENT

REQUIRED CONTAINERS, PRESERVATION TECHNIQUES & HOLDING TIMES

NAME	CONTAINER[1]	PRESERVATION	MAX. HOLDING TIME
Bacterial Tests:			
Coliform, fecal & total	P,G	Cool 4°C, 0.008%$Na_2S_2O_3$ if cholorinated	6 hours
Fecal streptococci	P,G	Cool 4°C, 0.008%$Na_2S_2O_3$ if cholorinated	6 hours
Inorganic Tests:			
Acidity	P,G	Cool 4°C	14 days
Alkalinity	P,G	Cool 4°C	14 days
Ammonia	P,G	Cool 4°C, $H_2SO_4$to pH<2	28 days
BOD	P,G	Cool 4°C	48 hours
Bromide	P,G	None required	28 days
BOD, carbonaceous	P,G	Cool 4°C	48 hours
Chemical oxygen demand	P,G	Cool 4°C, H2SO4to pH<2	28 days
Chloride	P,G	None required	28 days
Chlorine, total residual	P,G	None requried	Analyze Immediately
Color	P,G	Cool 4°C	48 hours
Cyanide, total and amenable to chlorination	P,G	Cool, 4°C, NaOH to pH 12	14 days
Fluoride	P	None required	28 days
Hardness	P,G	$HNO_3$to pH<2, $H_2SO_4$to pH<2	6 months
Hydrogen ion (pH)	P,G	None required	Analyze Immediately
Kjedahl and organic nitrogen	P,G	Cool 4°C, $H_2SO_4$to pH<2	28 days
Metals:			
Chromium VI	P, G	Cool 4°C	24 hours
Mercury	P, G	NHO_3 to pH<2	28 days
Metals, except Chromium VI & mercury	P, G	NHO_3 to pH<2	6 months
Nitrate	P, G	Cool, 4°C	48 hours
Nitrate-nitrite	P, G	Cool, 4°C, H_2SO_4 to pH <2	28 days
Nitrite	P, G	Cool, 4°C	48 hours
Oil and grease	G	Cool, 4°C, H_2SO_4 to pH <2	28 days
Organic carbon	P,G	Cool, 4°C, HCl or H_2SO_4 to pH <2	28 days
Orthophosphate	P, G	Filter Immediately, cool, 4C°	48 hours
Oxygen, Dissolved Probe	G Bottle and top	None required	Analyze immediately
Winkler	G Bottle and top	Fix on site and store in dark	48 hours
Phenols	G	Cool, 4°C, Ph_3O_4 to pH <2	28 days
Phosphorus (elemental)	G	Cool, 4°C	48 hours
Phosphorus, total	P, G	Cool, 4°C, H_2SO_4 to pH <2	28 days
Residue, total	P, G	Cool, 4°C	7 days
Residue, filterable	P, G	Cool, 4°C	7 days
Residue, Nonfilterable (TSS)	P, G	Cool, 4°C	7 days
Residue, Settleable	P, G	Cool, 4°C	48 hours
Residue, Volatile	P, G	Cool, 4°C	7 days
Silica	P	Cool, 4°C	28 days
Specific conductance	P, G	Cool, 4°C	28 days
Sulfate	P, G	Cool, 4°C	28 days
Sulfide	P, G	Cool, 4°C, add zinc acetate + NaOH to pH>9	7 days
Sulfite	P, G	None required	Analyze immediately
Surfactants	P, G	Cool, 4°C	48 hours
Temperature	P, G	None required	Analyze immediately
Turbidity	P, G	Cool, 4°C	48 hours
Organic Tests:			
Purgeable Halocarbons	G, Teflon-lined septum	Cool, 4°C, 0.0008% $Na_2S_2O_3$	14 days
Purgeable aromatic hydrocarbons	G, Teflon-lined septum	Cool, 4°C, 0.0008% $Na_2S_2O_3$HCl to pH <2	14 days
Acrolein and acrylonitrile	G, Teflon-lined septum	Cool, 4°C, 0.0008% $Na_2S_2O_3$Adjust pH to 4-5	14 days
Phenols	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	7 days until extraction
Benzidines	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	7 days until extraction
Phthalate esters	G, Teflon-lined cap	Cool, 4°C	7 days until extraction
Nitrosamines	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$, store in dark	40 days after extraction
PCBs, acrylonitrile	G, Teflon-lined cap	Cool, 4°C	40 days after extraction
Nitroaromatics and isophorone	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$, store in dark	40 days after extraction
Polynuclear aromatic hydrocarbons	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$, store in dark	40 days after extraction
Haloethers	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	40 days after extraction
Chlorinated hydrocarbons	G, Teflon-lined cap	Cool, 4°C	40 days after extraction
TOC	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	7 days
Pesticides Tests:			
Pesticides	G, Teflon-lined cap	Cool, 4°C, pH 5-9	40 days after extraction

[1]Polyethylene (P) or Glass(G)

TestAmerica Savannah
5102 LaRoche Avenue

Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☒NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: MD VERHOEVEN	Site Contact:	Date: 10/29/18	COC No:
Long Island Analytical Labs	Tel/Fax: 631-472-3400	Lab Contact:	Carrier: FED EX	____ of ____ COCs
110 Colin Drive	Analysis Turnaround Time			Sampler:
Holbrook, NY 11741	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
631-472-3400 Phone	TAT if different from Below ____			Walk-in Client:
631-472-8505 FAX	☑ 2 weeks			Lab Sampling:
Project Name: PFCs	☐ 1 week			
Site: IHCC	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	1631A DIOXIN	Sample Specific Notes:
8102913-01	10-29-18	0901	G	WW	1			X	
02		0915	G		1			X	
03		0940	G		1			X	
04		0955	G		1			X	
05		1008	G		1			X	
06		1048	G		1			X	
07		1058	G		1			X	
08		1010	G		1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____

Relinquished by: Ben Lamberson	Company: LIAL	Date/Time: 10/29/18 1445	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-160015-1
Client Project/Site: IHCC / 8102913

For:
Long Island Analytical Laboratories Inc
110 Colin Drive
Holbrook, New York 11741

Attn: Michael D Veraldi

Authorized for release by:
11/16/2018 4:09:24 PM

Sheila Hoffman, Project Manager II
(912)250-0279
sheila.hoffman@testamericainc.com

Method Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Method	Method Description	Protocol	Laboratory
1613B	Dioxins and Furans (HRGC/HRMS)	40CFR136A	TAL KNX
HRMS-Sepf	Separatory Funnel (Liquid-Liquid) Extraction	EPA	TAL KNX

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-160015-2	8102913 - 01	Water	10/29/18 09:01	10/31/18 09:24
680-160015-3	8102913 - 02	Water	10/29/18 09:15	10/31/18 09:24
680-160015-5	8102913 - 04	Water	10/29/18 09:55	10/31/18 09:24
680-160015-6	8102913 - 05	Water	10/29/18 10:08	10/31/18 09:24
680-160015-7	8102913 - 06	Water	10/29/18 10:48	10/31/18 09:24
680-160015-8	8102913 - 07	Water	10/29/18 10:58	10/31/18 09:24
680-160015-9	8102913 - 08	Water	10/29/18 10:20	10/31/18 09:24

Definitions/Glossary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Qualifiers

Dioxin

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-160015-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Long Island Analytical Laboratories Inc

Project: IHCC / 8102913

Report Number: 680-160015-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/31/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

TETRA CHLORINATED DIOXINS & FURANS ID HRGC/HRMS

Samples 8102913 - 01 (680-160015-2), 8102913 - 02 (680-160015-3), 8102913 - 04 (680-160015-5), 8102913 - 05 (680-160015-6), 8102913 - 06 (680-160015-7), 8102913 - 07 (680-160015-8) and 8102913 - 08 (680-160015-9) were analyzed for Tetra Chlorinated Dioxins & Furans ID HRGC/HRMS in accordance with EPA Method 1613B. The samples were prepared on 11/06/2018 and analyzed on 11/14/2018 and 11/16/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: 8102913 - 01

Lab Sample ID: 680-160015-2
Date Collected: 10/29/18 09:01
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1	U	11	1.1	pg/L		11/06/18 07:31	11/14/18 05:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*72*		*25 - 164*	*11/06/18 07:31*	*11/14/18 05:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*94*		*35 - 197*	*11/06/18 07:31*	*11/14/18 05:59*	*1*

Client Sample ID: 8102913 - 02

Lab Sample ID: 680-160015-3
Date Collected: 10/29/18 09:15
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1	U	10	1.1	pg/L		11/06/18 07:31	11/14/18 07:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*72*		*25 - 164*	*11/06/18 07:31*	*11/14/18 07:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*97*		*35 - 197*	*11/06/18 07:31*	*11/14/18 07:01*	*1*

Client Sample ID: 8102913 - 04

Lab Sample ID: 680-160015-5
Date Collected: 10/29/18 09:55
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.3	U	11	1.3	pg/L		11/06/18 07:31	11/16/18 03:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*78*		*25 - 164*	*11/06/18 07:31*	*11/16/18 03:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*100*		*35 - 197*	*11/06/18 07:31*	*11/16/18 03:05*	*1*

Client Sample ID: 8102913 - 05

Lab Sample ID: 680-160015-6
Date Collected: 10/29/18 10:08
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.82	U	10	0.82	pg/L		11/06/18 07:31	11/16/18 04:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*73*		*25 - 164*	*11/06/18 07:31*	*11/16/18 04:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*99*		*35 - 197*	*11/06/18 07:31*	*11/16/18 04:05*	*1*

Client Sample ID: 8102913 - 06

Lab Sample ID: 680-160015-7
Date Collected: 10/29/18 10:48
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.92	U	10	0.92	pg/L		11/06/18 07:31	11/16/18 05:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*25 - 164*	*11/06/18 07:31*	*11/16/18 05:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*101*		*35 - 197*	*11/06/18 07:31*	*11/16/18 05:07*	*1*

Client Sample ID: 8102913 - 07

Lab Sample ID: 680-160015-8
Date Collected: 10/29/18 10:58
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.86	U	11	0.86	pg/L		11/06/18 07:31	11/16/18 06:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*74*		*25 - 164*	*11/06/18 07:31*	*11/16/18 06:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*97*		*35 - 197*	*11/06/18 07:31*	*11/16/18 06:08*	*1*

Client Sample ID: 8102913 - 08

Lab Sample ID: 680-160015-9
Date Collected: 10/29/18 10:20
Matrix: Water
Date Received: 10/31/18 09:24

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1	U	11	1.1	pg/L		11/06/18 07:31	11/16/18 07:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*66*		*25 - 164*	*11/06/18 07:31*	*11/16/18 07:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*95*		*35 - 197*	*11/06/18 07:31*	*11/16/18 07:10*	*1*

Isotope Dilution Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)							
680-160015-2	8102913 - 01	72							
680-160015-3	8102913 - 02	72							
680-160015-5	8102913 - 04	78							
680-160015-6	8102913 - 05	73							
680-160015-7	8102913 - 06	80							
680-160015-8	8102913 - 07	74							
680-160015-9	8102913 - 08	66							
MB 140-25102/15-A	Method Blank	73							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)							
LCS 140-25102/16-A	Lab Control Sample	66							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 140-25102/15-A
Matrix: Water
Analysis Batch: 25352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25102

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.82	U	10	0.82	pg/L		11/06/18 07:31	11/14/18 01:52	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*73*		*25 - 164*	*11/06/18 07:31*	*11/14/18 01:52*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*96*		*35 - 197*	*11/06/18 07:31*	*11/14/18 01:52*	*1*

Lab Sample ID: LCS 140-25102/16-A
Matrix: Water
Analysis Batch: 25352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25102

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD			200	216		pg/L		108	67 - 158		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*66*		*20 - 175*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*97*		*31 - 191*

QC Association Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Specialty Organics

Prep Batch: 25102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-2	8102913 - 01	Total/NA	Water	HRMS-Sepf	
680-160015-3	8102913 - 02	Total/NA	Water	HRMS-Sepf	
680-160015-5	8102913 - 04	Total/NA	Water	HRMS-Sepf	
680-160015-6	8102913 - 05	Total/NA	Water	HRMS-Sepf	
680-160015-7	8102913 - 06	Total/NA	Water	HRMS-Sepf	
680-160015-8	8102913 - 07	Total/NA	Water	HRMS-Sepf	
680-160015-9	8102913 - 08	Total/NA	Water	HRMS-Sepf	
MB 140-25102/15-A	Method Blank	Total/NA	Water	HRMS-Sepf	
LCS 140-25102/16-A	Lab Control Sample	Total/NA	Water	HRMS-Sepf	

Analysis Batch: 25352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-2	8102913 - 01	Total/NA	Water	1613B	25102
680-160015-3	8102913 - 02	Total/NA	Water	1613B	25102
MB 140-25102/15-A	Method Blank	Total/NA	Water	1613B	25102
LCS 140-25102/16-A	Lab Control Sample	Total/NA	Water	1613B	25102

Analysis Batch: 25453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-5	8102913 - 04	Total/NA	Water	1613B	25102
680-160015-6	8102913 - 05	Total/NA	Water	1613B	25102
680-160015-7	8102913 - 06	Total/NA	Water	1613B	25102
680-160015-8	8102913 - 07	Total/NA	Water	1613B	25102
680-160015-9	8102913 - 08	Total/NA	Water	1613B	25102

Lab Chronicle

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Client Sample ID: 8102913 - 01
Date Collected: 10/29/18 09:01
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			919 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25352	11/14/18 05:59	PMP	TAL KNX
	Instrument ID: D11A									

Client Sample ID: 8102913 - 02
Date Collected: 10/29/18 09:15
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			978.1 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25352	11/14/18 07:01	PMP	TAL KNX
	Instrument ID: D11A									

Client Sample ID: 8102913 - 04
Date Collected: 10/29/18 09:55
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			929.8 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25453	11/16/18 03:05	PMP	TAL KNX
	Instrument ID: D11A									

Client Sample ID: 8102913 - 05
Date Collected: 10/29/18 10:08
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			968.8 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25453	11/16/18 04:05	PMP	TAL KNX
	Instrument ID: D11A									

Client Sample ID: 8102913 - 06
Date Collected: 10/29/18 10:48
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			959.4 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25453	11/16/18 05:07	PMP	TAL KNX
	Instrument ID: D11A									

Lab Chronicle

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102913

TestAmerica Job ID: 680-160015-1

Client Sample ID: 8102913 - 07

Date Collected: 10/29/18 10:58
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			936.7 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25453	11/16/18 06:08	PMP	TAL KNX
	Instrument ID: D11A									

Client Sample ID: 8102913 - 08

Date Collected: 10/29/18 10:20
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sepf			893.8 mL	20 uL	25102	11/06/18 07:31	BRS	TAL KNX
Total/NA	Analysis	1613B		1			25453	11/16/18 07:10	PMP	TAL KNX
	Instrument ID: D11A									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Chain of Custody Record

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☒NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: MD VERACCI	Site Contact:	Date: 10/29/18	COC No:
Long Island Analytical Labs	Tel/Fax: 631-472-8400	Lab Contact:	Carrier: FED EX	____ of ____ COCs
110 Colin Drive	Analysis Turnaround Time			Sampler:
Holbrook, NY 11741	☒CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
631-472-3400 Phone	TAT if different from Below ____			Walk-in Client:
631-472-8505 FAX	☐ 2 weeks			Lab Sampling:
Project Name: PFCs	☐ 1 week			
Site: IHCC	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	1,4-Dioxane	Sample Specific Notes
810293-01	10-24-18	0901	G	WW	1			X	
02		0915	G		1			X	
03		0940	G		1			X	
04		0955	G		1			X	
05		1008	G		1			X	
06		1048	G		1			X	
07		1058	G		1			X	
08		1010	G		1			X	

680-160015 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: Ben Lamberson	Company: CIAL	Date/Time: 10/29/18 1445	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company	Date/Time:
Relinquished by:	Company	Date/Time:	Received in Laboratory by:	Company	Date/Time: 10.31.18 0924

2.0/2.2

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Chain of Custody Record

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☒Other: SOIL

Client Contact	Project Manager: M. DVORACDI	Site Contact:	Date:	COC No:
Long Island Analytical Labs	Tel/Fax:	Lab Contact:	Carrier:	___ of ___ COCs
110 Colin Drive	Analysis Turnaround Time			Sampler:
Holbrook, NY 11741	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
631-472-3400 Phone	TAT if different from Below ___			Walk-in Client:
631-472-8505 FAX	☐ 2 weeks			Lab Sampling:
Project Name: PFCs	☐ 1 week			
Site: THCC	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Dioxin	Sample Specific Notes
8102915-01	10-29-18	0906	G	S	1			X	
02		0925			1			X	
03		0949			1			X	
04		1001			1			X	
05		1012			1			X	
06		1050			1			X	
07		1100			1			X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3; 5=NaOH; 6= Other ___

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ___ Corr'd: ___ | Therm ID No.: ___

Relinquished by: Ben Lamberson	Company: CAL	Date/Time: 10/29/18 3?4	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 10.31.18 0924

2.0/2.2

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-541778.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sheila.hoffman@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 680-160015-1
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 11/19/2018			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: IHCC / 8102913	Project #: 68018169			
Site:	SSOW#:			

Analysis Requested

680-160015 Chain of Custody

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B_DW/1613B_P_Sep Tetra Chlorinated Dioxin	Total Num	Special Instructions/Note:
			Preservation Code:						
8102913 - 01 (680-160015-2)	10/29/18	09:01 Eastern		Water			X	1	CUSTODY SEALS INTACT
8102913 - 02 (680-160015-3)	10/29/18	09:15 Eastern		Water			X	1	RECEIVED AT RT 0.1/CTD 2°C
8102913 - 04 (680-160015-5)	10/29/18	09:55 Eastern		Water			X	1	SVD 11-2-18
8102913 - 05 (680-160015-6)	10/29/18	10:08 Eastern		Water			X	1	COOLER FEDEX #
8102913 - 06 (680-160015-7)	10/29/18	10:48 Eastern		Water			X	1	419113352729 PO
8102913 - 07 (680-160015-8)	10/29/18	10:58 Eastern		Water			X	1	
8102913 - 08 (680-160015-9)	10/29/18	10:20 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: V-	Date/Time: 10-1-18 935	Company TA	Received by:	Date/Time: 11-2-18 09:30	Company TA KNX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

11/16/2018

Loc: 680
160015

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number: _____

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	✓			☐ **Containers, Broken**	
2. Were ambient air containers received intact?			✓	☐ Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	✓			☐ Yes ☐ NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID :_____ Correction factor: _____	✓			☐ **Cooler Out of Temp, Client Contacted, Proceed/Cancel** ☐ **Cooler Out of Temp, Same Day Receipt**	
5. Were all of the sample containers received intact?	✓			☐ **Containers, Broken**	
6. Were samples received in appropriate containers?	✓			☐ **Containers, Improper; Client Contacted; Proceed/Cancel**	
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **COC & Samples Do Not Match** ☐ **COC Incorrect/Incomplete** ☐ **COC Not Received**	
8. Were all of the samples listed on the COC received?	✓			☐ **Sample Received, Not on COC** ☐ **Sample on COC, Not Received**	
9. Is the date/time of sample collection noted?	✓			☐ **COC; No Date/Time; Client Contacted**	
10. Was the sampler identified on the COC?			✓	☐ **Sampler Not Listed on COC**	
11. Is the client and project name/# identified?	✓			☐ **COC Incorrect/Incomplete**	
12. Are tests/parameters listed for each sample?	✓			☐ **COC No tests on COC**	
13. Is the matrix of the samples noted?	✓			☐ **COC Incorrect/Incomplete**	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **COC Incorrect/Incomplete**	
15. Were samples received within holding time?	✓			☐ **Holding Time - Receipt**	
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **pH Adjusted, pH Included (See box 16A)** ☐ **Incorrect Preservative**	
17. Were VOA samples received without headspace?			✓	☐ **Headspace (VOA only)**	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: 7942020/24	✓			☐ **Residual Chlorine**	
19. For 1613B water samples is pH<9?	✓			☐ If no, lab will adjust	
20. For rad samples was sample activity info. Provided?			✓	☐ Project missing info	

Labeling Verified by: _____ **Date:** _____

pH test strip lot number: HC849161

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: 11-2-18

QA026R30.doc, 080916

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Sample Receiving Notes

Job: 680-160015 Field Sheet

Tracking # 4191 1335 2730 SO / PO / FO / 2-Day / SAT / Ground / UPS / Courier / Drop Off / GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations File in the job folder with the COC.

