June 29, 2020

Mr. James Haklar, Ph.D.
USEPA Region 2
Clean Air and Sustainability Division
290 Broadway
New York, NY 10007-1866

RE: Concrete Chip Sampling Report of Findings
700 Smith Boulevard at the Port of Albany, New York
NYSDEC Spill No.: 401080(P)
CHA Project No.: 28592

Dear Mr. Haklar:

On behalf of the Albany Port District Commission, CHA Consulting, Inc. (CHA) is pleased to provide this Concrete Chip Sampling Report (Report) for your information. This report provides a description of the characterization of select concrete floor slabs in the two buildings at the subject site (Office Building and Garage). The work described herein was performed in accordance with the Concrete Chip Sampling Work Plan prepared by CHA dated and approved by EPA on April 30, 2020. The Work Plan was based on and employed the protocols contained in the EPA Standard Operating Procedure for Sampling Porous Surfaces for PCBs (EPA Office of Environmental Measurement and Evaluation, May 2011) and the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10).

Sampling Activities

On March 10, 2020 a pre-sampling inspection was completed in the site buildings to assess the current conditions of the floors and identify proposed sample locations. The findings of this inspection were summarized in the Work Plan and sample locations were shown on a proposed location map. Per the approved work plan the garage floor was to be sampled at multiple locations and the locker room of the office building was to have a single sample collected from the entry point to the room.

Sampling activities were completed by CHA on May 21, 2020. Mr. Kyle Forster with the NYSDEC was on site to observe sampling activities. CHA collected a total of six primary samples at the approximate locations shown in Figure 1. Final sample locations in the field were adjusted from that shown in the Work Plan in order to bias them to oil-stained areas of most concern. Five samples were collected from the garage floor and one sample was collected from the locker room floor in the office building. Additionally, QA/QC samples were collected – a field duplicate sample was collected from location CONC-04 and matrix spike and matrix spike duplicate (MS/MSD) samples were collected from location CONC-06.

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Samples were collected by first placing a section of plastic sheeting over the sample area. Concrete dust and chips were generated using carbide drill bits and a hammer-impact drill. Dedicated tools were used at each location. Sample material was placed in lab-supplied containers, labeled and placed in a cooler on ice. A Photo Log is provided in Attachment A and shows various sampling activities. Samples were then delivered to the laboratory under appropriate chain of custody. Samples were submitted for analysis for