Notes: _____

Therm. ID: AK-2 / AK-3 / AK-5 / AK-6 / HACCP / Other _____ (+0.7°C)

Ice — Wet — Gel _____ Other _____

Cooler Custody Seal: 485503

Sample Custody Seal: —

Cooler ID: —

Temp: Observed 4.5 Corrected 4.5

From: Temp Blank ☐ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
CoC is complete w/o discrepancies?	☑	☐	☐
Samples received within holding time?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Cooler compromised/tampered with?	☐	☑	☐
Samples compromised/tampered with?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Sample containers have legible labels?	☑	☐	☐
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided.	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐
Sample temp OK?	☑	☐	☐
Sample out of temp?	☐	☑	☐

Initials: MG Date: 11-2-18

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W22B

Login Sample Receipt Checklist

Client: Long Island Analytical Laboratories Inc

Job Number: 680-160015-1

Login Number: 160015
List Number: 1
Creator: Laughlin, Paul D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Long Island Analytical Laboratories Inc
TestAmerica Job ID: 680-160015-1
Project/Site: IHCC / 8102913

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-19

Laboratory: TestAmerica Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		N/A	
ANAB	DoD ELAP		L2311	02-13-19
Arkansas DEQ	State Program	6	88-0688	06-16-19
California	State Program	9	2423	06-30-19
Colorado	State Program	8	TN00009	02-28-19
Connecticut	State Program	1	PH-0223	09-30-19
Florida	NELAP	4	E87177	06-30-19
Georgia	State Program	4	906	04-13-20
Hawaii	State Program	9	N/A	04-13-19
Kansas	NELAP	7	E-10349	10-31-19
Kentucky (DW)	State Program	4	90101	12-31-18
Louisiana	NELAP	6	83979	06-30-19
Louisiana (DW)	NELAP	6	LA160005	12-31-18
Maryland	State Program	3	277	03-31-19
Michigan	State Program	5	9933	04-13-20
Nevada	State Program	9	TN00009	07-31-19
New Jersey	NELAP	2	TN001	06-30-19
New York	NELAP	2	10781	03-31-19
North Carolina (DW)	State Program	4	21705	07-31-19
North Carolina (WW/SW)	State Program	4	64	12-31-18
Ohio VAP	State Program	5	CL0059	08-28-20
Oklahoma	State Program	6	9415	08-31-19
Oregon	NELAP	10	TNI0189	01-01-19
Pennsylvania	NELAP	3	68-00576	12-31-18
Tennessee	State Program	4	2014	04-13-20
Texas	NELAP	6	T104704380-16-9	08-31-19
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-16-00262	08-20-19
Utah	NELAP	8	TN00009	07-31-19
Virginia	NELAP	3	460176	09-14-19
Washington	State Program	10	C593	01-19-19
West Virginia (DW)	State Program	3	9955C	12-31-18
West Virginia DEP	State Program	3	345	04-30-19
Wisconsin	State Program	5	998044300	08-31-19

Accreditation/Certification Summary

Client: Long Island Analytical Laboratories Inc
TestAmerica Job ID: 680-160015-1
Project/Site: IHCC / 8102913

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-19

Laboratory: TestAmerica Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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ANAB	DoD ELAP		L2311	02-13-19
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Colorado	State Program	8	TN00009	02-28-19
Connecticut	State Program	1	PH-0223	09-30-19
Florida	NELAP	4	E87177	06-30-19
Georgia	State Program	4	906	04-13-20
Hawaii	State Program	9	N/A	04-13-19
Kansas	NELAP	7	E-10349	10-31-19
Kentucky (DW)	State Program	4	90101	12-31-18
Louisiana	NELAP	6	83979	06-30-19
Louisiana (DW)	NELAP	6	LA160005	12-31-18
Maryland	State Program	3	277	03-31-19
Michigan	State Program	5	9933	04-13-20
Nevada	State Program	9	TN00009	07-31-19
New Jersey	NELAP	2	TN001	06-30-19
New York	NELAP	2	10781	03-31-19
North Carolina (DW)	State Program	4	21705	07-31-19
North Carolina (WW/SW)	State Program	4	64	12-31-18
Ohio VAP	State Program	5	CL0059	08-28-20
Oklahoma	State Program	6	9415	08-31-19
Oregon	NELAP	10	TNI0189	01-01-19
Pennsylvania	NELAP	3	68-00576	12-31-18
Tennessee	State Program	4	2014	04-13-20
Texas	NELAP	6	T104704380-16-9	08-31-19
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-16-00262	08-20-19
Utah	NELAP	8	TN00009	07-31-19
Virginia	NELAP	3	460176	09-14-19
Washington	State Program	10	C593	01-19-19
West Virginia (DW)	State Program	3	9955C	12-31-18
West Virginia DEP	State Program	3	345	04-30-19
Wisconsin	State Program	5	998044300	08-31-19

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 8102915

November 26, 2018

Nelson, Pope & Voorhis
Steve McGinn
572 Walt Whitman Road
Melville, NY 11747

Re: IHCC

Dear Steve McGinn,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on October 29, 2018. Long Island Analytical laboratories analyzed the samples on November 26, 2018 for the following:

SAMPLE ID	ANALYSIS
Pond -1	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond -2	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond -3	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond -4	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
Pond -5	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
FP-1	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen
FP-2	Dioxin, EPA 8081 B, EPA 8082 A, EPA 8151 A, EPA 8260 C, EPA 8270 D, Fecal Coliform, Nitrate, Nitrite and TKN Analysis, Phosphorus, Total, RCRA 23, Total Coliform, Total Nitrogen

Samples received at 1.7 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael Veraldi - Laboratory Director

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	22.9	<1.71	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	22.9	<1.46	ug/kg dry	4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	22.9	<2.59	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	22.9	<2.28	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	22.9	<2.66	ug/kg dry	
1,1-Dichloroethane	75-34-3	22.9	<2.23	ug/kg dry	
1,1-Dichloroethene	75-35-4	22.9	<2.99	ug/kg dry	
1,1-Dichloropropene	563-58-6	22.9	17.6	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	22.9	<2.00	ug/kg dry	
1,2,3-Trichloropropane	96-18-4	22.9	<2.40	ug/kg dry	
1,2,4,5-Tetramethylbenzene	95-93-2	22.9	<2.42	ug/kg dry	2.B
1,2,4-Trichlorobenzene	120-82-1	22.9	<2.63	ug/kg dry	
1,2,4-Trimethylbenzene	95-63-6	22.9	5.92	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	22.9	<3.41	ug/kg dry	4.J
1,2-Dibromoethane	106-93-4	22.9	<2.83	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	22.9	<1.65	ug/kg dry	
1,2-Dichloroethane	107-06-2	22.9	<2.88	ug/kg dry	4.K
1,2-Dichloropropane	78-87-5	22.9	<1.96	ug/kg dry	
1,3,5-Trimethylbenzene	108-67-8	22.9	<1.68	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	22.9	<1.75	ug/kg dry	
1,3-Dichloropropane	142-28-9	22.9	<2.93	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	22.9	<1.61	ug/kg dry	
1,4-Diethylbenzene	105-05-5	22.9	15.8	ug/kg dry	2.B
1,4-Dioxane	123-91-1	115	<80.2	ug/kg dry	
2,2-Dichloropropane	594-20-7	22.9	<1.73	ug/kg dry	4.K, 4.M
2-Chloroethyl Vinyl Ether	110-75-8	22.9	<1.44	ug/kg dry	
2-Chlorotoluene	95-49-8	22.9	<1.57	ug/kg dry	
4-Chlorotoluene	106-43-4	22.9	<2.01	ug/kg dry	
4-Ethyltoluene	622-96-8	22.9	5.69	ug/kg dry	2.B
4-Isopropyltoluene	99-87-6	22.9	9.58	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	45.9	<3.75	ug/kg dry	
Acetone	67-64-1	91.7	<61.0	ug/kg dry	
Acrolein	107-02-8	22.9	<4.40	ug/kg dry	
Acrylonitrile	107-13-1	22.9	13.7	ug/kg dry	
Benzene	71-43-2	22.9	<1.83	ug/kg dry	
Bromobenzene	108-86-1	22.9	<2.04	ug/kg dry	
Bromochloromethane	74-97-5	22.9	6.24	ug/kg dry	
Bromodichloromethane	75-27-4	22.9	<2.42	ug/kg dry	
Bromoform	75-25-2	22.9	<3.78	ug/kg dry	
Bromomethane	74-83-9	22.9	<6.10	ug/kg dry	
Carbon disulfide	75-15-0	22.9	<3.48	ug/kg dry	
Carbon Tetrachloride	56-23-5	22.9	<2.64	ug/kg dry	4.K, 4.M
Chlorobenzene	108-90-7	22.9	<2.19	ug/kg dry	
Chlorodifluoromethane	75-45-6	22.9	<0.954	ug/kg dry	2.B
Chloroethane	75-00-3	22.9	<5.59	ug/kg dry	
Chloroform	67-66-3	22.9	<2.25	ug/kg dry	4.K
Chloromethane	74-87-3	22.9	<1.94	ug/kg dry	
cis-1,2-Dichloroethene	156-59-2	22.9	6.60	ug/kg dry	4.K
cis-1,3-Dichloropropene	10061-01-5	22.9	<2.10	ug/kg dry	
Dibromochloromethane	124-48-1	22.9	<3.03	ug/kg dry	
Dibromomethane	74-95-3	22.9	<2.84	ug/kg dry	
Dichlorodifluoromethane	75-71-8	22.9	<1.75	ug/kg dry	
Ethylbenzene	100-41-4	22.9	<1.66	ug/kg dry	
Hexachlorobutadiene	87-68-3	22.9	<2.11	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	22.9	34.9	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	45.9	5.96	ug/kg dry	
Methyl Acetate	79-20-9	22.9	<2.06	ug/kg dry	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	22.9	<3.27	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	45.9	<6.69	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	22.9	<13.9	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	22.9	<2.64	ug/kg dry	
Naphthalene	91-20-3	22.9	<2.26	ug/kg dry	
n-Butylbenzene	104-51-8	22.9	6.33	ug/kg dry	
n-Propylbenzene	103-65-1	22.9	<1.60	ug/kg dry	
o-Xylene	95-47-6	22.9	<1.60	ug/kg dry	
sec-Butylbenzene	135-98-8	22.9	4.95	ug/kg dry	
Styrene	100-42-5	22.9	<3.22	ug/kg dry	
tert-Butyl alcohol	75-65-0	22.9	8.12	ug/kg dry	4.K, 4.M
tert-Butylbenzene	98-06-6	22.9	<1.94	ug/kg dry	
Tetrachloroethene	127-18-4	22.9	<2.10	ug/kg dry	
Toluene	108-88-3	22.9	<2.11	ug/kg dry	
trans-1,2-Dichloroethene	156-60-5	22.9	<2.80	ug/kg dry	
trans-1,3-Dichloropropene	10061-02-6	22.9	<3.19	ug/kg dry	
Trichloroethene	79-01-6	22.9	<1.16	ug/kg dry	
Trichlorofluoromethane	75-69-4	22.9	<2.02	ug/kg dry	
Vinyl Acetate	108-05-4	22.9	<1.61	ug/kg dry	
Vinyl chloride	75-01-4	22.9	<2.34	ug/kg dry	4.K, 4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	106	71.6-131	
4-Bromofluorobenzene	460-00-4	122	75.4-133	
Dibromofluoromethane	1868-53-7	109	75.6-135	
Toluene-d8	2037-26-5	87	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	79	50-200	
1,4-Difluorobenzene	540-36-3	114	50-200	
Chlorobenzene-d5	3114-55-4	110	50-200	
Pentafluorobenzene	363-72-4	119	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	1940	<1050	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	1940	<835	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	1940	<886	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	1940	<915	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	1940	<1170	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	1940	<992	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	1940	<816	ug/kg dry	
2,4-Dichlorophenol	120-83-2	1940	<992	ug/kg dry	
2,4-Dimethylphenol	105-67-9	1940	<1340	ug/kg dry	
2,4-Dinitrophenol	51-28-5	3870	<1100	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	1940	<1160	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	1940	<1200	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	1940	<1220	ug/kg dry	
2-Chlorophenol	95-57-8	1940	<1090	ug/kg dry	
2-Methylnaphthalene	91-57-6	1940	<1020	ug/kg dry	
2-Methylphenol	95-48-7	3870	<2030	ug/kg dry	
2-Nitroaniline	88-74-4	1940	<992	ug/kg dry	
2-Nitrophenol	88-75-5	1940	<1030	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	3870	<2680	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	1940	<1700	ug/kg dry	
3-Nitroaniline	99-09-2	1940	<1460	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	1940	<1100	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	1940	<1100	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	1940	<1080	ug/kg dry	
4-Chloroaniline	106-47-8	1940	<940	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	1940	<978	ug/kg dry	
4-Nitroaniline	100-01-6	1940	<779	ug/kg dry	
4-Nitrophenol	100-02-7	1940	<1270	ug/kg dry	
Acenaphthene	83-32-9	1940	<940	ug/kg dry	
Acenaphthylene	208-96-8	1940	<1110	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	1940	<881	ug/kg dry	
Anthracene	120-12-7	1940	<1090	ug/kg dry	
Benzidine	92-87-5	3870	<2740	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	1940	<991	ug/kg dry	
Benzo(a)pyrene	50-32-8	1940	<1140	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	3870	<1110	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	1940	<1120	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	1940	<1020	ug/kg dry	
Benzoic Acid	65-85-0	3870	<1900	ug/kg dry	
Benzyl alcohol	100-51-6	3870	<1270	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	1940	<1180	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	1940	<997	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	1940	<1030	ug/kg dry	
Butyl benzyl phthalate	85-68-7	1940	<996	ug/kg dry	
Carbazole	86-74-8	1940	<1040	ug/kg dry	
Chrysene	218-01-9	1940	<1010	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	1940	<1340	ug/kg dry	
Dibenzofuran	132-64-9	1940	<1020	ug/kg dry	
Diethyl phthalate	84-66-2	1940	<1160	ug/kg dry	
Dimethyl phthalate	131-11-3	1940	<1020	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	3870	<1130	ug/kg dry	
Di-n-octyl phthalate	117-84-0	1940	<1280	ug/kg dry	
Fluoranthene	206-44-0	1940	<1100	ug/kg dry	
Fluorene	86-73-7	1940	<1010	ug/kg dry	
Hexachlorobenzene	118-74-1	1940	<946	ug/kg dry	
Hexachlorobutadiene	87-68-3	1940	<795	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	3870	<1170	ug/kg dry	4.J
Hexachloroethane	67-72-1	1940	<1040	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	1940	<1140	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	3870	<2420	ug/kg dry	
Naphthalene	91-20-3	1940	<918	ug/kg dry	
Nitrobenzene	98-95-3	1940	<1240	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	1940	<990	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	1940	<1110	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	1940	<1210	ug/kg dry	
Parathion (ethyl)	56-38-2	1940	<1220	ug/kg dry	
Pentachlorophenol	87-86-5	1940	<1430	ug/kg dry	
Phenanthrene	85-01-8	1940	<1080	ug/kg dry	
Phenol	108-95-2	1940	<1190	ug/kg dry	
Pyrene	129-00-0	1940	<1070	ug/kg dry	
Pyridine	110-86-1	1940	<1060	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	57	30.8-109	
2-Fluorobiphenyl	321-60-8	53	32.6-96.2	
2-Fluorophenol	367-12-4	53	32.8-95.8	
Nitrobenzene-d5	4165-60-0	49	28.1-100	
Phenol-d6	13127-88-3	58	31.2-102	
Terphenyl-d14	1718-51-0	59	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	98	50-200	
Acenaphthene-d10	15067-26-2	95	50-200	
Chrysene-d12	1719-03-5	77	50-200	
Naphthalene-d8	1146-65-2	99	50-200	
Perylene-d12	1520-96-3	86	50-200	
Phenanthrene-d10	1517-22-2	89	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	12.9	<1.29	ug/kg dry	
4,4'-DDE	72-55-9	12.9	<1.13	ug/kg dry	
4,4'-DDT	50-29-3	12.9	<1.40	ug/kg dry	
Aldrin	309-00-2	21.5	<1.24	ug/kg dry	
alpha-BHC	319-84-6	21.5	9.38	ug/kg dry	
beta-BHC	319-85-7	21.5	<1.65	ug/kg dry	
cis-Chlordane	5103-71-9	21.5	<1.42	ug/kg dry	
delta-BHC	319-86-8	21.5	6.71	ug/kg dry	
Dieldrin	60-57-1	21.5	<1.36	ug/kg dry	
Endosulfan I	959-98-8	21.5	<1.13	ug/kg dry	
Endosulfan II	33213-65-9	21.5	2.24	ug/kg dry	
Endosulfan Sulfate	1031-07-8	21.5	<2.06	ug/kg dry	
Endrin	72-20-8	21.5	<1.29	ug/kg dry	
Endrin Aldehyde	7421-93-4	21.5	5.42	ug/kg dry	
Endrin Ketone	53494-70-5	21.5	<1.66	ug/kg dry	
gamma-BHC	58-89-9	21.5	3.44	ug/kg dry	
Heptachlor	76-44-8	21.5	<1.29	ug/kg dry	
Heptachlor Epoxide	1024-57-3	21.5	<1.08	ug/kg dry	
Methoxychlor	72-43-5	21.5	<1.80	ug/kg dry	
Mirex	2385-85-5	21.5	<2.15	ug/kg dry	
Mirex (2C)	2385-85-5	21.5	<2.15	ug/kg dry	
Toxaphene	8001-35-2	430	<81.9	ug/kg dry	
trans-Chlordane	5103-74-2	21.5	<1.38	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	73	50.4-127	
Tetrachloro-m-xylene	877-09-8	70	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	113	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	43.0	<7.05	ug/kg dry	
Aroclor-1221	11104-28-2	43.0	<43.0	ug/kg dry	
Aroclor-1232	11141-16-5	43.0	<43.0	ug/kg dry	
Aroclor-1242	53469-21-9	43.0	<43.0	ug/kg dry	
Aroclor-1248	12672-29-6	43.0	<43.0	ug/kg dry	
Aroclor-1254	11097-69-1	43.0	<43.0	ug/kg dry	
Aroclor-1260	11096-82-5	43.0	<9.98	ug/kg dry	
Aroclor-1262	37324-23-5	43.0	<43.0	ug/kg dry	
Aroclor-1268	11100-14-4	43.0	<43.0	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	87	32.5-149	
Tetrachloro-m-xylene	877-09-8	72	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	123	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	108	<21.4	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	108	<32.2	ug/kg dry	
2,4-D	94-75-7	108	<25.9	ug/kg dry	
Dicamba	1918-00-9	108	<16.2	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	50	36.3-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	104	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	32.4	5240	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	5.41	74.9	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	32.4	1840	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	5.41	11.4	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	5.41	8.76	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	162	17300	mg/kg dry	3.E
Lead	11/08/2018	EPA 6010 C	5.41	13.3	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	16.2	921	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	5.41	619	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	5.41	6.14	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	32.4	369	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	16.2	94.6	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	5.41	<5.41	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	5.41	16.4	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	5.41	32.3	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.05	0.05	mg/kg dry	

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01	% Solid:23.25
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 16:15	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A
Nitrite as N	10/30/2018 16:15	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.443	572	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01	% Solid:23.25
Matrix: Soil	ELAP: #11693	

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:06	Sample ID: Pond -1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-01 % Solid:23.25
Matrix: Soil	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	5.100	<5.100	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	40.1	<3.00	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	40.1	<2.55	ug/kg dry	3.A, 4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	40.1	<4.53	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	40.1	<3.99	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	40.1	<4.66	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	40.1	<3.91	ug/kg dry	3.A
1,1-Dichloroethene	75-35-4	40.1	<5.24	ug/kg dry	3.A
1,1-Dichloropropene	563-58-6	40.1	<4.21	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	40.1	<3.50	ug/kg dry	3.A
1,2,3-Trichloropropane	96-18-4	40.1	<4.19	ug/kg dry	3.A
1,2,4,5-Tetramethylbenzene	95-93-2	40.1	<4.23	ug/kg dry	2.B, 3.A
1,2,4-Trichlorobenzene	120-82-1	40.1	<4.60	ug/kg dry	3.A
1,2,4-Trimethylbenzene	95-63-6	40.1	10.0	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	40.1	<5.97	ug/kg dry	4.J, 3.A
1,2-Dibromoethane	106-93-4	40.1	<4.96	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	40.1	<2.89	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	40.1	<5.04	ug/kg dry	3.A, 4.K
1,2-Dichloropropane	78-87-5	40.1	<3.42	ug/kg dry	3.A
1,3,5-Trimethylbenzene	108-67-8	40.1	<2.94	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	40.1	<3.06	ug/kg dry	3.A
1,3-Dichloropropane	142-28-9	40.1	<5.13	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	40.1	<2.82	ug/kg dry	3.A
1,4-Diethylbenzene	105-05-5	40.1	27.0	ug/kg dry	2.B, 3.A
1,4-Dioxane	123-91-1	201	<140	ug/kg dry	3.A
2,2-Dichloropropane	594-20-7	40.1	<3.03	ug/kg dry	4.K, 4.M, 3.A
2-Chloroethyl Vinyl Ether	110-75-8	40.1	<2.52	ug/kg dry	3.A
2-Chlorotoluene	95-49-8	40.1	<2.74	ug/kg dry	3.A
4-Chlorotoluene	106-43-4	40.1	<3.52	ug/kg dry	3.A
4-Ethyltoluene	622-96-8	40.1	9.95	ug/kg dry	2.B, 3.A
4-Isopropyltoluene	99-87-6	40.1	16.4	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	80.2	<6.56	ug/kg dry	3.A
Acetone	67-64-1	160	<107	ug/kg dry	3.A
Acrolein	107-02-8	40.1	<7.69	ug/kg dry	3.A
Acrylonitrile	107-13-1	40.1	22.8	ug/kg dry	3.A
Benzene	71-43-2	40.1	<3.20	ug/kg dry	3.A
Bromobenzene	108-86-1	40.1	<3.57	ug/kg dry	3.A
Bromochloromethane	74-97-5	40.1	<3.58	ug/kg dry	3.A
Bromodichloromethane	75-27-4	40.1	<4.23	ug/kg dry	3.A
Bromoform	75-25-2	40.1	<6.62	ug/kg dry	3.A
Bromomethane	74-83-9	40.1	<10.7	ug/kg dry	3.A
Carbon disulfide	75-15-0	40.1	<6.08	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	40.1	<4.61	ug/kg dry	3.A, 4.K, 4.M
Chlorobenzene	108-90-7	40.1	<3.83	ug/kg dry	3.A
Chlorodifluoromethane	75-45-6	40.1	<1.67	ug/kg dry	3.A, 2.B
Chloroethane	75-00-3	40.1	<9.78	ug/kg dry	3.A
Chloroform	67-66-3	40.1	<3.94	ug/kg dry	4.K, 3.A
Chloromethane	74-87-3	40.1	<3.38	ug/kg dry	3.A
cis-1,2-Dichloroethene	156-59-2	40.1	11.6	ug/kg dry	3.A, 4.K
cis-1,3-Dichloropropene	10061-01-5	40.1	<3.68	ug/kg dry	3.A
Dibromochloromethane	124-48-1	40.1	<5.30	ug/kg dry	3.A
Dibromomethane	74-95-3	40.1	<4.96	ug/kg dry	3.A
Dichlorodifluoromethane	75-71-8	40.1	<3.06	ug/kg dry	3.A
Ethylbenzene	100-41-4	40.1	<2.91	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	40.1	<3.70	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	40.1	14.6	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	80.2	9.95	ug/kg dry	3.A
Methyl Acetate	79-20-9	40.1	<3.60	ug/kg dry	3.A
Methyl Butyl Ketone (2-Hexanone)	591-78-6	40.1	<5.73	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	80.2	<11.7	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	40.1	<24.3	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	40.1	<4.61	ug/kg dry	3.A
Naphthalene	91-20-3	40.1	<3.95	ug/kg dry	3.A
n-Butylbenzene	104-51-8	40.1	10.8	ug/kg dry	3.A
n-Propylbenzene	103-65-1	40.1	<2.81	ug/kg dry	3.A
o-Xylene	95-47-6	40.1	<2.79	ug/kg dry	3.A
sec-Butylbenzene	135-98-8	40.1	8.50	ug/kg dry	3.A
Styrene	100-42-5	40.1	<5.64	ug/kg dry	3.A
tert-Butyl alcohol	75-65-0	40.1	22.3	ug/kg dry	3.A, 4.K, 4.M
tert-Butylbenzene	98-06-6	40.1	<3.39	ug/kg dry	3.A
Tetrachloroethene	127-18-4	40.1	<3.68	ug/kg dry	3.A
Toluene	108-88-3	40.1	<3.70	ug/kg dry	3.A
trans-1,2-Dichloroethene	156-60-5	40.1	<4.90	ug/kg dry	3.A
trans-1,3-Dichloropropene	10061-02-6	40.1	<5.57	ug/kg dry	3.A
Trichloroethene	79-01-6	40.1	<2.03	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	40.1	<3.53	ug/kg dry	3.A
Vinyl Acetate	108-05-4	40.1	<2.82	ug/kg dry	3.A
Vinyl chloride	75-01-4	40.1	<4.10	ug/kg dry	3.A, 4.K, 4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	102	71.6-131	
4-Bromofluorobenzene	460-00-4	141	75.4-133	4.E
Dibromofluoromethane	1868-53-7	107	75.6-135	
Toluene-d8	2037-26-5	94	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	64	50-200	
1,4-Difluorobenzene	540-36-3	129	50-200	
Chlorobenzene-d5	3114-55-4	115	50-200	
Pentafluorobenzene	363-72-4	136	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	1750	<950	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	1750	<757	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	1750	<803	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	1750	<829	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	1750	<1060	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	1750	<899	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	1750	<739	ug/kg dry	
2,4-Dichlorophenol	120-83-2	1750	<899	ug/kg dry	
2,4-Dimethylphenol	105-67-9	1750	<1210	ug/kg dry	
2,4-Dinitrophenol	51-28-5	3510	<1000	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	1750	<1050	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	1750	<1080	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	1750	<1110	ug/kg dry	
2-Chlorophenol	95-57-8	1750	<986	ug/kg dry	
2-Methylnaphthalene	91-57-6	1750	<925	ug/kg dry	
2-Methylphenol	95-48-7	3510	<1840	ug/kg dry	
2-Nitroaniline	88-74-4	1750	<899	ug/kg dry	
2-Nitrophenol	88-75-5	1750	<930	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	3510	<2430	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	1750	<1540	ug/kg dry	
3-Nitroaniline	99-09-2	1750	<1320	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	1750	<997	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	1750	<998	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	1750	<975	ug/kg dry	
4-Chloroaniline	106-47-8	1750	<852	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	1750	<886	ug/kg dry	
4-Nitroaniline	100-01-6	1750	<706	ug/kg dry	
4-Nitrophenol	100-02-7	1750	<1150	ug/kg dry	
Acenaphthene	83-32-9	1750	<852	ug/kg dry	
Acenaphthylene	208-96-8	1750	<1010	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	1750	<798	ug/kg dry	
Anthracene	120-12-7	1750	<986	ug/kg dry	
Benzidine	92-87-5	3510	<2480	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	1750	<898	ug/kg dry	
Benzo(a)pyrene	50-32-8	1750	<1030	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	3510	<1010	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	1750	<1020	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	1750	<925	ug/kg dry	
Benzoic Acid	65-85-0	3510	<1730	ug/kg dry	
Benzyl alcohol	100-51-6	3510	<1150	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	1750	<1070	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	1750	<903	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	1750	<934	ug/kg dry	
Butyl benzyl phthalate	85-68-7	1750	<902	ug/kg dry	
Carbazole	86-74-8	1750	<942	ug/kg dry	
Chrysene	218-01-9	1750	<917	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	1750	<1220	ug/kg dry	
Dibenzofuran	132-64-9	1750	<921	ug/kg dry	
Diethyl phthalate	84-66-2	1750	<1050	ug/kg dry	
Dimethyl phthalate	131-11-3	1750	<928	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	3510	<1020	ug/kg dry	
Di-n-octyl phthalate	117-84-0	1750	<1160	ug/kg dry	
Fluoranthene	206-44-0	1750	<998	ug/kg dry	
Fluorene	86-73-7	1750	<915	ug/kg dry	
Hexachlorobenzene	118-74-1	1750	<857	ug/kg dry	
Hexachlorobutadiene	87-68-3	1750	<721	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	3510	<1060	ug/kg dry	4.J
Hexachloroethane	67-72-1	1750	<942	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	1750	<1040	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	3510	<2200	ug/kg dry	
Naphthalene	91-20-3	1750	<832	ug/kg dry	
Nitrobenzene	98-95-3	1750	<1120	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	1750	<897	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	1750	<1010	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	1750	<1090	ug/kg dry	
Parathion (ethyl)	56-38-2	1750	<1100	ug/kg dry	
Pentachlorophenol	87-86-5	1750	<1300	ug/kg dry	
Phenanthrene	85-01-8	1750	<980	ug/kg dry	
Phenol	108-95-2	1750	<1080	ug/kg dry	
Pyrene	129-00-0	1750	<970	ug/kg dry	
Pyridine	110-86-1	1750	<961	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	44	30.8-109	
2-Fluorobiphenyl	321-60-8	42	32.6-96.2	
2-Fluorophenol	367-12-4	38	32.8-95.8	
Nitrobenzene-d5	4165-60-0	40	28.1-100	
Phenol-d6	13127-88-3	42	31.2-102	
Terphenyl-d14	1718-51-0	44	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	95	50-200	
Acenaphthene-d10	15067-26-2	91	50-200	
Chrysene-d12	1719-03-5	81	50-200	
Naphthalene-d8	1146-65-2	96	50-200	
Perylene-d12	1520-96-3	85	50-200	
Phenanthrene-d10	1517-22-2	88	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	11.7	3.90	ug/kg dry	
4,4'-DDE	72-55-9	11.7	<1.03	ug/kg dry	
4,4'-DDT	50-29-3	11.7	<1.27	ug/kg dry	
Aldrin	309-00-2	19.5	1.64	ug/kg dry	
alpha-BHC	319-84-6	19.5	8.50	ug/kg dry	
beta-BHC	319-85-7	19.5	4.83	ug/kg dry	
cis-Chlordane	5103-71-9	19.5	<1.29	ug/kg dry	
delta-BHC	319-86-8	19.5	3.82	ug/kg dry	
Dieldrin	60-57-1	19.5	<1.23	ug/kg dry	
Endosulfan I	959-98-8	19.5	<1.02	ug/kg dry	
Endosulfan II	33213-65-9	19.5	<1.24	ug/kg dry	
Endosulfan Sulfate	1031-07-8	19.5	<1.87	ug/kg dry	
Endrin	72-20-8	19.5	6.94	ug/kg dry	
Endrin Aldehyde	7421-93-4	19.5	<1.14	ug/kg dry	
Endrin Ketone	53494-70-5	19.5	<1.50	ug/kg dry	
gamma-BHC	58-89-9	19.5	7.25	ug/kg dry	
Heptachlor	76-44-8	19.5	<1.17	ug/kg dry	
Heptachlor Epoxide	1024-57-3	19.5	<0.978	ug/kg dry	
Methoxychlor	72-43-5	19.5	<1.63	ug/kg dry	
Mirex	2385-85-5	19.5	<1.95	ug/kg dry	
Mirex (2C)	2385-85-5	19.5	<1.95	ug/kg dry	
Toxaphene	8001-35-2	390	<74.3	ug/kg dry	
trans-Chlordane	5103-74-2	19.5	7.17	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	71	50.4-127	
Tetrachloro-m-xylene	877-09-8	70	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	107	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	39.0	<6.39	ug/kg dry	
Aroclor-1221	11104-28-2	39.0	<39.0	ug/kg dry	
Aroclor-1232	11141-16-5	39.0	<39.0	ug/kg dry	
Aroclor-1242	53469-21-9	39.0	<39.0	ug/kg dry	
Aroclor-1248	12672-29-6	39.0	<39.0	ug/kg dry	
Aroclor-1254	11097-69-1	39.0	<39.0	ug/kg dry	
Aroclor-1260	11096-82-5	39.0	<9.04	ug/kg dry	
Aroclor-1262	37324-23-5	39.0	<39.0	ug/kg dry	
Aroclor-1268	11100-14-4	39.0	<39.0	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	85	32.5-149	
Tetrachloro-m-xylene	877-09-8	73	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	123	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	97.4	<19.4	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	97.4	<29.2	ug/kg dry	
2,4-D	94-75-7	97.4	<23.5	ug/kg dry	
Dicamba	1918-00-9	97.4	<14.7	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	33	36.3-123	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	108	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02 % Solid:25.65
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	29.4	7470	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	4.91	57.0	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	29.4	2100	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	4.91	16.2	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	4.91	7.03	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	4.91	11.6	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	14.7	9690	mg/kg dry	
Lead	11/08/2018	EPA 6010 C	4.91	24.4	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	14.7	1310	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	4.91	316	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	4.91	7.70	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	29.4	536	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	14.7	79.8	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	4.91	<4.91	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	4.91	21.3	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	4.91	46.0	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.05	0.10	mg/kg dry	

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02	% Solid:25.65
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 16:37	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A
Nitrite as N	10/30/2018 16:37	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.315	509	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02	% Solid:25.65
Matrix: Soil	ELAP: #11693	

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:25	Sample ID: Pond -2	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-02	% Solid:25.65
Matrix: Soil	ELAP: #11693	

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	3.800	<3.800	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	26.4	<1.98	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	26.4	<1.68	ug/kg dry	3.A, 4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	26.4	<2.99	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	26.4	<2.63	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	26.4	<3.07	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	26.4	<2.57	ug/kg dry	3.A
1,1-Dichloroethene	75-35-4	26.4	<3.45	ug/kg dry	3.A
1,1-Dichloropropene	563-58-6	26.4	<2.77	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	26.4	<2.31	ug/kg dry	3.A
1,2,3-Trichloropropane	96-18-4	26.4	<2.76	ug/kg dry	3.A
1,2,4,5-Tetramethylbenzene	95-93-2	26.4	<2.79	ug/kg dry	2.B, 3.A
1,2,4-Trichlorobenzene	120-82-1	26.4	<3.03	ug/kg dry	3.A
1,2,4-Trimethylbenzene	95-63-6	26.4	6.55	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	26.4	<3.93	ug/kg dry	4.J, 3.A
1,2-Dibromoethane	106-93-4	26.4	<3.27	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	26.4	<1.90	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	26.4	<3.32	ug/kg dry	3.A, 4.K
1,2-Dichloropropane	78-87-5	26.4	<2.26	ug/kg dry	3.A
1,3,5-Trimethylbenzene	108-67-8	26.4	<1.93	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	26.4	<2.01	ug/kg dry	3.A
1,3-Dichloropropane	142-28-9	26.4	<3.38	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	26.4	<1.85	ug/kg dry	3.A
1,4-Diethylbenzene	105-05-5	26.4	17.8	ug/kg dry	2.B, 3.A
1,4-Dioxane	123-91-1	132	<92.5	ug/kg dry	3.A
2,2-Dichloropropane	594-20-7	26.4	<2.00	ug/kg dry	4.K, 4.M, 3.A
2-Chloroethyl Vinyl Ether	110-75-8	26.4	<1.66	ug/kg dry	3.A
2-Chlorotoluene	95-49-8	26.4	<1.81	ug/kg dry	3.A
4-Chlorotoluene	106-43-4	26.4	<2.32	ug/kg dry	3.A
4-Ethyltoluene	622-96-8	26.4	6.55	ug/kg dry	2.B, 3.A
4-Isopropyltoluene	99-87-6	26.4	10.7	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	52.8	<4.32	ug/kg dry	3.A
Acetone	67-64-1	106	<70.3	ug/kg dry	3.A
Acrolein	107-02-8	26.4	<5.07	ug/kg dry	3.A
Acrylonitrile	107-13-1	26.4	15.4	ug/kg dry	3.A
Benzene	71-43-2	26.4	<2.11	ug/kg dry	3.A
Bromobenzene	108-86-1	26.4	<2.35	ug/kg dry	3.A
Bromochloromethane	74-97-5	26.4	<2.36	ug/kg dry	3.A
Bromodichloromethane	75-27-4	26.4	<2.79	ug/kg dry	3.A
Bromoform	75-25-2	26.4	<4.36	ug/kg dry	3.A
Bromomethane	74-83-9	26.4	<7.03	ug/kg dry	3.A
Carbon disulfide	75-15-0	26.4	<4.01	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	26.4	<3.04	ug/kg dry	4.K, 4.M, 3.A
Chlorobenzene	108-90-7	26.4	<2.52	ug/kg dry	3.A
Chlorodifluoromethane	75-45-6	26.4	<1.10	ug/kg dry	2.B, 3.A
Chloroethane	75-00-3	26.4	<6.45	ug/kg dry	3.A
Chloroform	67-66-3	26.4	<2.59	ug/kg dry	4.K, 3.A
Chloromethane	74-87-3	26.4	<2.23	ug/kg dry	3.A
cis-1,2-Dichloroethene	156-59-2	26.4	7.72	ug/kg dry	4.K, 3.A
cis-1,3-Dichloropropene	10061-01-5	26.4	<2.43	ug/kg dry	3.A
Dibromochloromethane	124-48-1	26.4	<3.49	ug/kg dry	3.A
Dibromomethane	74-95-3	26.4	<3.27	ug/kg dry	3.A
Dichlorodifluoromethane	75-71-8	26.4	<2.01	ug/kg dry	3.A
Ethylbenzene	100-41-4	26.4	<1.92	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	26.4	<2.44	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	26.4	9.30	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	52.8	6.50	ug/kg dry	3.A
Methyl Acetate	79-20-9	26.4	<2.37	ug/kg dry	3.A
Methyl Butyl Ketone (2-Hexanone)	591-78-6	26.4	<3.77	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	52.8	19.2	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	26.4	<16.0	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	26.4	<3.04	ug/kg dry	3.A
Naphthalene	91-20-3	26.4	<2.60	ug/kg dry	3.A
n-Butylbenzene	104-51-8	26.4	7.08	ug/kg dry	3.A
n-Propylbenzene	103-65-1	26.4	<1.85	ug/kg dry	3.A
o-Xylene	95-47-6	26.4	<1.84	ug/kg dry	3.A
sec-Butylbenzene	135-98-8	26.4	5.55	ug/kg dry	3.A
Styrene	100-42-5	26.4	<3.72	ug/kg dry	3.A
tert-Butyl alcohol	75-65-0	26.4	16.7	ug/kg dry	4.K, 4.M, 3.A
tert-Butylbenzene	98-06-6	26.4	<2.24	ug/kg dry	3.A
Tetrachloroethene	127-18-4	26.4	<2.43	ug/kg dry	3.A
Toluene	108-88-3	26.4	<2.44	ug/kg dry	3.A
trans-1,2-Dichloroethene	156-60-5	26.4	<3.23	ug/kg dry	3.A
trans-1,3-Dichloropropene	10061-02-6	26.4	<3.67	ug/kg dry	3.A
Trichloroethene	79-01-6	26.4	<1.34	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	26.4	<2.33	ug/kg dry	3.A
Vinyl Acetate	108-05-4	26.4	<1.85	ug/kg dry	3.A
Vinyl chloride	75-01-4	26.4	<2.70	ug/kg dry	4.K, 4.M, 3.A

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	102	71.6-131	
4-Bromofluorobenzene	460-00-4	137	75.4-133	4.E
Dibromofluoromethane	1868-53-7	108	75.6-135	
Toluene-d8	2037-26-5	91	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	72	50-200	
1,4-Difluorobenzene	540-36-3	127	50-200	
Chlorobenzene-d5	3114-55-4	117	50-200	
Pentafluorobenzene	363-72-4	133	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	1270	<688	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	1270	<548	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	1270	<582	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	1270	<600	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	1270	<767	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	1270	<651	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	1270	<535	ug/kg dry	
2,4-Dichlorophenol	120-83-2	1270	<651	ug/kg dry	
2,4-Dimethylphenol	105-67-9	1270	<877	ug/kg dry	
2,4-Dinitrophenol	51-28-5	2540	<724	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	1270	<759	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	1270	<785	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	1270	<801	ug/kg dry	
2-Chlorophenol	95-57-8	1270	<714	ug/kg dry	
2-Methylnaphthalene	91-57-6	1270	<670	ug/kg dry	
2-Methylphenol	95-48-7	2540	<1330	ug/kg dry	
2-Nitroaniline	88-74-4	1270	<651	ug/kg dry	
2-Nitrophenol	88-75-5	1270	<673	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	2540	<1760	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	1270	<1110	ug/kg dry	
3-Nitroaniline	99-09-2	1270	<956	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	1270	<722	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	1270	<722	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	1270	<706	ug/kg dry	
4-Chloroaniline	106-47-8	1270	<616	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	1270	<642	ug/kg dry	
4-Nitroaniline	100-01-6	1270	<511	ug/kg dry	
4-Nitrophenol	100-02-7	1270	<832	ug/kg dry	
Acenaphthene	83-32-9	1270	<617	ug/kg dry	
Acenaphthylene	208-96-8	1270	<728	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	1270	<578	ug/kg dry	
Anthracene	120-12-7	1270	<714	ug/kg dry	
Benzidine	92-87-5	2540	<1790	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	1270	<650	ug/kg dry	
Benzo(a)pyrene	50-32-8	1270	<748	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	2540	<728	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	1270	<738	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	1270	<670	ug/kg dry	
Benzoic Acid	65-85-0	2540	<1250	ug/kg dry	
Benzyl alcohol	100-51-6	2540	<832	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	1270	<777	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	1270	<654	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	1270	<676	ug/kg dry	
Butyl benzyl phthalate	85-68-7	1270	<653	ug/kg dry	
Carbazole	86-74-8	1270	<682	ug/kg dry	
Chrysene	218-01-9	1270	<664	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	1270	<882	ug/kg dry	
Dibenzofuran	132-64-9	1270	<666	ug/kg dry	
Diethyl phthalate	84-66-2	1270	<759	ug/kg dry	
Dimethyl phthalate	131-11-3	1270	<672	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	2540	<739	ug/kg dry	
Di-n-octyl phthalate	117-84-0	1270	<839	ug/kg dry	
Fluoranthene	206-44-0	1270	<722	ug/kg dry	
Fluorene	86-73-7	1270	<662	ug/kg dry	
Hexachlorobenzene	118-74-1	1270	<621	ug/kg dry	
Hexachlorobutadiene	87-68-3	1270	<522	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	2540	<767	ug/kg dry	4.J
Hexachloroethane	67-72-1	1270	<682	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	1270	<750	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	2540	<1590	ug/kg dry	
Naphthalene	91-20-3	1270	<602	ug/kg dry	
Nitrobenzene	98-95-3	1270	<811	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	1270	<649	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	1270	<729	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	1270	<792	ug/kg dry	
Parathion (ethyl)	56-38-2	1270	<798	ug/kg dry	
Pentachlorophenol	87-86-5	1270	<939	ug/kg dry	
Phenanthrene	85-01-8	1270	<709	ug/kg dry	
Phenol	108-95-2	1270	<781	ug/kg dry	
Pyrene	129-00-0	1270	<702	ug/kg dry	
Pyridine	110-86-1	1270	<695	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	45	30.8-109	
2-Fluorobiphenyl	321-60-8	54	32.6-96.2	
2-Fluorophenol	367-12-4	48	32.8-95.8	
Nitrobenzene-d5	4165-60-0	60	28.1-100	
Phenol-d6	13127-88-3	57	31.2-102	
Terphenyl-d14	1718-51-0	61	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	100	50-200	
Acenaphthene-d10	15067-26-2	95	50-200	
Chrysene-d12	1719-03-5	85	50-200	
Naphthalene-d8	1146-65-2	103	50-200	
Perylene-d12	1520-96-3	88	50-200	
Phenanthrene-d10	1517-22-2	91	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	8.47	2.60	ug/kg dry	
4,4'-DDE	72-55-9	8.47	4.06	ug/kg dry	
4,4'-DDT	50-29-3	8.47	<0.917	ug/kg dry	
Aldrin	309-00-2	14.1	<0.813	ug/kg dry	
alpha-BHC	319-84-6	14.1	<0.674	ug/kg dry	
beta-BHC	319-85-7	14.1	2.71	ug/kg dry	
cis-Chlordane	5103-71-9	14.1	<0.931	ug/kg dry	
delta-BHC	319-86-8	14.1	3.61	ug/kg dry	
Dieldrin	60-57-1	14.1	1.19	ug/kg dry	
Endosulfan I	959-98-8	14.1	<0.739	ug/kg dry	
Endosulfan II	33213-65-9	14.1	<0.895	ug/kg dry	
Endosulfan Sulfate	1031-07-8	14.1	<1.35	ug/kg dry	
Endrin	72-20-8	14.1	4.85	ug/kg dry	
Endrin Aldehyde	7421-93-4	14.1	0.959	ug/kg dry	
Endrin Ketone	53494-70-5	14.1	<1.09	ug/kg dry	
gamma-BHC	58-89-9	14.1	5.08	ug/kg dry	
Heptachlor	76-44-8	14.1	<0.844	ug/kg dry	
Heptachlor Epoxide	1024-57-3	14.1	<0.708	ug/kg dry	
Methoxychlor	72-43-5	14.1	<1.18	ug/kg dry	
Mirex	2385-85-5	14.1	<1.41	ug/kg dry	
Mirex (2C)	2385-85-5	14.1	<1.41	ug/kg dry	
Toxaphene	8001-35-2	282	<53.8	ug/kg dry	
trans-Chlordane	5103-74-2	14.1	5.14	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	82	50.4-127	
Tetrachloro-m-xylene	877-09-8	81	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	109	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	28.2	<4.63	ug/kg dry	
Aroclor-1221	11104-28-2	28.2	<28.2	ug/kg dry	
Aroclor-1232	11141-16-5	28.2	<28.2	ug/kg dry	
Aroclor-1242	53469-21-9	28.2	<28.2	ug/kg dry	
Aroclor-1248	12672-29-6	28.2	<28.2	ug/kg dry	
Aroclor-1254	11097-69-1	28.2	<28.2	ug/kg dry	
Aroclor-1260	11096-82-5	28.2	<6.55	ug/kg dry	
Aroclor-1262	37324-23-5	28.2	<28.2	ug/kg dry	
Aroclor-1268	11100-14-4	28.2	<28.2	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	99	32.5-149	
Tetrachloro-m-xylene	877-09-8	84	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	117	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	70.5	<14.1	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	70.5	<21.1	ug/kg dry	
2,4-D	94-75-7	70.5	<17.0	ug/kg dry	
Dicamba	1918-00-9	70.5	<10.6	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	25	36.3-123	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	114	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	21.4	8250	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	3.57	<3.57	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	3.57	5.38	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	3.57	44.3	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	3.57	<3.57	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	3.57	<3.57	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	21.4	1160	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	3.57	19.9	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	3.57	4.49	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	3.57	11.8	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	10.7	7630	mg/kg dry	
Lead	11/08/2018	EPA 6010 C	3.57	24.1	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	10.7	1390	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	3.57	195	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	3.57	8.42	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	21.4	524	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	3.57	<3.57	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	3.57	<3.57	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	10.7	60.9	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	3.57	<3.57	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	3.57	19.8	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	3.57	37.6	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.04	0.22	mg/kg dry	

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03	% Solid:35.44
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 17:00	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A
Nitrite as N	10/30/2018 17:00	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.224	453	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03	% Solid:35.44
Matrix: Soil	ELAP: #11693	

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 09:49	Sample ID: Pond -3
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-03 % Solid:35.44
Matrix: Soil	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	3.600	<3.600	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	56.4	<4.22	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	56.4	<3.59	ug/kg dry	3.A, 4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	56.4	<6.38	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	56.4	<5.62	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	56.4	<6.56	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	56.4	<5.50	ug/kg dry	3.A
1,1-Dichloroethene	75-35-4	56.4	<7.37	ug/kg dry	3.A
1,1-Dichloropropene	563-58-6	56.4	<5.92	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	56.4	<4.93	ug/kg dry	3.A
1,2,3-Trichloropropane	96-18-4	56.4	<5.90	ug/kg dry	3.A
1,2,4,5-Tetramethylbenzene	95-93-2	56.4	<5.95	ug/kg dry	2.B, 3.A
1,2,4-Trichlorobenzene	120-82-1	56.4	<6.48	ug/kg dry	3.A
1,2,4-Trimethylbenzene	95-63-6	56.4	14.3	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	56.4	<8.40	ug/kg dry	4.J, 3.A
1,2-Dibromoethane	106-93-4	56.4	<6.97	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	56.4	<4.06	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	56.4	<7.10	ug/kg dry	3.A, 4.K
1,2-Dichloropropane	78-87-5	56.4	<4.82	ug/kg dry	3.A
1,3,5-Trimethylbenzene	108-67-8	56.4	<4.13	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	56.4	<4.30	ug/kg dry	3.A
1,3-Dichloropropane	142-28-9	56.4	<7.21	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	56.4	<3.96	ug/kg dry	3.A
1,4-Diethylbenzene	105-05-5	56.4	37.8	ug/kg dry	2.B, 3.A
1,4-Dioxane	123-91-1	282	<197	ug/kg dry	3.A
2,2-Dichloropropane	594-20-7	56.4	<4.27	ug/kg dry	4.K, 4.M, 3.A
2-Chloroethyl Vinyl Ether	110-75-8	56.4	<3.54	ug/kg dry	3.A
2-Chlorotoluene	95-49-8	56.4	<3.86	ug/kg dry	3.A
4-Chlorotoluene	106-43-4	56.4	<4.95	ug/kg dry	3.A
4-Ethyltoluene	622-96-8	56.4	14.0	ug/kg dry	2.B, 3.A
4-Isopropyltoluene	99-87-6	56.4	22.8	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	113	<9.23	ug/kg dry	3.A
Acetone	67-64-1	226	<150	ug/kg dry	3.A
Acrolein	107-02-8	56.4	<10.8	ug/kg dry	3.A
Acrylonitrile	107-13-1	56.4	33.9	ug/kg dry	3.A
Benzene	71-43-2	56.4	<4.50	ug/kg dry	3.A
Bromobenzene	108-86-1	56.4	<5.02	ug/kg dry	3.A
Bromochloromethane	74-97-5	56.4	<5.03	ug/kg dry	3.A
Bromodichloromethane	75-27-4	56.4	<5.96	ug/kg dry	3.A
Bromoform	75-25-2	56.4	<9.31	ug/kg dry	3.A
Bromomethane	74-83-9	56.4	<15.0	ug/kg dry	3.A
Carbon disulfide	75-15-0	56.4	<8.55	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	56.4	<6.49	ug/kg dry	4.M, 4.K, 3.A
Chlorobenzene	108-90-7	56.4	<5.38	ug/kg dry	3.A
Chlorodifluoromethane	75-45-6	56.4	<2.35	ug/kg dry	2.B, 3.A
Chloroethane	75-00-3	56.4	<13.8	ug/kg dry	3.A
Chloroform	67-66-3	56.4	<5.54	ug/kg dry	4.K, 3.A
Chloromethane	74-87-3	56.4	<4.76	ug/kg dry	3.A
cis-1,2-Dichloroethene	156-59-2	56.4	16.4	ug/kg dry	4.K, 3.A
cis-1,3-Dichloropropene	10061-01-5	56.4	<5.18	ug/kg dry	3.A
Dibromochloromethane	124-48-1	56.4	<7.46	ug/kg dry	3.A
Dibromomethane	74-95-3	56.4	<6.99	ug/kg dry	3.A
Dichlorodifluoromethane	75-71-8	56.4	<4.30	ug/kg dry	3.A
Ethylbenzene	100-41-4	56.4	<4.10	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	56.4	<5.20	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	56.4	19.7	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	113	14.4	ug/kg dry	3.A
Methyl Acetate	79-20-9	56.4	<5.07	ug/kg dry	3.A
Methyl Butyl Ketone (2-Hexanone)	591-78-6	56.4	<8.06	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	113	<16.5	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
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Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	56.4	<34.2	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	56.4	<6.49	ug/kg dry	3.A
Naphthalene	91-20-3	56.4	<5.55	ug/kg dry	3.A
n-Butylbenzene	104-51-8	56.4	15.0	ug/kg dry	3.A
n-Propylbenzene	103-65-1	56.4	<3.95	ug/kg dry	3.A
o-Xylene	95-47-6	56.4	<3.93	ug/kg dry	3.A
sec-Butylbenzene	135-98-8	56.4	11.8	ug/kg dry	3.A
Styrene	100-42-5	56.4	<7.93	ug/kg dry	3.A
tert-Butyl alcohol	75-65-0	56.4	<18.4	ug/kg dry	4.K, 4.M, 3.A
tert-Butylbenzene	98-06-6	56.4	<4.77	ug/kg dry	3.A
Tetrachloroethene	127-18-4	56.4	<5.18	ug/kg dry	3.A
Toluene	108-88-3	56.4	<5.20	ug/kg dry	3.A
trans-1,2-Dichloroethene	156-60-5	56.4	<6.90	ug/kg dry	3.A
trans-1,3-Dichloropropene	10061-02-6	56.4	<7.84	ug/kg dry	3.A
Trichloroethene	79-01-6	56.4	<2.86	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	56.4	<4.97	ug/kg dry	3.A
Vinyl Acetate	108-05-4	56.4	<3.96	ug/kg dry	3.A
Vinyl chloride	75-01-4	56.4	<5.77	ug/kg dry	4.K, 4.M, 3.A

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	104	71.6-131	
4-Bromofluorobenzene	460-00-4	149	75.4-133	4.E
Dibromofluoromethane	1868-53-7	112	75.6-135	
Toluene-d8	2037-26-5	93	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	54	50-200	
1,4-Difluorobenzene	540-36-3	115	50-200	
Chlorobenzene-d5	3114-55-4	103	50-200	
Pentafluorobenzene	363-72-4	121	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	2650	<1440	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	2650	<1140	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	2650	<1210	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	2650	<1250	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	2650	<1600	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	2650	<1360	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	2650	<1120	ug/kg dry	
2,4-Dichlorophenol	120-83-2	2650	<1360	ug/kg dry	
2,4-Dimethylphenol	105-67-9	2650	<1830	ug/kg dry	
2,4-Dinitrophenol	51-28-5	5300	<1510	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	2650	<1580	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	2650	<1640	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	2650	<1670	ug/kg dry	
2-Chlorophenol	95-57-8	2650	<1490	ug/kg dry	
2-Methylnaphthalene	91-57-6	2650	<1400	ug/kg dry	
2-Methylphenol	95-48-7	5300	<2790	ug/kg dry	
2-Nitroaniline	88-74-4	2650	<1360	ug/kg dry	
2-Nitrophenol	88-75-5	2650	<1410	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	5300	<3670	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	2650	<2320	ug/kg dry	
3-Nitroaniline	99-09-2	2650	<2000	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	2650	<1510	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	2650	<1510	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	2650	<1470	ug/kg dry	
4-Chloroaniline	106-47-8	2650	<1290	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	2650	<1340	ug/kg dry	
4-Nitroaniline	100-01-6	2650	<1070	ug/kg dry	
4-Nitrophenol	100-02-7	2650	<1740	ug/kg dry	
Acenaphthene	83-32-9	2650	<1290	ug/kg dry	
Acenaphthylene	208-96-8	2650	<1520	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
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Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	2650	<1210	ug/kg dry	
Anthracene	120-12-7	2650	<1490	ug/kg dry	
Benzidine	92-87-5	5300	<3750	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	2650	<1360	ug/kg dry	
Benzo(a)pyrene	50-32-8	2650	<1560	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	5300	<1520	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	2650	<1540	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	2650	<1400	ug/kg dry	
Benzoic Acid	65-85-0	5300	<2610	ug/kg dry	
Benzyl alcohol	100-51-6	5300	<1740	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	2650	<1620	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	2650	<1370	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	2650	<1410	ug/kg dry	
Butyl benzyl phthalate	85-68-7	2650	<1360	ug/kg dry	
Carbazole	86-74-8	2650	<1420	ug/kg dry	
Chrysene	218-01-9	2650	<1390	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	2650	<1840	ug/kg dry	
Dibenzofuran	132-64-9	2650	<1390	ug/kg dry	
Diethyl phthalate	84-66-2	2650	<1580	ug/kg dry	
Dimethyl phthalate	131-11-3	2650	<1400	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	5300	<1540	ug/kg dry	
Di-n-octyl phthalate	117-84-0	2650	<1750	ug/kg dry	
Fluoranthene	206-44-0	2650	<1510	ug/kg dry	
Fluorene	86-73-7	2650	<1380	ug/kg dry	
Hexachlorobenzene	118-74-1	2650	<1300	ug/kg dry	
Hexachlorobutadiene	87-68-3	2650	<1090	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	5300	<1600	ug/kg dry	4.J
Hexachloroethane	67-72-1	2650	<1420	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	2650	<1570	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	5300	<3320	ug/kg dry	
Naphthalene	91-20-3	2650	<1260	ug/kg dry	
Nitrobenzene	98-95-3	2650	<1690	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	2650	<1360	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	2650	<1520	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	2650	<1650	ug/kg dry	
Parathion (ethyl)	56-38-2	2650	<1670	ug/kg dry	
Pentachlorophenol	87-86-5	2650	<1960	ug/kg dry	
Phenanthrene	85-01-8	2650	<1480	ug/kg dry	
Phenol	108-95-2	2650	<1630	ug/kg dry	
Pyrene	129-00-0	2650	<1470	ug/kg dry	
Pyridine	110-86-1	2650	<1450	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	56	30.8-109	
2-Fluorobiphenyl	321-60-8	62	32.6-96.2	
2-Fluorophenol	367-12-4	55	32.8-95.8	
Nitrobenzene-d5	4165-60-0	65	28.1-100	
Phenol-d6	13127-88-3	63	31.2-102	
Terphenyl-d14	1718-51-0	66	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	100	50-200	
Acenaphthene-d10	15067-26-2	96	50-200	
Chrysene-d12	1719-03-5	84	50-200	
Naphthalene-d8	1146-65-2	102	50-200	
Perylene-d12	1520-96-3	90	50-200	
Phenanthrene-d10	1517-22-2	92	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	17.7	<1.76	ug/kg dry	
4,4'-DDE	72-55-9	17.7	5.89	ug/kg dry	
4,4'-DDT	50-29-3	17.7	<1.91	ug/kg dry	
Aldrin	309-00-2	29.5	<1.70	ug/kg dry	
alpha-BHC	319-84-6	29.5	<1.41	ug/kg dry	
beta-BHC	319-85-7	29.5	5.30	ug/kg dry	
cis-Chlordane	5103-71-9	29.5	72.0	ug/kg dry	
delta-BHC	319-86-8	29.5	6.95	ug/kg dry	
Dieldrin	60-57-1	29.5	11.0	ug/kg dry	
Endosulfan I	959-98-8	29.5	4.71	ug/kg dry	
Endosulfan II	33213-65-9	29.5	4.24	ug/kg dry	
Endosulfan Sulfate	1031-07-8	29.5	<2.83	ug/kg dry	
Endrin	72-20-8	29.5	<1.76	ug/kg dry	
Endrin Aldehyde	7421-93-4	29.5	2.71	ug/kg dry	
Endrin Ketone	53494-70-5	29.5	<2.27	ug/kg dry	
gamma-BHC	58-89-9	29.5	<1.55	ug/kg dry	
Heptachlor	76-44-8	29.5	<1.76	ug/kg dry	
Heptachlor Epoxide	1024-57-3	29.5	<1.48	ug/kg dry	
Methoxychlor	72-43-5	29.5	<2.46	ug/kg dry	
Mirex	2385-85-5	29.5	<2.95	ug/kg dry	
Mirex (2C)	2385-85-5	29.5	<2.95	ug/kg dry	
Toxaphene	8001-35-2	589	<112	ug/kg dry	
trans-Chlordane	5103-74-2	29.5	102	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	74	50.4-127	
Tetrachloro-m-xylene	877-09-8	69	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	100	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	58.9	<9.66	ug/kg dry	
Aroclor-1221	11104-28-2	58.9	<58.9	ug/kg dry	
Aroclor-1232	11141-16-5	58.9	<58.9	ug/kg dry	
Aroclor-1242	53469-21-9	58.9	<58.9	ug/kg dry	
Aroclor-1248	12672-29-6	58.9	<58.9	ug/kg dry	
Aroclor-1254	11097-69-1	58.9	<58.9	ug/kg dry	
Aroclor-1260	11096-82-5	58.9	<13.7	ug/kg dry	
Aroclor-1262	37324-23-5	58.9	<58.9	ug/kg dry	
Aroclor-1268	11100-14-4	58.9	<58.9	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	86	32.5-149	
Tetrachloro-m-xylene	877-09-8	71	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	117	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	147	<29.3	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	147	<44.1	ug/kg dry	
2,4-D	94-75-7	147	<35.5	ug/kg dry	
Dicamba	1918-00-9	147	<22.2	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	36	36.3-123	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	108	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	47.8	11900	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	7.98	14.2	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	7.98	70.7	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	47.8	2690	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	7.98	20.0	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	7.98	27.3	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	23.9	11200	mg/kg dry	
Lead	11/08/2018	EPA 6010 C	7.98	29.3	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	23.9	1880	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	7.98	295	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	7.98	14.0	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	47.8	629	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	23.9	114	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	7.98	<7.98	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	7.98	42.0	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	7.98	63.1	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.18	1.55	mg/kg dry	3.E

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04	% Solid:16.97
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 17:23	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A
Nitrite as N	10/30/2018 17:23	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.528	1060	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:01	Sample ID: Pond -4
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-04 % Solid:16.97
Matrix: Soil	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	6.300	<6.300	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	38.1	<2.85	ug/kg dry	3.A
1,1,1-Trichloroethane	71-55-6	38.1	<2.42	ug/kg dry	3.A, 4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	38.1	<4.30	ug/kg dry	3.A
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	38.1	<3.79	ug/kg dry	3.A
1,1,2-Trichloroethane	79-00-5	38.1	<4.43	ug/kg dry	3.A
1,1-Dichloroethane	75-34-3	38.1	<3.71	ug/kg dry	3.A
1,1-Dichloroethene	75-35-4	38.1	<4.97	ug/kg dry	3.A
1,1-Dichloropropene	563-58-6	38.1	29.3	ug/kg dry	3.A
1,2,3-Trichlorobenzene	87-61-6	38.1	<3.33	ug/kg dry	3.A
1,2,3-Trichloropropane	96-18-4	38.1	<3.98	ug/kg dry	3.A
1,2,4,5-Tetramethylbenzene	95-93-2	38.1	<4.01	ug/kg dry	3.A, 2.B
1,2,4-Trichlorobenzene	120-82-1	38.1	<4.37	ug/kg dry	3.A
1,2,4-Trimethylbenzene	95-63-6	38.1	9.83	ug/kg dry	3.A
1,2-Dibromo-3-chloropropane	96-12-8	38.1	<5.67	ug/kg dry	4.J, 3.A
1,2-Dibromoethane	106-93-4	38.1	<4.71	ug/kg dry	3.A
1,2-Dichlorobenzene	95-50-1	38.1	<2.74	ug/kg dry	3.A
1,2-Dichloroethane	107-06-2	38.1	<4.79	ug/kg dry	3.A, 4.K
1,2-Dichloropropane	78-87-5	38.1	<3.25	ug/kg dry	3.A
1,3,5-Trimethylbenzene	108-67-8	38.1	<2.79	ug/kg dry	3.A
1,3-Dichlorobenzene	541-73-1	38.1	<2.90	ug/kg dry	3.A
1,3-Dichloropropane	142-28-9	38.1	<4.87	ug/kg dry	3.A
1,4-Dichlorobenzene	106-46-7	38.1	<2.67	ug/kg dry	3.A
1,4-Diethylbenzene	105-05-5	38.1	<2.57	ug/kg dry	2.B, 3.A
1,4-Dioxane	123-91-1	190	<133	ug/kg dry	3.A
2,2-Dichloropropane	594-20-7	38.1	<2.88	ug/kg dry	4.K, 4.M, 3.A
2-Chloroethyl Vinyl Ether	110-75-8	38.1	<2.39	ug/kg dry	3.A
2-Chlorotoluene	95-49-8	38.1	<2.61	ug/kg dry	3.A
4-Chlorotoluene	106-43-4	38.1	<3.34	ug/kg dry	3.A
4-Ethyltoluene	622-96-8	38.1	9.75	ug/kg dry	2.B, 3.A
4-Isopropyltoluene	99-87-6	38.1	15.3	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	76.2	<6.23	ug/kg dry	3.A
Acetone	67-64-1	152	<101	ug/kg dry	3.A
Acrolein	107-02-8	38.1	<7.31	ug/kg dry	3.A
Acrylonitrile	107-13-1	38.1	22.1	ug/kg dry	3.A
Benzene	71-43-2	38.1	<3.04	ug/kg dry	3.A
Bromobenzene	108-86-1	38.1	<3.39	ug/kg dry	3.A
Bromochloromethane	74-97-5	38.1	9.75	ug/kg dry	3.A
Bromodichloromethane	75-27-4	38.1	<4.02	ug/kg dry	3.A
Bromoform	75-25-2	38.1	<6.28	ug/kg dry	3.A
Bromomethane	74-83-9	38.1	<10.1	ug/kg dry	3.A
Carbon disulfide	75-15-0	38.1	<5.77	ug/kg dry	3.A
Carbon Tetrachloride	56-23-5	38.1	<4.38	ug/kg dry	4.K, 4.M, 3.A
Chlorobenzene	108-90-7	38.1	<3.63	ug/kg dry	3.A
Chlorodifluoromethane	75-45-6	38.1	<1.58	ug/kg dry	2.B, 3.A
Chloroethane	75-00-3	38.1	<9.29	ug/kg dry	3.A
Chloroform	67-66-3	38.1	<3.74	ug/kg dry	4.K, 3.A
Chloromethane	74-87-3	38.1	<3.21	ug/kg dry	3.A
cis-1,2-Dichloroethene	156-59-2	38.1	11.7	ug/kg dry	4.K, 3.A
cis-1,3-Dichloropropene	10061-01-5	38.1	<3.50	ug/kg dry	3.A
Dibromochloromethane	124-48-1	38.1	<5.04	ug/kg dry	3.A
Dibromomethane	74-95-3	38.1	<4.72	ug/kg dry	3.A
Dichlorodifluoromethane	75-71-8	38.1	<2.90	ug/kg dry	3.A
Ethylbenzene	100-41-4	38.1	<2.77	ug/kg dry	3.A
Hexachlorobutadiene	87-68-3	38.1	<3.51	ug/kg dry	3.A
Isopropylbenzene (Cumene)	98-82-8	38.1	13.7	ug/kg dry	3.A
m,p-Xylenes	108-38-3/106-42-3	76.2	9.45	ug/kg dry	3.A
Methyl Acetate	79-20-9	38.1	<3.42	ug/kg dry	3.A
Methyl Butyl Ketone (2-Hexanone)	591-78-6	38.1	<5.44	ug/kg dry	3.A
Methyl Ethyl Ketone (2-Butanone)	78-93-3	76.2	31.3	ug/kg dry	3.A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	38.1	<23.1	ug/kg dry	3.A
Methyl-tert-Butyl Ether	1634-04-4	38.1	<4.38	ug/kg dry	3.A
Naphthalene	91-20-3	38.1	<3.75	ug/kg dry	3.A
n-Butylbenzene	104-51-8	38.1	10.1	ug/kg dry	3.A
n-Propylbenzene	103-65-1	38.1	<2.67	ug/kg dry	3.A
o-Xylene	95-47-6	38.1	<2.65	ug/kg dry	3.A
sec-Butylbenzene	135-98-8	38.1	<2.91	ug/kg dry	3.A
Styrene	100-42-5	38.1	<5.36	ug/kg dry	3.A
tert-Butyl alcohol	75-65-0	38.1	33.0	ug/kg dry	4.K, 4.M, 3.A
tert-Butylbenzene	98-06-6	38.1	<3.22	ug/kg dry	3.A
Tetrachloroethene	127-18-4	38.1	<3.50	ug/kg dry	3.A
Toluene	108-88-3	38.1	<3.51	ug/kg dry	3.A
trans-1,2-Dichloroethene	156-60-5	38.1	<4.65	ug/kg dry	3.A
trans-1,3-Dichloropropene	10061-02-6	38.1	<5.29	ug/kg dry	3.A
Trichloroethene	79-01-6	38.1	<1.93	ug/kg dry	3.A
Trichlorofluoromethane	75-69-4	38.1	<3.35	ug/kg dry	3.A
Vinyl Acetate	108-05-4	38.1	<2.67	ug/kg dry	3.A
Vinyl chloride	75-01-4	38.1	<3.89	ug/kg dry	3.A, 4.K, 4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	107	71.6-131	
4-Bromofluorobenzene	460-00-4	151	75.4-133	4.E
Dibromofluoromethane	1868-53-7	115	75.6-135	
Toluene-d8	2037-26-5	91	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	56	50-200	
1,4-Difluorobenzene	540-36-3	112	50-200	
Chlorobenzene-d5	3114-55-4	103	50-200	
Pentafluorobenzene	363-72-4	115	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	1720	<932	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	1720	<742	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	1720	<788	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	1720	<814	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	1720	<1040	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	1720	<882	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	1720	<725	ug/kg dry	
2,4-Dichlorophenol	120-83-2	1720	<882	ug/kg dry	
2,4-Dimethylphenol	105-67-9	1720	<1190	ug/kg dry	
2,4-Dinitrophenol	51-28-5	3440	<981	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	1720	<1030	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	1720	<1060	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	1720	<1090	ug/kg dry	
2-Chlorophenol	95-57-8	1720	<967	ug/kg dry	
2-Methylnaphthalene	91-57-6	1720	<908	ug/kg dry	
2-Methylphenol	95-48-7	3440	<1810	ug/kg dry	
2-Nitroaniline	88-74-4	1720	<882	ug/kg dry	
2-Nitrophenol	88-75-5	1720	<912	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	3440	<2380	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	1720	<1510	ug/kg dry	
3-Nitroaniline	99-09-2	1720	<1300	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	1720	<978	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	1720	<979	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	1720	<957	ug/kg dry	
4-Chloroaniline	106-47-8	1720	<835	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	1720	<869	ug/kg dry	
4-Nitroaniline	100-01-6	1720	<693	ug/kg dry	
4-Nitrophenol	100-02-7	1720	<1130	ug/kg dry	
Acenaphthene	83-32-9	1720	<836	ug/kg dry	
Acenaphthylene	208-96-8	1720	<987	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	1720	<783	ug/kg dry	
Anthracene	120-12-7	1720	<968	ug/kg dry	
Benzidine	92-87-5	3440	<2430	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	1720	<881	ug/kg dry	
Benzo(a)pyrene	50-32-8	1720	<1010	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	3440	<987	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	1720	<1000	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	1720	<908	ug/kg dry	
Benzoic Acid	65-85-0	3440	<1690	ug/kg dry	
Benzyl alcohol	100-51-6	3440	<1130	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	1720	<1050	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	1720	<886	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	1720	<916	ug/kg dry	
Butyl benzyl phthalate	85-68-7	1720	<885	ug/kg dry	
Carbazole	86-74-8	1720	<924	ug/kg dry	
Chrysene	218-01-9	1720	<900	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	1720	<1200	ug/kg dry	
Dibenzofuran	132-64-9	1720	<903	ug/kg dry	
Diethyl phthalate	84-66-2	1720	<1030	ug/kg dry	
Dimethyl phthalate	131-11-3	1720	<910	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	3440	<1000	ug/kg dry	
Di-n-octyl phthalate	117-84-0	1720	<1140	ug/kg dry	
Fluoranthene	206-44-0	1720	<979	ug/kg dry	
Fluorene	86-73-7	1720	<897	ug/kg dry	
Hexachlorobenzene	118-74-1	1720	<841	ug/kg dry	
Hexachlorobutadiene	87-68-3	1720	<707	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	3440	<1040	ug/kg dry	4.J
Hexachloroethane	67-72-1	1720	<924	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	1720	<1020	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	3440	<2150	ug/kg dry	
Naphthalene	91-20-3	1720	<816	ug/kg dry	
Nitrobenzene	98-95-3	1720	<1100	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	1720	<880	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	1720	<988	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	1720	<1070	ug/kg dry	
Parathion (ethyl)	56-38-2	1720	<1080	ug/kg dry	
Pentachlorophenol	87-86-5	1720	<1270	ug/kg dry	
Phenanthrene	85-01-8	1720	<961	ug/kg dry	
Phenol	108-95-2	1720	<1060	ug/kg dry	
Pyrene	129-00-0	1720	<951	ug/kg dry	
Pyridine	110-86-1	1720	<942	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	41	30.8-109	
2-Fluorobiphenyl	321-60-8	38	32.6-96.2	
2-Fluorophenol	367-12-4	36	32.8-95.8	
Nitrobenzene-d5	4165-60-0	47	28.1-100	
Phenol-d6	13127-88-3	47	31.2-102	
Terphenyl-d14	1718-51-0	43	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	97	50-200	
Acenaphthene-d10	15067-26-2	95	50-200	
Chrysene-d12	1719-03-5	84	50-200	
Naphthalene-d8	1146-65-2	98	50-200	
Perylene-d12	1520-96-3	90	50-200	
Phenanthrene-d10	1517-22-2	92	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	11.5	<1.14	ug/kg dry	
4,4'-DDE	72-55-9	11.5	1.61	ug/kg dry	
4,4'-DDT	50-29-3	11.5	<1.24	ug/kg dry	
Aldrin	309-00-2	19.1	<1.10	ug/kg dry	
alpha-BHC	319-84-6	19.1	8.64	ug/kg dry	
beta-BHC	319-85-7	19.1	<1.47	ug/kg dry	
cis-Chlordane	5103-71-9	19.1	<1.26	ug/kg dry	
delta-BHC	319-86-8	19.1	4.97	ug/kg dry	
Dieldrin	60-57-1	19.1	<1.21	ug/kg dry	
Endosulfan I	959-98-8	19.1	<1.00	ug/kg dry	
Endosulfan II	33213-65-9	19.1	<1.21	ug/kg dry	
Endosulfan Sulfate	1031-07-8	19.1	<1.84	ug/kg dry	
Endrin	72-20-8	19.1	6.42	ug/kg dry	
Endrin Aldehyde	7421-93-4	19.1	<1.12	ug/kg dry	
Endrin Ketone	53494-70-5	19.1	<1.48	ug/kg dry	
gamma-BHC	58-89-9	19.1	<1.01	ug/kg dry	
Heptachlor	76-44-8	19.1	<1.14	ug/kg dry	
Heptachlor Epoxide	1024-57-3	19.1	<0.960	ug/kg dry	
Methoxychlor	72-43-5	19.1	<1.60	ug/kg dry	
Mirex	2385-85-5	19.1	<1.91	ug/kg dry	
Mirex (2C)	2385-85-5	19.1	<1.91	ug/kg dry	
Toxaphene	8001-35-2	382	<72.8	ug/kg dry	
trans-Chlordane	5103-74-2	19.1	10.9	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	71	50.4-127	
Tetrachloro-m-xylene	877-09-8	71	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	117	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	38.2	<6.27	ug/kg dry	
Aroclor-1221	11104-28-2	38.2	<38.2	ug/kg dry	
Aroclor-1232	11141-16-5	38.2	<38.2	ug/kg dry	
Aroclor-1242	53469-21-9	38.2	<38.2	ug/kg dry	
Aroclor-1248	12672-29-6	38.2	<38.2	ug/kg dry	
Aroclor-1254	11097-69-1	38.2	<38.2	ug/kg dry	
Aroclor-1260	11096-82-5	38.2	<8.87	ug/kg dry	
Aroclor-1262	37324-23-5	38.2	<38.2	ug/kg dry	
Aroclor-1268	11100-14-4	38.2	<38.2	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	87	32.5-149	
Tetrachloro-m-xylene	877-09-8	75	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	122	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	95.6	<19.0	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	95.6	<28.6	ug/kg dry	
2,4-D	94-75-7	95.6	<23.0	ug/kg dry	
Dicamba	1918-00-9	95.6	<14.4	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	30	36.3-123	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	109	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	29.0	9620	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	4.84	<4.84	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	4.84	5.23	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	4.84	52.5	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	4.84	<4.84	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	4.84	<4.84	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	29.0	1660	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	4.84	19.5	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	4.84	5.03	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	4.84	16.8	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	14.5	9190	mg/kg dry	
Lead	11/08/2018	EPA 6010 C	4.84	23.3	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	14.5	1600	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	4.84	268	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	4.84	12.0	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	29.0	577	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	4.84	<4.84	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	4.84	<4.84	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	14.5	77.3	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	4.84	<4.84	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	4.84	27.7	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	4.84	50.2	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.38	4.78	mg/kg dry	3.E

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05	% Solid:26.15
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 17:46	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A
Nitrite as N	10/30/2018 17:46	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.357	680	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05	% Solid:26.15
Matrix: Soil	ELAP: #11693	

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:12	Sample ID: Pond -5
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-05 % Solid:26.15
Matrix: Soil	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	3.500	<3.500	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.94	<0.444	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.94	<0.378	ug/kg dry	4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	5.94	<0.671	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.94	<0.591	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.94	<0.690	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.94	<0.578	ug/kg dry	
1,1-Dichloroethene	75-35-4	5.94	<0.776	ug/kg dry	
1,1-Dichloropropene	563-58-6	5.94	4.58	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.94	<0.519	ug/kg dry	
1,2,3-Trichloropropane	96-18-4	5.94	<0.621	ug/kg dry	
1,2,4,5-Tetramethylbenzene	95-93-2	5.94	<0.626	ug/kg dry	2.B
1,2,4-Trichlorobenzene	120-82-1	5.94	<0.682	ug/kg dry	
1,2,4-Trimethylbenzene	95-63-6	5.94	<0.464	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.94	<0.884	ug/kg dry	4.J
1,2-Dibromoethane	106-93-4	5.94	<0.734	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.94	<0.428	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.94	<0.747	ug/kg dry	4.K
1,2-Dichloropropane	78-87-5	5.94	<0.507	ug/kg dry	
1,3,5-Trimethylbenzene	108-67-8	5.94	<0.435	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.94	<0.453	ug/kg dry	
1,3-Dichloropropane	142-28-9	5.94	<0.759	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.94	<0.417	ug/kg dry	
1,4-Diethylbenzene	105-05-5	5.94	<0.400	ug/kg dry	2.B
1,4-Dioxane	123-91-1	29.7	<20.8	ug/kg dry	
2,2-Dichloropropane	594-20-7	5.94	<0.449	ug/kg dry	4.K, 4.M
2-Chloroethyl Vinyl Ether	110-75-8	5.94	<0.373	ug/kg dry	
2-Chlorotoluene	95-49-8	5.94	<0.406	ug/kg dry	
4-Chlorotoluene	106-43-4	5.94	<0.521	ug/kg dry	
4-Ethyltoluene	622-96-8	5.94	<0.526	ug/kg dry	2.B
4-Isopropyltoluene	99-87-6	5.94	2.39	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	11.9	<0.972	ug/kg dry	
Acetone	67-64-1	23.8	50.0	ug/kg dry	
Acrolein	107-02-8	5.94	<1.14	ug/kg dry	
Acrylonitrile	107-13-1	5.94	3.50	ug/kg dry	
Benzene	71-43-2	5.94	<0.474	ug/kg dry	
Bromobenzene	108-86-1	5.94	<0.529	ug/kg dry	
Bromochloromethane	74-97-5	5.94	1.48	ug/kg dry	
Bromodichloromethane	75-27-4	5.94	<0.627	ug/kg dry	
Bromoform	75-25-2	5.94	<0.980	ug/kg dry	
Bromomethane	74-83-9	5.94	<1.58	ug/kg dry	
Carbon disulfide	75-15-0	5.94	<0.900	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.94	<0.683	ug/kg dry	4.K, 4.M
Chlorobenzene	108-90-7	5.94	<0.567	ug/kg dry	
Chlorodifluoromethane	75-45-6	5.94	<0.247	ug/kg dry	2.B
Chloroethane	75-00-3	5.94	<1.45	ug/kg dry	
Chloroform	67-66-3	5.94	<0.583	ug/kg dry	4.K
Chloromethane	74-87-3	5.94	<0.501	ug/kg dry	
cis-1,2-Dichloroethene	156-59-2	5.94	1.77	ug/kg dry	4.K
cis-1,3-Dichloropropene	10061-01-5	5.94	<0.545	ug/kg dry	
Dibromochloromethane	124-48-1	5.94	<0.785	ug/kg dry	
Dibromomethane	74-95-3	5.94	<0.735	ug/kg dry	
Dichlorodifluoromethane	75-71-8	5.94	<0.453	ug/kg dry	
Ethylbenzene	100-41-4	5.94	<0.431	ug/kg dry	
Hexachlorobutadiene	87-68-3	5.94	<0.548	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.94	<0.371	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	11.9	1.40	ug/kg dry	
Methyl Acetate	79-20-9	5.94	<0.533	ug/kg dry	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	5.94	<0.848	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	11.9	<1.73	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.94	<3.60	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.94	<0.683	ug/kg dry	
Naphthalene	91-20-3	5.94	<0.584	ug/kg dry	
n-Butylbenzene	104-51-8	5.94	1.57	ug/kg dry	
n-Propylbenzene	103-65-1	5.94	<0.416	ug/kg dry	
o-Xylene	95-47-6	5.94	<0.413	ug/kg dry	
sec-Butylbenzene	135-98-8	5.94	1.25	ug/kg dry	
Styrene	100-42-5	5.94	<0.835	ug/kg dry	
tert-Butyl alcohol	75-65-0	5.94	<1.94	ug/kg dry	4.M, 4.K
tert-Butylbenzene	98-06-6	5.94	<0.502	ug/kg dry	
Tetrachloroethene	127-18-4	5.94	<0.545	ug/kg dry	
Toluene	108-88-3	5.94	<0.548	ug/kg dry	
trans-1,2-Dichloroethene	156-60-5	5.94	<0.726	ug/kg dry	
trans-1,3-Dichloropropene	10061-02-6	5.94	<0.825	ug/kg dry	
Trichloroethene	79-01-6	5.94	<0.300	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.94	<0.523	ug/kg dry	
Vinyl Acetate	108-05-4	5.94	1.09	ug/kg dry	
Vinyl chloride	75-01-4	5.94	<0.607	ug/kg dry	4.K, 4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	105	71.6-131	
4-Bromofluorobenzene	460-00-4	129	75.4-133	
Dibromofluoromethane	1868-53-7	116	75.6-135	
Toluene-d8	2037-26-5	88	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	75	50-200	
1,4-Difluorobenzene	540-36-3	117	50-200	
Chlorobenzene-d5	3114-55-4	112	50-200	
Pentafluorobenzene	363-72-4	120	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	179	<96.7	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	179	<77.0	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	179	<81.7	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	179	<84.4	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	179	<108	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	179	<91.5	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	179	<75.2	ug/kg dry	
2,4-Dichlorophenol	120-83-2	179	<91.5	ug/kg dry	
2,4-Dimethylphenol	105-67-9	179	<123	ug/kg dry	
2,4-Dinitrophenol	51-28-5	357	<102	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	179	<107	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	179	<110	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	179	<113	ug/kg dry	
2-Chlorophenol	95-57-8	179	<100	ug/kg dry	
2-Methylnaphthalene	91-57-6	179	<94.2	ug/kg dry	
2-Methylphenol	95-48-7	357	<188	ug/kg dry	
2-Nitroaniline	88-74-4	179	<91.4	ug/kg dry	
2-Nitrophenol	88-75-5	179	<94.6	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	357	<247	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	179	<156	ug/kg dry	
3-Nitroaniline	99-09-2	179	<134	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	179	<101	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	179	<102	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	179	<99.2	ug/kg dry	
4-Chloroaniline	106-47-8	179	<86.7	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	179	<90.2	ug/kg dry	
4-Nitroaniline	100-01-6	179	<71.8	ug/kg dry	
4-Nitrophenol	100-02-7	179	<117	ug/kg dry	
Acenaphthene	83-32-9	179	<86.7	ug/kg dry	
Acenaphthylene	208-96-8	179	<102	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	179	<81.3	ug/kg dry	
Anthracene	120-12-7	179	<100	ug/kg dry	
Benzidine	92-87-5	357	<252	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	179	<91.4	ug/kg dry	
Benzo(a)pyrene	50-32-8	179	<105	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	357	<102	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	179	<104	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	179	<94.2	ug/kg dry	
Benzoic Acid	65-85-0	357	<176	ug/kg dry	
Benzyl alcohol	100-51-6	357	<117	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	179	<109	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	179	<91.9	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	179	<95.1	ug/kg dry	
Butyl benzyl phthalate	85-68-7	179	<91.8	ug/kg dry	
Carbazole	86-74-8	179	<95.9	ug/kg dry	
Chrysene	218-01-9	179	<93.3	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	179	<124	ug/kg dry	
Dibenzofuran	132-64-9	179	<93.7	ug/kg dry	
Diethyl phthalate	84-66-2	179	<107	ug/kg dry	
Dimethyl phthalate	131-11-3	179	<94.4	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	357	<104	ug/kg dry	
Di-n-octyl phthalate	117-84-0	179	<118	ug/kg dry	
Fluoranthene	206-44-0	179	<102	ug/kg dry	
Fluorene	86-73-7	179	<93.1	ug/kg dry	
Hexachlorobenzene	118-74-1	179	<87.2	ug/kg dry	
Hexachlorobutadiene	87-68-3	179	<73.4	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	357	<108	ug/kg dry	4.J
Hexachloroethane	67-72-1	179	<95.9	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	179	<105	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	357	<223	ug/kg dry	
Naphthalene	91-20-3	179	<84.6	ug/kg dry	
Nitrobenzene	98-95-3	179	<114	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	179	<91.3	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	179	<102	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	179	<111	ug/kg dry	
Parathion (ethyl)	56-38-2	179	<112	ug/kg dry	
Pentachlorophenol	87-86-5	179	<132	ug/kg dry	
Phenanthrene	85-01-8	179	<99.7	ug/kg dry	
Phenol	108-95-2	179	<110	ug/kg dry	
Pyrene	129-00-0	179	<98.7	ug/kg dry	
Pyridine	110-86-1	179	<97.8	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	26	30.8-109	4.D
2-Fluorobiphenyl	321-60-8	46	32.6-96.2	
2-Fluorophenol	367-12-4	42	32.8-95.8	
Nitrobenzene-d5	4165-60-0	43	28.1-100	
Phenol-d6	13127-88-3	45	31.2-102	
Terphenyl-d14	1718-51-0	56	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	98	50-200	
Acenaphthene-d10	15067-26-2	95	50-200	
Chrysene-d12	1719-03-5	85	50-200	
Naphthalene-d8	1146-65-2	99	50-200	
Perylene-d12	1520-96-3	90	50-200	
Phenanthrene-d10	1517-22-2	91	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	3.57	<0.356	ug/kg dry	
4,4'-DDE	72-55-9	3.57	<0.313	ug/kg dry	
4,4'-DDT	50-29-3	3.57	<0.387	ug/kg dry	
Aldrin	309-00-2	5.95	0.666	ug/kg dry	
alpha-BHC	319-84-6	5.95	2.57	ug/kg dry	
beta-BHC	319-85-7	5.95	2.55	ug/kg dry	
cis-Chlordane	5103-71-9	5.95	<0.393	ug/kg dry	
delta-BHC	319-86-8	5.95	1.26	ug/kg dry	
Dieldrin	60-57-1	5.95	<0.376	ug/kg dry	
Endosulfan I	959-98-8	5.95	<0.312	ug/kg dry	
Endosulfan II	33213-65-9	5.95	0.857	ug/kg dry	
Endosulfan Sulfate	1031-07-8	5.95	<0.571	ug/kg dry	
Endrin	72-20-8	5.95	<0.356	ug/kg dry	
Endrin Aldehyde	7421-93-4	5.95	1.12	ug/kg dry	
Endrin Ketone	53494-70-5	5.95	<0.459	ug/kg dry	
gamma-BHC	58-89-9	5.95	1.40	ug/kg dry	
Heptachlor	76-44-8	5.95	0.381	ug/kg dry	
Heptachlor Epoxide	1024-57-3	5.95	<0.299	ug/kg dry	
Methoxychlor	72-43-5	5.95	<0.497	ug/kg dry	
Mirex	2385-85-5	5.95	<0.595	ug/kg dry	
Mirex (2C)	2385-85-5	5.95	<0.595	ug/kg dry	
Toxaphene	8001-35-2	119	<22.7	ug/kg dry	
trans-Chlordane	5103-74-2	5.95	<0.382	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	100	50.4-127	
Tetrachloro-m-xylene	877-09-8	97	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	106	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	11.9	<1.95	ug/kg dry	
Aroclor-1221	11104-28-2	11.9	<11.9	ug/kg dry	
Aroclor-1232	11141-16-5	11.9	<11.9	ug/kg dry	
Aroclor-1242	53469-21-9	11.9	<11.9	ug/kg dry	
Aroclor-1248	12672-29-6	11.9	<11.9	ug/kg dry	
Aroclor-1254	11097-69-1	11.9	<11.9	ug/kg dry	
Aroclor-1260	11096-82-5	11.9	<2.76	ug/kg dry	
Aroclor-1262	37324-23-5	11.9	<11.9	ug/kg dry	
Aroclor-1268	11100-14-4	11.9	<11.9	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	126	32.5-149	
Tetrachloro-m-xylene	877-09-8	103	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	111	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	29.8	<5.93	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	29.8	<8.90	ug/kg dry	
2,4-D	94-75-7	29.8	<7.16	ug/kg dry	
Dicamba	1918-00-9	29.8	<4.49	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	26	36.3-123	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	109	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	10.5	586	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	1.75	3.48	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	10.5	232	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	1.75	2.13	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	5.25	1390	mg/kg dry	
Lead	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	5.25	227	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	1.75	16.0	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	10.5	92.6	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	5.25	55.2	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	1.75	<1.75	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	1.75	3.62	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	1.75	3.34	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.02	<0.02	mg/kg dry	

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06	% Solid:84.03
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 18:08	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A
Nitrite as N	10/30/2018 18:08	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.0987	65.1	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06	% Solid:84.03
Matrix: Soil	ELAP: #11693	

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 10:50	Sample ID: FP-1
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-06 % Solid:84.03
Matrix: Soil	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	1.200	<1.200	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	17.3	<1.29	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	17.3	<1.10	ug/kg dry	4.K, 4.M
1,1,2,2-Tetrachloroethane	79-34-5	17.3	<1.96	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	17.3	<1.72	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	17.3	<2.01	ug/kg dry	
1,1-Dichloroethane	75-34-3	17.3	<1.69	ug/kg dry	
1,1-Dichloroethene	75-35-4	17.3	<2.26	ug/kg dry	
1,1-Dichloropropene	563-58-6	17.3	<1.82	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	17.3	<1.51	ug/kg dry	
1,2,3-Trichloropropane	96-18-4	17.3	<1.81	ug/kg dry	
1,2,4,5-Tetramethylbenzene	95-93-2	17.3	<1.82	ug/kg dry	2.B
1,2,4-Trichlorobenzene	120-82-1	17.3	<1.99	ug/kg dry	
1,2,4-Trimethylbenzene	95-63-6	17.3	4.29	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	17.3	<2.58	ug/kg dry	4.J
1,2-Dibromoethane	106-93-4	17.3	<2.14	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	17.3	<1.25	ug/kg dry	
1,2-Dichloroethane	107-06-2	17.3	<2.18	ug/kg dry	4.K
1,2-Dichloropropane	78-87-5	17.3	<1.48	ug/kg dry	
1,3,5-Trimethylbenzene	108-67-8	17.3	<1.27	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	17.3	<1.32	ug/kg dry	
1,3-Dichloropropane	142-28-9	17.3	<2.21	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	17.3	<1.22	ug/kg dry	
1,4-Diethylbenzene	105-05-5	17.3	<1.17	ug/kg dry	2.B
1,4-Dioxane	123-91-1	86.5	<60.6	ug/kg dry	
2,2-Dichloropropane	594-20-7	17.3	<1.31	ug/kg dry	4.K, 4.M
2-Chloroethyl Vinyl Ether	110-75-8	17.3	<1.09	ug/kg dry	
2-Chlorotoluene	95-49-8	17.3	<1.18	ug/kg dry	
4-Chlorotoluene	106-43-4	17.3	<1.52	ug/kg dry	
4-Ethyltoluene	622-96-8	17.3	4.29	ug/kg dry	2.B
4-Isopropyltoluene	99-87-6	17.3	6.92	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	34.6	<2.83	ug/kg dry	
Acetone	67-64-1	69.2	121	ug/kg dry	
Acrolein	107-02-8	17.3	<3.32	ug/kg dry	
Acrylonitrile	107-13-1	17.3	10.2	ug/kg dry	
Benzene	71-43-2	17.3	<1.38	ug/kg dry	
Bromobenzene	108-86-1	17.3	<1.54	ug/kg dry	
Bromochloromethane	74-97-5	17.3	4.71	ug/kg dry	
Bromodichloromethane	75-27-4	17.3	<1.83	ug/kg dry	
Bromoform	75-25-2	17.3	<2.86	ug/kg dry	
Bromomethane	74-83-9	17.3	<4.60	ug/kg dry	
Carbon disulfide	75-15-0	17.3	<2.62	ug/kg dry	
Carbon Tetrachloride	56-23-5	17.3	<1.99	ug/kg dry	4.K, 4.M
Chlorobenzene	108-90-7	17.3	<1.65	ug/kg dry	
Chlorodifluoromethane	75-45-6	17.3	<0.720	ug/kg dry	2.B
Chloroethane	75-00-3	17.3	<4.22	ug/kg dry	
Chloroform	67-66-3	17.3	<1.70	ug/kg dry	4.K
Chloromethane	74-87-3	17.3	<1.46	ug/kg dry	
cis-1,2-Dichloroethene	156-59-2	17.3	5.47	ug/kg dry	4.K
cis-1,3-Dichloropropene	10061-01-5	17.3	<1.59	ug/kg dry	
Dibromochloromethane	124-48-1	17.3	<2.29	ug/kg dry	
Dibromomethane	74-95-3	17.3	<2.14	ug/kg dry	
Dichlorodifluoromethane	75-71-8	17.3	<1.32	ug/kg dry	
Ethylbenzene	100-41-4	17.3	<1.26	ug/kg dry	
Hexachlorobutadiene	87-68-3	17.3	<1.60	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	17.3	5.99	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	34.6	4.12	ug/kg dry	
Methyl Acetate	79-20-9	17.3	<1.55	ug/kg dry	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	17.3	<2.47	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	34.6	41.8	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	17.3	<10.5	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	17.3	<1.99	ug/kg dry	
Naphthalene	91-20-3	17.3	<1.70	ug/kg dry	
n-Butylbenzene	104-51-8	17.3	4.57	ug/kg dry	
n-Propylbenzene	103-65-1	17.3	<1.21	ug/kg dry	
o-Xylene	95-47-6	17.3	<1.20	ug/kg dry	
sec-Butylbenzene	135-98-8	17.3	<1.32	ug/kg dry	
Styrene	100-42-5	17.3	<2.43	ug/kg dry	
tert-Butyl alcohol	75-65-0	17.3	11.4	ug/kg dry	4.M, 4.K
tert-Butylbenzene	98-06-6	17.3	<1.46	ug/kg dry	
Tetrachloroethene	127-18-4	17.3	<1.59	ug/kg dry	
Toluene	108-88-3	17.3	<1.60	ug/kg dry	
trans-1,2-Dichloroethene	156-60-5	17.3	<2.12	ug/kg dry	
trans-1,3-Dichloropropene	10061-02-6	17.3	<2.41	ug/kg dry	
Trichloroethene	79-01-6	17.3	<0.876	ug/kg dry	
Trichlorofluoromethane	75-69-4	17.3	<1.52	ug/kg dry	
Vinyl Acetate	108-05-4	17.3	<1.22	ug/kg dry	
Vinyl chloride	75-01-4	17.3	<1.77	ug/kg dry	4.K, 4.M

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	109	71.6-131	
4-Bromofluorobenzene	460-00-4	145	75.4-133	4.E
Dibromofluoromethane	1868-53-7	117	75.6-135	
Toluene-d8	2037-26-5	92	79.9-123	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	57	50-200	
1,4-Difluorobenzene	540-36-3	109	50-200	
Chlorobenzene-d5	3114-55-4	101	50-200	
Pentafluorobenzene	363-72-4	112	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 5035A-L

Date Analyzed: 10/30/2018

Analytical Method: EPA 8260 C

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	754	<408	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	754	<325	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	754	<345	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	754	<356	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	754	<455	ug/kg dry	4.J
2,4,5-Trichlorophenol	95-95-4	754	<386	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	754	<318	ug/kg dry	
2,4-Dichlorophenol	120-83-2	754	<386	ug/kg dry	
2,4-Dimethylphenol	105-67-9	754	<521	ug/kg dry	
2,4-Dinitrophenol	51-28-5	1510	<430	ug/kg dry	4.J
2,4-Dinitrotoluene	121-14-2	754	<450	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	754	<466	ug/kg dry	4.J
2-Chloronaphthalene	91-58-7	754	<476	ug/kg dry	
2-Chlorophenol	95-57-8	754	<424	ug/kg dry	
2-Methylnaphthalene	91-57-6	754	<398	ug/kg dry	
2-Methylphenol	95-48-7	1510	<792	ug/kg dry	
2-Nitroaniline	88-74-4	754	<386	ug/kg dry	
2-Nitrophenol	88-75-5	754	<400	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	1510	<1040	ug/kg dry	
3/4-Methylphenol	108-39-4/106-44-5	754	<661	ug/kg dry	
3-Nitroaniline	99-09-2	754	<567	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	754	<429	ug/kg dry	
4-Bromophenyl phenyl ether	101-55-3	754	<429	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	754	<419	ug/kg dry	
4-Chloroaniline	106-47-8	754	<366	ug/kg dry	
4-Chlorophenyl phenyl ether	7005-72-3	754	<381	ug/kg dry	
4-Nitroaniline	100-01-6	754	<303	ug/kg dry	
4-Nitrophenol	100-02-7	754	<494	ug/kg dry	
Acenaphthene	83-32-9	754	<366	ug/kg dry	
Acenaphthylene	208-96-8	754	<432	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	754	<343	ug/kg dry	
Anthracene	120-12-7	754	<424	ug/kg dry	
Benzidine	92-87-5	1510	<1070	ug/kg dry	4.J
Benzo(a)anthracene	56-55-3	754	<386	ug/kg dry	
Benzo(a)pyrene	50-32-8	754	<444	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	1510	442	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	754	<438	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	754	<398	ug/kg dry	
Benzoic Acid	65-85-0	1510	<742	ug/kg dry	
Benzyl alcohol	100-51-6	1510	<494	ug/kg dry	4.J
bis(2-Chloroethoxy)methane	111-91-1	754	<461	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	754	<388	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	754	<401	ug/kg dry	
Butyl benzyl phthalate	85-68-7	754	<388	ug/kg dry	
Carbazole	86-74-8	754	<405	ug/kg dry	
Chrysene	218-01-9	754	474	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	754	<524	ug/kg dry	
Dibenzofuran	132-64-9	754	<396	ug/kg dry	
Diethyl phthalate	84-66-2	754	<450	ug/kg dry	
Dimethyl phthalate	131-11-3	754	<399	ug/kg dry	4.J
Di-n-butyl phthalate	84-74-2	1510	<439	ug/kg dry	
Di-n-octyl phthalate	117-84-0	754	<498	ug/kg dry	
Fluoranthene	206-44-0	754	932	ug/kg dry	
Fluorene	86-73-7	754	<393	ug/kg dry	
Hexachlorobenzene	118-74-1	754	<368	ug/kg dry	
Hexachlorobutadiene	87-68-3	754	<310	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	1510	<455	ug/kg dry	4.J
Hexachloroethane	67-72-1	754	<405	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	754	<445	ug/kg dry	

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	1510	<944	ug/kg dry	
Naphthalene	91-20-3	754	<357	ug/kg dry	
Nitrobenzene	98-95-3	754	<481	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	754	<386	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	754	<433	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	754	<470	ug/kg dry	
Parathion (ethyl)	56-38-2	754	<474	ug/kg dry	
Pentachlorophenol	87-86-5	754	<558	ug/kg dry	
Phenanthrene	85-01-8	754	548	ug/kg dry	
Phenol	108-95-2	754	<464	ug/kg dry	
Pyrene	129-00-0	754	848	ug/kg dry	
Pyridine	110-86-1	754	<413	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	36	30.8-109	
2-Fluorobiphenyl	321-60-8	29	32.6-96.2	4.D
2-Fluorophenol	367-12-4	33	32.8-95.8	
Nitrobenzene-d5	4165-60-0	32	28.1-100	
Phenol-d6	13127-88-3	34	31.2-102	
Terphenyl-d14	1718-51-0	36	32.6-110	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1,4-Dichlorobenzene-d4	3855-82-1	92	50-200	
Acenaphthene-d10	15067-26-2	90	50-200	
Chrysene-d12	1719-03-5	82	50-200	
Naphthalene-d8	1146-65-2	93	50-200	
Perylene-d12	1520-96-3	88	50-200	
Phenanthrene-d10	1517-22-2	88	50-200	

Date Prepared: 11/01/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/05/2018

Analytical Method: EPA 8270 D

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Pesticides Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
4,4'-DDD	72-54-8	5.03	7.74	ug/kg dry	
4,4'-DDE	72-55-9	5.03	10.1	ug/kg dry	
4,4'-DDT	50-29-3	5.03	2.81	ug/kg dry	
Aldrin	309-00-2	8.38	<0.483	ug/kg dry	
alpha-BHC	319-84-6	8.38	6.03	ug/kg dry	
beta-BHC	319-85-7	8.38	<0.643	ug/kg dry	
cis-Chlordane	5103-71-9	8.38	0.905	ug/kg dry	
delta-BHC	319-86-8	8.38	1.91	ug/kg dry	
Dieldrin	60-57-1	8.38	0.771	ug/kg dry	
Endosulfan I	959-98-8	8.38	1.37	ug/kg dry	
Endosulfan II	33213-65-9	8.38	0.670	ug/kg dry	
Endosulfan Sulfate	1031-07-8	8.38	<0.804	ug/kg dry	
Endrin	72-20-8	8.38	1.11	ug/kg dry	
Endrin Aldehyde	7421-93-4	8.38	2.88	ug/kg dry	
Endrin Ketone	53494-70-5	8.38	<0.647	ug/kg dry	
gamma-BHC	58-89-9	8.38	1.98	ug/kg dry	
Heptachlor	76-44-8	8.38	<0.501	ug/kg dry	
Heptachlor Epoxide	1024-57-3	8.38	<0.421	ug/kg dry	
Methoxychlor	72-43-5	8.38	<0.700	ug/kg dry	
Mirex	2385-85-5	8.38	<0.838	ug/kg dry	
Mirex (2C)	2385-85-5	8.38	<0.838	ug/kg dry	
Toxaphene	8001-35-2	168	<31.9	ug/kg dry	
trans-Chlordane	5103-74-2	8.38	1.84	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	85	50.4-127	
Tetrachloro-m-xylene	877-09-8	87	57.5-127	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	110	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8081 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

PCB/Aroclor Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
Aroclor-1016	12674-11-2	16.8	<2.75	ug/kg dry	
Aroclor-1221	11104-28-2	16.8	<16.8	ug/kg dry	
Aroclor-1232	11141-16-5	16.8	<16.8	ug/kg dry	
Aroclor-1242	53469-21-9	16.8	<16.8	ug/kg dry	
Aroclor-1248	12672-29-6	16.8	<16.8	ug/kg dry	
Aroclor-1254	11097-69-1	16.8	<16.8	ug/kg dry	
Aroclor-1260	11096-82-5	16.8	<3.89	ug/kg dry	
Aroclor-1262	37324-23-5	16.8	<16.8	ug/kg dry	
Aroclor-1268	11100-14-4	16.8	<16.8	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Decachlorobiphenyl	2051-24-3	102	32.5-149	
Tetrachloro-m-xylene	877-09-8	93	58.7-131	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
1-Bromo-2-Nitrobenzene	108-31-6	113	50-200	

Date Prepared: 10/30/2018

Preparation Method: EPA 3545 A

Date Analyzed: 10/31/2018

Analytical Method: EPA 8082 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Herbicide Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
2,4,5-T	93-76-5	41.9	<8.34	ug/kg dry	
2,4,5-TP (Silvex)	93-72-1	41.9	<12.5	ug/kg dry	
2,4-D	94-75-7	41.9	<10.1	ug/kg dry	
Dicamba	1918-00-9	41.9	<6.32	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4-Dichlorophenylacetic Acid	19719-28-9	30	36.3-123	4.D

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
4,4'-Dibromoocafluorobiphenyl	10386-84-2	106	50-200	

Date Prepared: 11/08/2018

Preparation Method: EPA 3545 A

Date Analyzed: 11/19/2018

Analytical Method: EPA 8151 A

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Aluminum	11/08/2018	EPA 6010 C	14.6	3970	mg/kg dry	
Antimony	11/08/2018	EPA 6010 C	2.44	<2.44	mg/kg dry	
Arsenic	11/08/2018	EPA 6010 C	2.44	3.12	mg/kg dry	
Barium	11/08/2018	EPA 6010 C	2.44	30.2	mg/kg dry	
Beryllium	11/08/2018	EPA 6010 C	2.44	<2.44	mg/kg dry	
Cadmium	11/08/2018	EPA 6010 C	2.44	<2.44	mg/kg dry	
Calcium	11/08/2018	EPA 6010 C	14.6	409	mg/kg dry	
Chromium	11/08/2018	EPA 6010 C	2.44	8.09	mg/kg dry	
Cobalt	11/08/2018	EPA 6010 C	2.44	3.55	mg/kg dry	
Copper	11/08/2018	EPA 6010 C	2.44	19.3	mg/kg dry	
Iron	11/08/2018	EPA 6010 C	73.1	14100	mg/kg dry	3.E
Lead	11/08/2018	EPA 6010 C	2.44	180	mg/kg dry	
Magnesium	11/08/2018	EPA 6010 C	7.31	672	mg/kg dry	
Manganese	11/08/2018	EPA 6010 C	2.44	74.9	mg/kg dry	
Nickel	11/08/2018	EPA 6010 C	2.44	7.50	mg/kg dry	
Potassium	11/08/2018	EPA 6010 C	14.6	401	mg/kg dry	4.N
Selenium	11/08/2018	EPA 6010 C	2.44	<2.44	mg/kg dry	
Silver	11/08/2018	EPA 6010 C	2.44	<2.44	mg/kg dry	
Sodium	11/08/2018	EPA 6010 C	7.31	118	mg/kg dry	
Thallium	11/08/2018	EPA 6010 C	2.44	<2.44	mg/kg dry	
Vanadium	11/08/2018	EPA 6010 C	2.44	18.2	mg/kg dry	
Zinc	11/08/2018	EPA 6010 C	2.44	62.9	mg/kg dry	

Date Prepared: 11/07/2018 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	11/13/2018	EPA 7471 B	0.02	0.11	mg/kg dry	

Date Prepared: 11/06/2018 Preparation Method: EPA 7471 B

Client: Nelson, Pope & Voorhis	Client ID: IHCC	
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2	
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07	% Solid:59.69
Matrix: Soil	ELAP: #11693	

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Nitrogen	11/06/2018 10:37	Calculation	190	<190	mg/kg	

Date Prepared: 11/06/2018 Preparation Method: [CALC]

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Nitrate as N	10/30/2018 18:31	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A, 4.G
Nitrite as N	10/30/2018 18:31	EPA 9056 A	25.0	<25.0	mg/kg dry	3.A, 4.G

Date Prepared: 10/30/2018 Preparation Method: IC Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Kjeldahl Nitrogen	11/06/2018 10:37	SM 4500 NH3 C-2011	140	<140	mg/kg	3.E

Date Prepared: 11/06/2018 Preparation Method: SM4500-Norg B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Phosphorus-Total	11/02/2018 13:36	SM 4500-P E-2011	0.140	302	mg/kg dry	

Date Prepared: 11/02/2018 Preparation Method: No Preparation

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Microbiological Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Total Coliform	10/29/2018 13:23	SM 9221 B-06	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Fecal Coliforms	10/29/2018 13:23	SM 9221C E-2006	1.8	<1.8	MPN/100 mL	

Date Prepared: 10/29/2018 Preparation Method: Micro-No Prep

Client: Nelson, Pope & Voorhis	Client ID: IHCC
Date (Time) Collected: 10/29/2018 11:00	Sample ID: FP-2
Date (Time) Received: 10/29/2018 15:20	Laboratory ID: 8102915-07 % Solid:59.69
Matrix: Soil	ELAP: #11693

Subcontracted Analyses

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
2,3,7,8-TCDD (Dioxin)	11/26/2018 08:57	EPA 1613B	1.900	<1.900	ug/kg	6.W

Date Prepared: 11/05/2018

Preparation Method: Outside Preparation

Data Qualifiers Key Reference:

2.B	Parameter not certifiable by NELAP.
3.A	Reporting limit raised due to matrix interference.
3.E	Compound reported at a dilution factor.
4.D	Surrogate recovery has failed low.
4.E	Surrogate recovery has failed high.
4.G	Spike recovery out of range due to matrix interference.
4.J	Continuing Calibration Verification (CCV) quality control levels failed low, values are considered to be estimated.
4.K	Continuing Calibration Verification (CCV) quality control levels failed high, values are considered to be estimated.
4.M	LCS recovery was above QC acceptance limit.
4.N	LCS recovery was below QC acceptance limit.
6.W	Subcontractor ELAP #10842
MDL	Minimum Detection Limit
LOQ	Limit of Quantitation

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CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: NPV, 572 Walt Whitman Rd, Melville, N.Y. 11747

CONTACT: Steve McGrin
PHONE: 427-5665
EMAIL:

SAMPLER (SIGNATURE): [signature]
SAMPLER NAME (PRINT): Jonathan McGrin

SAMPLE(S) SEALED: YES / NO (YES circled)
CORRECT CONTAINER(S): YES / NO (YES circled)

8102915

PROJECT LOCATION: IHCC

SAMPLES RECEIVED AT 1.7°C

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month. Tendering of samples to LIAL for analytical testing constitutes agreement by buyer/sampler to LIAL's Standard terms

	LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	pH	RES. CHLORINE	PRES.	DATE	TIME	SAMPLE # LOCATION	8260	8270	23 RCRA 23	8081	8151	8082	dioxin	total+fecal coliform	total Nitrogen	Phosphorus				# OF CONTAINERS
1.	8102915-01	S	G			1	10/29/18	9:06	Pond-1	X	X	X	X	X	X	X	X	X	X				2
2.	02	S	G			1	↓	9:25	Pond-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓
3.	03	S	G			1	↓	9:49	Pond-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓
4.	04	S	G			1	↓	10:01	Pond-4	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓
5.	05	S	G			1	↓	10:12	Pond-5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓
6.	06	S	G			1	↓	10:50	FP-1	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓
7.	07	S	G			1	↓	11:00	FP-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓				↓
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							

MATRIX: S=SOIL; SL=SLUDGE; DW=DRINKING WATER; A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL, O=OIL, WW=WASTE WATER
TYPE: G=GRAB; C=COMPOSITE; SS=SPLIT SPOON
PRES: (1) ICE; (2) HCL; (3) H_2SO_4; (4) NAOH; (5) $NA_2S_3O_3$; (6) HNO_3; (7) OTHER

TURNAROUND REQUIRED: ☒ NORMAL ☐ STAT
BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY (SIGNATURE)	DATE / TIME	PRINTED NAME
[signature]	DATE 10/29/18 TIME 1:05	Jonathan McGrin	[signature]	DATE 10-29-18 TIME 130Pm	Ben Lamberson
RELINQUISHED BY (SIGNATURE)	DATE / TIME	PRINTED NAME	RECEIVED BY SAMPLE CUSTODIAN: [signature]	DATE 10-29-18 TIME 319Pm	PRINTED NAME: Ben Lamberson

WHITE - OFFICE / CANARY - CLIENT

REQUIRED CONTAINERS, PRESERVATION TECHNIQUES & HOLDING TIMES

NAME	CONTAINER[1]	PRESERVATION	MAX. HOLDING TIME
Bacterial Tests:			
Coliform, fecal & total	P,G	Cool 4°C, 0.008%$Na_2S_2O_3$ if cholorinated	6 hours
Fecal streptococci	P,G	Cool 4°C, 0.008%$Na_2S_2O_3$ if cholorinated	6 hours
Inorganic Tests:			
Acidity	P,G	Cool 4°C	14 days
Alkalinity	P,G	Cool 4°C	14 days
Ammonia	P,G	Cool 4°C, $H_2SO_4$to pH<2	28 days
BOD	P,G	Cool 4°C	48 hours
Bromide	P,G	None required	28 days
BOD, carbonaceous	P,G	Cool 4°C	48 hours
Chemical oxygen demand	P,G	Cool 4°C, H2SO4to pH<2	28 days
Chloride	P,G	None required	28 days
Chlorine, total residual	P,G	None requried	Analyze Immediately
Color	P,G	Cool 4°C	48 hours
Cyanide, total and amenable to chlorination	P,G	Cool, 4°C, NaOH to pH 12	14 days
Fluoride	P	None required	28 days
Hardness	P,G	$HNO_3$to pH<2, $H_2SO_4$to pH<2	6 months
Hydrogen ion (pH)	P,G	None required	Analyze Immediately
Kjedahl and organic nitrogen	P,G	Cool 4°C, $H_2SO_4$to pH<2	28 days
Metals:			
Chromium VI	P, G	Cool 4°C	24 hours
Mercury	P, G	NHO_3 to pH<2	28 days
Metals, except Chromium VI & mercury	P, G	NHO_3 to pH<2	6 months
Nitrate	P, G	Cool, 4°C	48 hours
Nitrate-nitrite	P, G	Cool, 4°C, H_2SO_4 to pH <2	28 days
Nitrite	P, G	Cool, 4°C	48 hours
Oil and grease	G	Cool, 4°C, H_2SO_4 to pH <2	28 days
Organic carbon	P,G	Cool, 4°C, HCl or H_2SO_4 to pH <2	28 days
Orthophosphate	P, G	Filter Immediately, cool, 4C°	48 hours
Oxygen, Dissolved Probe	G Bottle and top	None required	Analyze immediately
Winkler	G Bottle and top	Fix on site and store in dark	48 hours
Phenols	G	Cool, 4°C, Ph_3O_4 to pH <2	28 days
Phosphorus (elemental)	G	Cool, 4°C	48 hours
Phosphorus, total	P, G	Cool, 4°C, H_2SO_4 to pH <2	28 days
Residue, total	P, G	Cool, 4°C	7 days
Residue, filterable	P, G	Cool, 4°C	7 days
Residue, Nonfilterable (TSS)	P, G	Cool, 4°C	7 days
Residue, Settleable	P, G	Cool, 4°C	48 hours
Residue, Volatile	P, G	Cool, 4°C	7 days
Silica	P	Cool, 4°C	28 days
Specific conductance	P, G	Cool, 4°C	28 days
Sulfate	P, G	Cool, 4°C	28 days
Sulfide	P, G	Cool, 4°C, add zinc acetate + NaOH to pH>9	7 days
Sulfite	P, G	None required	Analyze immediately
Surfactants	P, G	Cool, 4°C	48 hours
Temperature	P, G	None required	Analyze immediately
Turbidity	P, G	Cool, 4°C	48 hours
Organic Tests:			
Purgeable Halocarbons	G, Teflon-lined septum	Cool, 4°C, 0.0008% $Na_2S_2O_3$	14 days
Purgeable aromatic hydrocarbons	G, Teflon-lined septum	Cool, 4°C, 0.0008% $Na_2S_2O_3$HCl to pH <2	14 days
Acrolein and acrylonitrile	G, Teflon-lined septum	Cool, 4°C, 0.0008% $Na_2S_2O_3$Adjust pH to 4-5	14 days
Phenols	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	7 days until extraction
Benzidines	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	7 days until extraction
Phthalate esters	G, Teflon-lined cap	Cool, 4°C	7 days until extraction
Nitrosamines	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$, store in dark	40 days after extraction
PCBs, acrylonitrile	G, Teflon-lined cap	Cool, 4°C	40 days after extraction
Nitroaromatics and isophorone	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$, store in dark	40 days after extraction
Polynuclear aromatic hydrocarbons	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$, store in dark	40 days after extraction
Haloethers	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	40 days after extraction
Chlorinated hydrocarbons	G, Teflon-lined cap	Cool, 4°C	40 days after extraction
TOC	G, Teflon-lined cap	Cool, 4°C, 0.0008% $Na_2S_2O_3$	7 days
Pesticides Tests:			
Pesticides	G, Teflon-lined cap	Cool, 4°C, pH 5-9	40 days after extraction

[1]Polyethylene (P) or Glass(G)

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5102 LaRoche Avenue

Savannah, GA 31404-6019
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Chain of Custody Record

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TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☒Other: SOIL

Client Contact	Project Manager: M. DVENACDI	Site Contact:	Date:	COC No:
Long Island Analytical Labs	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
110 Colin Drive	Analysis Turnaround Time			Sampler:
Holbrook, NY 11741	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
631-472-3400 Phone	TAT if different from Below ____			Walk-in Client:
631-472-8505 FAX	☑ 2 weeks			Lab Sampling:
Project Name: PFCs	☐ 1 week			
Site: IHCC	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	DIOXIN	Sample Specific Notes:
8102915-01	10-29-18	0906	G	S	1			X	
02		0915			1			X	
03		0949			1			X	
04		1001			1			X	
05		1012			1			X	
06		1050			1			X	
07		1100			1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ | Therm ID No.: ____

Ben Lamberson

Relinquished by:	Company: CAL	Date/Time: 10/24/18 3:44	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-160015-2
Client Project/Site: IHCC / 8102915

For:
Long Island Analytical Laboratories Inc
110 Colin Drive
Holbrook, New York 11741

Attn: Michael D Veraldi

Authorized for release by:
11/20/2018 5:06:28 PM

Sheila Hoffman, Project Manager II
(912)250-0279
sheila.hoffman@testamericainc.com

Method Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Method	Method Description	Protocol	Laboratory
1613B	Dioxins and Furans (HRGC/HRMS)	40CFR136A	TAL SAC
HRMS-Sox	Soxhlet Extraction	EPA	TAL SAC

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-160015-10	8102915 - 01	Solid	10/29/18 09:06	10/31/18 09:24
680-160015-11	8102915 - 02	Solid	10/29/18 09:25	10/31/18 09:24
680-160015-12	8102915 - 03	Solid	10/29/18 09:49	10/31/18 09:24
680-160015-13	8102915 - 04	Solid	10/29/18 10:01	10/31/18 09:24
680-160015-14	8102915 - 05	Solid	10/29/18 10:12	10/31/18 09:24
680-160015-15	8102915 - 06	Solid	10/29/18 10:50	10/31/18 09:24
680-160015-16	8102915 - 07	Solid	10/29/18 11:00	10/31/18 09:24

Definitions/Glossary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 680-160015-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Long Island Analytical Laboratories Inc

Project: IHCC / 8102915

Report Number: 680-160015-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 10/31/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

DIOXINS

Samples 8102915 - 01 (680-160015-10), 8102915 - 02 (680-160015-11), 8102915 - 03 (680-160015-12), 8102915 - 04 (680-160015-13), 8102915 - 05 (680-160015-14), 8102915 - 06 (680-160015-15) and 8102915 - 07 (680-160015-16) were analyzed for Dioxins in accordance with EPA Method 1613B. The samples were prepared on 11/05/2018 and analyzed on 11/11/2018 and 11/15/2018.

Several analytes were detected in method blank MB 320-257103/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples 8102915 - 01 (680-160015-10), 8102915 - 02 (680-160015-11), 8102915 - 03 (680-160015-12), 8102915 - 04 (680-160015-13), 8102915 - 05 (680-160015-14), 8102915 - 06 (680-160015-15) and 8102915 - 07 (680-160015-16) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/06/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample ID: 8102915 - 01

Date Collected: 10/29/18 09:06
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-10

Matrix: Solid
Percent Solids: 19.4

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.35	J q B	5.1	0.18	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
2,3,7,8-TCDF	2.6	J B	5.1	0.096	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,7,8-PeCDD	0.55	J	26	0.20	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,7,8-PeCDF	1.1	J B	26	0.16	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
2,3,4,7,8-PeCDF	0.76	J B	26	0.18	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,4,7,8-HxCDD	1.6	J B	26	0.23	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,6,7,8-HxCDD	1.7	J	26	0.22	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,7,8,9-HxCDD	2.7	J B	26	0.21	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,4,7,8-HxCDF	1.7	J B	26	0.37	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,6,7,8-HxCDF	0.66	J	26	0.38	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,7,8,9-HxCDF	2.8	J B	26	0.22	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
2,3,4,6,7,8-HxCDF	0.82	J	26	0.29	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,4,6,7,8-HpCDD	68	B	26	0.72	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,4,6,7,8-HpCDF	8.5	J B	26	0.61	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
1,2,3,4,7,8,9-HpCDF	3.7	J B	26	0.69	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
OCDD	4100	B	51	1.8	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1
OCDF	38	J B	51	0.20	pg/g	☼	11/05/18 16:24	11/11/18 01:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*87*		*25 - 164*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-2,3,7,8-TCDF	*82*		*24 - 169*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*25 - 181*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*24 - 185*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-2,3,4,7,8-PeCDF	*78*		*21 - 178*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,4,7,8-HxCDD	*81*		*32 - 141*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*28 - 130*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*78*		*26 - 152*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,6,7,8-HxCDF	*79*		*26 - 123*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-2,3,4,6,7,8-HxCDF	*79*		*28 - 136*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,7,8,9-HxCDF	*89*		*29 - 147*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*106*		*23 - 140*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*28 - 143*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*105*		*26 - 138*	*11/05/18 16:24*	*11/11/18 01:12*	*1*
13C-OCDD	*103*		*17 - 157*	*11/05/18 16:24*	*11/11/18 01:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*113*		*35 - 197*	*11/05/18 16:24*	*11/11/18 01:12*	*1*

Client Sample ID: 8102915 - 02

Date Collected: 10/29/18 09:25
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-11

Matrix: Solid
Percent Solids: 26.0

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.9	J B	3.8	0.14	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
2,3,7,8-TCDF	3.3	J B	3.8	0.10	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,7,8-PeCDD	0.78	J q	19	0.19	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,7,8-PeCDF	1.3	J B	19	0.15	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
2,3,4,7,8-PeCDF	1.1	J q B	19	0.17	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,4,7,8-HxCDD	2.1	J B	19	0.24	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1

Client Sample ID: 8102915 - 02

Date Collected: 10/29/18 09:25
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-11

Matrix: Solid
Percent Solids: 26.0

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	2.8	J	19	0.23	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,7,8,9-HxCDD	4.1	J B	19	0.22	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,4,7,8-HxCDF	2.2	J B	19	0.32	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,6,7,8-HxCDF	0.93	J q	19	0.32	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,7,8,9-HxCDF	3.0	J B	19	0.19	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
2,3,4,6,7,8-HxCDF	1.0	J	19	0.25	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,4,6,7,8-HpCDD	90	B	19	1.0	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,4,6,7,8-HpCDF	6.3	J B	19	0.19	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
1,2,3,4,7,8,9-HpCDF	2.9	J B	19	0.20	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
OCDD	5900	B	38	7.6	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1
OCDF	15	J B	38	0.14	pg/g	☼	11/05/18 16:24	11/11/18 01:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*82*		*25 - 164*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-2,3,7,8-TCDF	*79*		*24 - 169*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,7,8-PeCDD	*77*		*25 - 181*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*24 - 185*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-2,3,4,7,8-PeCDF	*77*		*21 - 178*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,4,7,8-HxCDD	*81*		*32 - 141*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,6,7,8-HxCDD	*81*		*28 - 130*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,4,7,8-HxCDF	*79*		*26 - 152*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,6,7,8-HxCDF	*76*		*26 - 123*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-2,3,4,6,7,8-HxCDF	*76*		*28 - 136*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,7,8,9-HxCDF	*85*		*29 - 147*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*103*		*23 - 140*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*28 - 143*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*105*		*26 - 138*	*11/05/18 16:24*	*11/11/18 01:58*	*1*
13C-OCDD	*106*		*17 - 157*	*11/05/18 16:24*	*11/11/18 01:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*112*		*35 - 197*	*11/05/18 16:24*	*11/11/18 01:58*	*1*

Client Sample ID: 8102915 - 03

Date Collected: 10/29/18 09:49
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-12

Matrix: Solid
Percent Solids: 28.0

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.29	J q B	3.6	0.075	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
2,3,7,8-TCDF	2.5	J B	3.6	0.064	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,7,8-PeCDD	1.0	J	18	0.15	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,7,8-PeCDF	1.3	J B	18	0.082	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
2,3,4,7,8-PeCDF	1.1	J B	18	0.089	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,4,7,8-HxCDD	2.4	J B	18	0.21	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,6,7,8-HxCDD	3.6	J	18	0.20	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,7,8,9-HxCDD	5.1	J B	18	0.19	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,4,7,8-HxCDF	2.3	J q B	18	0.17	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,6,7,8-HxCDF	1.2	J q	18	0.17	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,7,8,9-HxCDF	1.7	J q B	18	0.10	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
2,3,4,6,7,8-HxCDF	1.3	J	18	0.13	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,4,6,7,8-HpCDD	130	B	18	1.4	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1

Client Sample ID: 8102915 - 03

Date Collected: 10/29/18 09:49
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-12

Matrix: Solid
Percent Solids: 28.0

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	7.9	J B	18	0.074	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
1,2,3,4,7,8,9-HpCDF	2.2	J B	18	0.083	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
OCDD	11000	B	36	5.5	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1
OCDF	17	J B	36	0.056	pg/g	☼	11/05/18 16:24	11/11/18 06:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*89*		*25 - 164*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-2,3,7,8-TCDF	*87*		*24 - 169*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*25 - 181*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*24 - 185*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-2,3,4,7,8-PeCDF	*83*		*21 - 178*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,4,7,8-HxCDD	*89*		*32 - 141*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*28 - 130*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*26 - 152*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,6,7,8-HxCDF	*85*		*26 - 123*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-2,3,4,6,7,8-HxCDF	*85*		*28 - 136*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,7,8,9-HxCDF	*96*		*29 - 147*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*112*		*23 - 140*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*105*		*28 - 143*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*114*		*26 - 138*	*11/05/18 16:24*	*11/11/18 06:19*	*1*
13C-OCDD	*119*		*17 - 157*	*11/05/18 16:24*	*11/11/18 06:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*116*		*35 - 197*	*11/05/18 16:24*	*11/11/18 06:19*	*1*

Client Sample ID: 8102915 - 04

Date Collected: 10/29/18 10:01
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-13

Matrix: Solid
Percent Solids: 15.1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	3.4	J B	6.3	0.20	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,7,8-PeCDD	4.2	J	32	0.47	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,7,8-PeCDF	3.8	J B	32	0.23	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
2,3,4,7,8-PeCDF	3.2	J B	32	0.26	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,4,7,8-HxCDD	5.2	J B	32	0.49	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,6,7,8-HxCDD	7.7	J	32	0.46	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,7,8,9-HxCDD	13	J B	32	0.45	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,4,7,8-HxCDF	7.2	J B	32	0.44	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,6,7,8-HxCDF	3.8	J	32	0.45	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,7,8,9-HxCDF	6.0	J B	32	0.26	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
2,3,4,6,7,8-HxCDF	3.5	J	32	0.34	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,4,6,7,8-HpCDD	270	B	32	2.7	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,4,6,7,8-HpCDF	19	J B	32	0.17	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
1,2,3,4,7,8,9-HpCDF	6.3	J B	32	0.18	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
OCDD	15000	B	63	6.7	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1
OCDF	32	J B	63	0.082	pg/g	☼	11/05/18 16:24	11/11/18 07:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*25 - 164*	*11/05/18 16:24*	*11/11/18 07:05*	*1*
13C-1,2,3,7,8-PeCDD	*76*		*25 - 181*	*11/05/18 16:24*	*11/11/18 07:05*	*1*

Client Sample ID: 8102915 - 04

Date Collected: 10/29/18 10:01
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-13

Matrix: Solid
Percent Solids: 15.1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8-PeCDF	76		24 - 185	11/05/18 16:24	11/11/18 07:05	1
13C-2,3,4,7,8-PeCDF	73		21 - 178	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,4,7,8-HxCDD	76		32 - 141	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,6,7,8-HxCDD	79		28 - 130	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,4,7,8-HxCDF	75		26 - 152	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,6,7,8-HxCDF	74		26 - 123	11/05/18 16:24	11/11/18 07:05	1
13C-2,3,4,6,7,8-HxCDF	75		28 - 136	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,7,8,9-HxCDF	86		29 - 147	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,4,6,7,8-HpCDD	99		23 - 140	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,4,6,7,8-HpCDF	94		28 - 143	11/05/18 16:24	11/11/18 07:05	1
13C-1,2,3,4,7,8,9-HpCDF	102		26 - 138	11/05/18 16:24	11/11/18 07:05	1
13C-OCDD	105		17 - 157	11/05/18 16:24	11/11/18 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	114		35 - 197	11/05/18 16:24	11/11/18 07:05	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	15	B	6.3	2.1	pg/g	☼	11/05/18 16:24	11/15/18 18:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	75		24 - 169	11/05/18 16:24	11/15/18 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	80		35 - 197	11/05/18 16:24	11/15/18 18:02	1

Client Sample ID: 8102915 - 05

Date Collected: 10/29/18 10:12
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-14

Matrix: Solid
Percent Solids: 29.2

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.8	J B	3.5	0.12	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,7,8-PeCDD	1.4	J	18	0.28	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,7,8-PeCDF	1.8	J B	18	0.13	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
2,3,4,7,8-PeCDF	1.6	J B	18	0.14	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,4,7,8-HxCDD	3.0	J B	18	0.42	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,6,7,8-HxCDD	4.5	J	18	0.39	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,7,8,9-HxCDD	7.3	J B	18	0.38	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,4,7,8-HxCDF	3.3	J B	18	0.38	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,6,7,8-HxCDF	1.9	J	18	0.39	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,7,8,9-HxCDF	2.2	J B	18	0.22	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
2,3,4,6,7,8-HxCDF	1.8	J	18	0.29	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,4,6,7,8-HpCDD	190	B	18	1.9	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,4,6,7,8-HpCDF	12	J B	18	0.13	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
1,2,3,4,7,8,9-HpCDF	2.5	J B	18	0.14	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
OCDD	7700	B	35	3.2	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1
OCDF	33	J B	35	0.080	pg/g	☼	11/05/18 16:24	11/11/18 07:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	83		25 - 164	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,7,8-PeCDD	74		25 - 181	11/05/18 16:24	11/11/18 07:51	1

Client Sample ID: 8102915 - 05

Date Collected: 10/29/18 10:12
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-14

Matrix: Solid
Percent Solids: 29.2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8-PeCDF	75		24 - 185	11/05/18 16:24	11/11/18 07:51	1
13C-2,3,4,7,8-PeCDF	74		21 - 178	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,4,7,8-HxCDD	78		32 - 141	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,6,7,8-HxCDD	84		28 - 130	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,4,7,8-HxCDF	77		26 - 152	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,6,7,8-HxCDF	77		26 - 123	11/05/18 16:24	11/11/18 07:51	1
13C-2,3,4,6,7,8-HxCDF	77		28 - 136	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,7,8,9-HxCDF	87		29 - 147	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,4,6,7,8-HpCDD	101		23 - 140	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,4,6,7,8-HpCDF	95		28 - 143	11/05/18 16:24	11/11/18 07:51	1
13C-1,2,3,4,7,8,9-HpCDF	102		26 - 138	11/05/18 16:24	11/11/18 07:51	1
13C-OCDD	103		17 - 157	11/05/18 16:24	11/11/18 07:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	112		35 - 197	11/05/18 16:24	11/11/18 07:51	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	5.6	B	3.5	0.29	pg/g	☼	11/05/18 16:24	11/15/18 18:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	77		24 - 169	11/05/18 16:24	11/15/18 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	81		35 - 197	11/05/18 16:24	11/15/18 18:40	1

Client Sample ID: 8102915 - 06

Date Collected: 10/29/18 10:50
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-15

Matrix: Solid
Percent Solids: 82.7

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.77	J B	1.2	0.044	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
2,3,7,8-TCDF	1.1	J B	1.2	0.031	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,7,8-PeCDD	0.38	J	5.9	0.045	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,7,8-PeCDF	0.20	J B	5.9	0.063	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
2,3,4,7,8-PeCDF	0.13	J B	5.9	0.067	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,4,7,8-HxCDD	0.25	J B	5.9	0.056	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,6,7,8-HxCDD	0.46	J q	5.9	0.052	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,7,8,9-HxCDD	0.42	J B	5.9	0.050	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,4,7,8-HxCDF	0.18	J B	5.9	0.078	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,6,7,8-HxCDF	0.078	U	5.9	0.078	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,7,8,9-HxCDF	0.75	J B	5.9	0.046	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
2,3,4,6,7,8-HxCDF	0.060	U	5.9	0.060	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,4,6,7,8-HpCDD	4.4	J B	5.9	0.060	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,4,6,7,8-HpCDF	0.45	J q B	5.9	0.023	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
1,2,3,4,7,8,9-HpCDF	0.47	J B	5.9	0.025	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
OCDD	54	B	12	0.058	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1
OCDF	0.91	J B	12	0.036	pg/g	☼	11/05/18 16:24	11/11/18 08:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	82		25 - 164	11/05/18 16:24	11/11/18 08:37	1

Client Sample ID: 8102915 - 06

Date Collected: 10/29/18 10:50
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-15

Matrix: Solid
Percent Solids: 82.7

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	78		24 - 169	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,7,8-PeCDD	75		25 - 181	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,7,8-PeCDF	75		24 - 185	11/05/18 16:24	11/11/18 08:37	1
13C-2,3,4,7,8-PeCDF	75		21 - 178	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,4,7,8-HxCDD	77		32 - 141	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,6,7,8-HxCDD	83		28 - 130	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,4,7,8-HxCDF	74		26 - 152	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,6,7,8-HxCDF	77		26 - 123	11/05/18 16:24	11/11/18 08:37	1
13C-2,3,4,6,7,8-HxCDF	76		28 - 136	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,7,8,9-HxCDF	86		29 - 147	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,4,6,7,8-HpCDD	97		23 - 140	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,4,6,7,8-HpCDF	93		28 - 143	11/05/18 16:24	11/11/18 08:37	1
13C-1,2,3,4,7,8,9-HpCDF	100		26 - 138	11/05/18 16:24	11/11/18 08:37	1
13C-OCDD	90		17 - 157	11/05/18 16:24	11/11/18 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	113		35 - 197	11/05/18 16:24	11/11/18 08:37	1

Client Sample ID: 8102915 - 07

Date Collected: 10/29/18 11:00
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-16

Matrix: Solid
Percent Solids: 53.3

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.64	J q B	1.9	0.077	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,7,8-PeCDD	1.0	J	9.4	0.20	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,7,8-PeCDF	2.9	J B	9.4	0.19	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
2,3,4,7,8-PeCDF	3.2	J B	9.4	0.21	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,4,7,8-HxCDD	1.4	J B	9.4	0.15	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,6,7,8-HxCDD	2.4	J	9.4	0.14	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,7,8,9-HxCDD	3.0	J B	9.4	0.13	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,4,7,8-HxCDF	4.9	J B	9.4	0.36	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,6,7,8-HxCDF	2.1	J	9.4	0.36	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,7,8,9-HxCDF	0.92	J B	9.4	0.21	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
2,3,4,6,7,8-HxCDF	2.0	J	9.4	0.28	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,4,6,7,8-HpCDD	55	B	9.4	0.48	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,4,6,7,8-HpCDF	12	B	9.4	0.17	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
1,2,3,4,7,8,9-HpCDF	1.6	J B	9.4	0.18	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
OCDD	2700	B	19	1.3	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1
OCDF	28	B	19	0.055	pg/g	☼	11/05/18 16:24	11/11/18 09:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	83		25 - 164	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,7,8-PeCDD	80		25 - 181	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,7,8-PeCDF	80		24 - 185	11/05/18 16:24	11/11/18 09:23	1
13C-2,3,4,7,8-PeCDF	81		21 - 178	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,4,7,8-HxCDD	81		32 - 141	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,6,7,8-HxCDD	83		28 - 130	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,4,7,8-HxCDF	79		26 - 152	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,6,7,8-HxCDF	77		26 - 123	11/05/18 16:24	11/11/18 09:23	1
13C-2,3,4,6,7,8-HxCDF	80		28 - 136	11/05/18 16:24	11/11/18 09:23	1

Client Sample ID: 8102915 - 07
Date Collected: 10/29/18 11:00
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-16
Matrix: Solid
Percent Solids: 53.3

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8,9-HxCDF	89		29 - 147	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,4,6,7,8-HpCDD	98		23 - 140	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,4,6,7,8-HpCDF	95		28 - 143	11/05/18 16:24	11/11/18 09:23	1
13C-1,2,3,4,7,8,9-HpCDF	102		26 - 138	11/05/18 16:24	11/11/18 09:23	1
13C-OCDD	99		17 - 157	11/05/18 16:24	11/11/18 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	115		35 - 197	11/05/18 16:24	11/11/18 09:23	1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	5.2	B	1.9	0.45	pg/g	☼	11/05/18 16:24	11/15/18 19:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	77		24 - 169	11/05/18 16:24	11/15/18 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	82		35 - 197	11/05/18 16:24	11/15/18 19:18	1

Isotope Dilution Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
680-160015-10	8102915 - 01	87	82	79	80	78	81	86	78
680-160015-11	8102915 - 02	82	79	77	77	77	81	81	79
680-160015-12	8102915 - 03	89	87	85	84	83	89	90	86
680-160015-13	8102915 - 04	81		76	76	73	76	79	75
680-160015-13 - RA	8102915 - 04		75						
680-160015-14	8102915 - 05	83		74	75	74	78	84	77
680-160015-14 - RA	8102915 - 05		77						
680-160015-15	8102915 - 06	82	78	75	75	75	77	83	74
680-160015-16	8102915 - 07	83		80	80	81	81	83	79
680-160015-16 - RA	8102915 - 07		77						
MB 320-257103/1-A	Method Blank	71	67	65	65	63	68	70	65

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	HxDF (26-123)	13CHxCF (28-136)	HxCF (29-147)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)
680-160015-10	8102915 - 01	79	79	89	106	97	105	103
680-160015-11	8102915 - 02	76	76	85	103	97	105	106
680-160015-12	8102915 - 03	85	85	96	112	105	114	119
680-160015-13	8102915 - 04	74	75	86	99	94	102	105
680-160015-13 - RA	8102915 - 04							
680-160015-14	8102915 - 05	77	77	87	101	95	102	103
680-160015-14 - RA	8102915 - 05							
680-160015-15	8102915 - 06	77	76	86	97	93	100	90
680-160015-16	8102915 - 07	77	80	89	98	95	102	99
680-160015-16 - RA	8102915 - 07							
MB 320-257103/1-A	Method Blank	66	67	74	85	80	85	79

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Isotope Dilution Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF (21-192)	PeCF (13-328)	HxCDD (21-193)	HxDD (25-163)	HxCDF (19-202)
LCS 320-257103/2-A	Lab Control Sample	87	83	82	80	81	86	85	82
LCSD 320-257103/3-A	Lab Control Sample Dup	81	79	80	79	80	82	81	77

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxDF (21-159)	13CHxCF (22-176)	HxCF (17-205)	HpCDD (26-166)	HpCDF (21-158)	HpCDF2 (20-186)	OCDD (13-199)	
LCS 320-257103/2-A	Lab Control Sample	80	83	92	105	100	108	92	
LCSD 320-257103/3-A	Lab Control Sample Dup	77	77	87	99	95	101	94	

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-257103/1-A
Matrix: Solid
Analysis Batch: 258619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257103

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.110	J q	1.0	0.017	pg/g		11/05/18 16:24	11/10/18 19:50	1
2,3,7,8-TCDF	0.125	J	1.0	0.0083	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,7,8-PeCDD	0.017	U	5.0	0.017	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,7,8-PeCDF	0.110	J	5.0	0.016	pg/g		11/05/18 16:24	11/10/18 19:50	1
2,3,4,7,8-PeCDF	0.0423	J q	5.0	0.017	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,4,7,8-HxCDD	0.107	J q	5.0	0.023	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,6,7,8-HxCDD	0.022	U	5.0	0.022	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,7,8,9-HxCDD	0.0465	J	5.0	0.021	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,4,7,8-HxCDF	0.0987	J	5.0	0.029	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,6,7,8-HxCDF	0.029	U	5.0	0.029	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,7,8,9-HxCDF	0.440	J	5.0	0.018	pg/g		11/05/18 16:24	11/10/18 19:50	1
2,3,4,6,7,8-HxCDF	0.023	U	5.0	0.023	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,4,6,7,8-HpCDD	0.141	J	5.0	0.014	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,4,6,7,8-HpCDF	0.177	J	5.0	0.015	pg/g		11/05/18 16:24	11/10/18 19:50	1
1,2,3,4,7,8,9-HpCDF	0.325	J	5.0	0.016	pg/g		11/05/18 16:24	11/10/18 19:50	1
OCDD	1.13	J	10	0.022	pg/g		11/05/18 16:24	11/10/18 19:50	1
OCDF	0.293	J	10	0.019	pg/g		11/05/18 16:24	11/10/18 19:50	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*71*		*25 - 164*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-2,3,7,8-TCDF	*67*		*24 - 169*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,7,8-PeCDD	*65*		*25 - 181*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,7,8-PeCDF	*65*		*24 - 185*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-2,3,4,7,8-PeCDF	*63*		*21 - 178*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,4,7,8-HxCDD	*68*		*32 - 141*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,6,7,8-HxCDD	*70*		*28 - 130*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,4,7,8-HxCDF	*65*		*26 - 152*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,6,7,8-HxCDF	*66*		*26 - 123*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-2,3,4,6,7,8-HxCDF	*67*		*28 - 136*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,7,8,9-HxCDF	*74*		*29 - 147*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*23 - 140*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*28 - 143*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*85*		*26 - 138*	*11/05/18 16:24*	*11/10/18 19:50*	*1*
13C-OCDD	*79*		*17 - 157*	*11/05/18 16:24*	*11/10/18 19:50*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*116*		*35 - 197*	*11/05/18 16:24*	*11/10/18 19:50*	*1*

Lab Sample ID: LCS 320-257103/2-A
Matrix: Solid
Analysis Batch: 258619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	20.7		pg/g		103	67 - 158
2,3,7,8-TCDF	20.0	20.9		pg/g		104	75 - 158
1,2,3,7,8-PeCDD	100	106		pg/g		106	70 - 142
1,2,3,7,8-PeCDF	100	106		pg/g		106	80 - 134
2,3,4,7,8-PeCDF	100	105		pg/g		105	68 - 160

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-257103/2-A
Matrix: Solid
Analysis Batch: 258619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257103

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,4,7,8-HxCDD			100	101		pg/g		101	70 - 164		
1,2,3,6,7,8-HxCDD			100	106		pg/g		106	76 - 134		
1,2,3,7,8,9-HxCDD			100	107		pg/g		107	64 - 162		
1,2,3,4,7,8-HxCDF			100	101		pg/g		101	72 - 134		
1,2,3,6,7,8-HxCDF			100	101		pg/g		101	84 - 130		
1,2,3,7,8,9-HxCDF			100	105		pg/g		105	78 - 130		
2,3,4,6,7,8-HxCDF			100	101		pg/g		101	70 - 156		
1,2,3,4,6,7,8-HpCDD			100	106		pg/g		106	70 - 140		
1,2,3,4,6,7,8-HpCDF			100	103		pg/g		103	82 - 122		
1,2,3,4,7,8,9-HpCDF			100	102		pg/g		102	78 - 138		
OCDD			200	215		pg/g		108	78 - 144		
OCDF			200	226		pg/g		113	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*87*		*20 - 175*
13C-2,3,7,8-TCDF	*83*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*82*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*80*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*81*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*86*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*85*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*82*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*80*		*21 - 159*
13C-2,3,4,6,7,8-HxCDF	*83*		*22 - 176*
13C-1,2,3,7,8,9-HxCDF	*92*		*17 - 205*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*100*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*108*		*20 - 186*
13C-OCDD	*92*		*13 - 199*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*116*		*31 - 191*

Lab Sample ID: LCSD 320-257103/3-A
Matrix: Solid
Analysis Batch: 258619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257103

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			20.0	20.3		pg/g		102	67 - 158	2	50
2,3,7,8-TCDF			20.0	20.6		pg/g		103	75 - 158	1	50
1,2,3,7,8-PeCDD			100	107		pg/g		107	70 - 142	0	50
1,2,3,7,8-PeCDF			100	106		pg/g		106	80 - 134	0	50
2,3,4,7,8-PeCDF			100	104		pg/g		104	68 - 160	1	50
1,2,3,4,7,8-HxCDD			100	99.4		pg/g		99	70 - 164	2	50
1,2,3,6,7,8-HxCDD			100	105		pg/g		105	76 - 134	0	50
1,2,3,7,8,9-HxCDD			100	106		pg/g		106	64 - 162	1	50
1,2,3,4,7,8-HxCDF			100	101		pg/g		101	72 - 134	1	50
1,2,3,6,7,8-HxCDF			100	101		pg/g		101	84 - 130	0	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-257103/3-A
Matrix: Solid
Analysis Batch: 258619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 257103

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,7,8,9-HxCDF			100	105		pg/g		105	78 - 130	0	50
2,3,4,6,7,8-HxCDF			100	101		pg/g		101	70 - 156	1	50
1,2,3,4,6,7,8-HpCDD			100	106		pg/g		106	70 - 140	0	50
1,2,3,4,6,7,8-HpCDF			100	103		pg/g		103	82 - 122	0	50
1,2,3,4,7,8,9-HpCDF			100	102		pg/g		102	78 - 138	0	50
OCDD			200	211		pg/g		106	78 - 144	2	50
OCDF			200	217		pg/g		108	63 - 170	4	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*81*		*20 - 175*
13C-2,3,7,8-TCDF	*79*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*80*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*79*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*80*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*82*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*81*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*77*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*77*		*21 - 159*
13C-2,3,4,6,7,8-HxCDF	*77*		*22 - 176*
13C-1,2,3,7,8,9-HxCDF	*87*		*17 - 205*
13C-1,2,3,4,6,7,8-HpCDD	*99*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*101*		*20 - 186*
13C-OCDD	*94*		*13 - 199*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*111*		*31 - 191*

QC Association Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Specialty Organics

Prep Batch: 257103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-10	8102915 - 01	Total/NA	Solid	HRMS-Sox	
680-160015-11	8102915 - 02	Total/NA	Solid	HRMS-Sox	
680-160015-12	8102915 - 03	Total/NA	Solid	HRMS-Sox	
680-160015-13	8102915 - 04	Total/NA	Solid	HRMS-Sox	
680-160015-13 - RA	8102915 - 04	Total/NA	Solid	HRMS-Sox	
680-160015-14	8102915 - 05	Total/NA	Solid	HRMS-Sox	
680-160015-14 - RA	8102915 - 05	Total/NA	Solid	HRMS-Sox	
680-160015-15	8102915 - 06	Total/NA	Solid	HRMS-Sox	
680-160015-16	8102915 - 07	Total/NA	Solid	HRMS-Sox	
680-160015-16 - RA	8102915 - 07	Total/NA	Solid	HRMS-Sox	
MB 320-257103/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	
LCS 320-257103/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
LCSD 320-257103/3-A	Lab Control Sample Dup	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 258619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-10	8102915 - 01	Total/NA	Solid	1613B	257103
680-160015-11	8102915 - 02	Total/NA	Solid	1613B	257103
MB 320-257103/1-A	Method Blank	Total/NA	Solid	1613B	257103
LCS 320-257103/2-A	Lab Control Sample	Total/NA	Solid	1613B	257103
LCSD 320-257103/3-A	Lab Control Sample Dup	Total/NA	Solid	1613B	257103

Analysis Batch: 258621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-12	8102915 - 03	Total/NA	Solid	1613B	257103
680-160015-13	8102915 - 04	Total/NA	Solid	1613B	257103
680-160015-14	8102915 - 05	Total/NA	Solid	1613B	257103
680-160015-15	8102915 - 06	Total/NA	Solid	1613B	257103
680-160015-16	8102915 - 07	Total/NA	Solid	1613B	257103

Analysis Batch: 259411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-160015-13 - RA	8102915 - 04	Total/NA	Solid	1613B	257103
680-160015-14 - RA	8102915 - 05	Total/NA	Solid	1613B	257103
680-160015-16 - RA	8102915 - 07	Total/NA	Solid	1613B	257103

Client Sample ID: 8102915 - 01

Date Collected: 10/29/18 09:06
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-10

Matrix: Solid
Percent Solids: 19.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.02 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258619	11/11/18 01:12	AS	TAL SAC
	Instrument ID: 10D5									

Client Sample ID: 8102915 - 02

Date Collected: 10/29/18 09:25
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-11

Matrix: Solid
Percent Solids: 26.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.13 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258619	11/11/18 01:58	AS	TAL SAC
	Instrument ID: 10D5									

Client Sample ID: 8102915 - 03

Date Collected: 10/29/18 09:49
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-12

Matrix: Solid
Percent Solids: 28.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			9.98 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258621	11/11/18 06:19	AS	TAL SAC
	Instrument ID: 10D5									

Client Sample ID: 8102915 - 04

Date Collected: 10/29/18 10:01
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-13

Matrix: Solid
Percent Solids: 15.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.43 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258621	11/11/18 07:05	AS	TAL SAC
	Instrument ID: 10D5									
Total/NA	Prep	HRMS-Sox	RA		10.43 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B	RA	1			259411	11/15/18 18:02	ALM	TAL SAC
	Instrument ID: 11D2									

Client Sample ID: 8102915 - 05

Date Collected: 10/29/18 10:12
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-14

Matrix: Solid
Percent Solids: 29.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			9.78 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258621	11/11/18 07:51	AS	TAL SAC
	Instrument ID: 10D5									
Total/NA	Prep	HRMS-Sox	RA		9.78 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC

Lab Chronicle

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Client Sample ID: 8102915 - 05

Date Collected: 10/29/18 10:12
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-14

Matrix: Solid
Percent Solids: 29.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1613B	RA	1			259411	11/15/18 18:40	ALM	TAL SAC
	Instrument ID: 11D2									

Client Sample ID: 8102915 - 06

Date Collected: 10/29/18 10:50
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-15

Matrix: Solid
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.21 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258621	11/11/18 08:37	AS	TAL SAC
	Instrument ID: 10D5									

Client Sample ID: 8102915 - 07

Date Collected: 10/29/18 11:00
Date Received: 10/31/18 09:24

Lab Sample ID: 680-160015-16

Matrix: Solid
Percent Solids: 53.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			9.97 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B		1			258621	11/11/18 09:23	AS	TAL SAC
	Instrument ID: 10D5									
Total/NA	Prep	HRMS-Sox	RA		9.97 g	20 uL	257103	11/05/18 16:24	SR1	TAL SAC
Total/NA	Analysis	1613B	RA	1			259411	11/15/18 19:18	ALM	TAL SAC
	Instrument ID: 11D2									

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Chain of Custody Record

TestAmerica

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Regulatory Program: ☐DW ☒NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: MD VERACCI	Site Contact:	Date: 10/29/18	COC No:
Long Island Analytical Labs	Tel/Fax: 631-472-8400	Lab Contact:	Carrier: FED EX	of COCs
110 Colin Drive	Analysis Turnaround Time			Sampler:
Holbrook, NY 11741	☒CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
631-472-3400 Phone	TAT if different from Below			Walk-in Client:
631-472-8505 FAX	☐ 2 weeks			Lab Sampling:
Project Name: PFCs	☐ 1 week			
Site: IHCC	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	1,4-Dioxane	Sample Specific Notes
810293-01	10-24-18	0901	G	WW	1			X	
02		0915	G		1			X	
03		0940	G		1			X	
04		0955	G		1			X	
05		1008	G		1			X	
06		1048	G		1			X	
07		1058	G		1			X	
08		1010	G		1			X	

680-160015 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company	Date/Time:
Ben Lamberson	CIAL	10/29/18 1445			
Relinquished by:	Company:	Date/Time:	Received by:	Company	Date/Time:
Relinquished by:	Company	Date/Time:	Received in Laboratory by:	Company	Date/Time: 10.31.18 0924

2.0/2.2

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404-6019
phone 912.354.7858 fax 912.352.0165

Chain of Custody Record

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☒Other: SOIL

Client Contact	Project Manager: M. DVORACDI	Site Contact:	Date:	COC No:
Long Island Analytical Labs	Tel/Fax:	Lab Contact:	Carrier:	____ of ____ COCs
110 Colin Drive	Analysis Turnaround Time			Sampler:
Holbrook, NY 11741	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
631-472-3400 Phone	TAT if different from Below ____			Walk-in Client:
631-472-8505 FAX	☐ 2 weeks			Lab Sampling:
Project Name: PFCs	☐ 1 week			
Site: THCC	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	DIOXIN	Sample Specific Notes
8102915-01	10-29-18	0906	G	S	1			X	
02		0925			1			X	
03		0949			1			X	
04		1001			1			X	
05		1012			1			X	
06		1050			1			X	
07		1100			1			X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ | Therm ID No.: ____

Relinquished by: Ben Lamberson	Company: GAL	Date/Time: 10/29/18 3?4	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 10.31.18 0924

2.0/2.2

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-541785.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sheila.hoffman@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 680-160015-2
Address: 880 Riverside Parkway, ,	Due Date Requested: 11/16/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: IHCC / 8102915	Project #: 68018169			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/HRMS_Sox_P Full List w/o Totals	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
8102915 - 01 (680-160015-10)	10/29/18	09:06 Eastern		Solid			X	X	1	
8102915 - 02 (680-160015-11)	10/29/18	09:25 Eastern		Solid			X	X	1	
8102915 - 03 (680-160015-12)	10/29/18	09:49 Eastern		Solid			X	X	1	
8102915 - 04 (680-160015-13)	10/29/18	10:01 Eastern		Solid			X	X	1	
8102915 - 05 (680-160015-14)	10/29/18	10:12 Eastern		Solid			X	X	1	
8102915 - 06 (680-160015-15)	10/29/18	10:50 Eastern		Solid			X	X	1	
8102915 - 07 (680-160015-16)	10/29/18	11:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11-1-18 1005	TA	[signature]	11-2-18 920	TA-Sac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.: 485503	Cooler Temperature(s) °C and Other Remarks: 4.5

Ver: 09/20/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Sample Receiving Notes

Job: 680-160015 Field Sheet

Tracking # 4191 1335 2730 SO / PO / FO / 2-Day / SAT / Ground / UPS / Courier /

Drop Off / GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC.

Notes: _____

Therm. ID: AK-2 / AK-3 / AK-5 / AK-6 / HACCP / Other _____
(+0.7°C)

Ice — Wet — Gel _____ Other _____

Cooler Custody Seal: 485503

Sample Custody Seal: —

Cooler ID: —

Temp: Observed 4.3 Corrected 4.5

From: Temp Blank ☐ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
CoC is complete w/o discrepancies?	☑	☐	☐
Samples received within holding time?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Cooler compromised/tampered with?	☐	☑	☐
Samples compromised/tampered with?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Sample containers have legible labels?	☑	☐	☐
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided.	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐
Sample temp OK?	☑	☐	☐
Sample out of temp?	☐	☑	☐

Initials: MG Date: 11-2-18

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W22B

Login Sample Receipt Checklist

Client: Long Island Analytical Laboratories Inc

Job Number: 680-160015-2

Login Number: 160015

List Source: TestAmerica Savannah

List Number: 1

Creator: Laughlin, Paul D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Long Island Analytical Laboratories Inc

Job Number: 680-160015-2

Login Number: 160015
List Number: 3
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento
List Creation: 11/05/18 12:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	485503
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-19

Laboratory: TestAmerica Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11666	03-31-19

Accreditation/Certification Summary

Client: Long Island Analytical Laboratories Inc
Project/Site: IHCC / 8102915

TestAmerica Job ID: 680-160015-2

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-19

Laboratory: TestAmerica Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11666	03-31-19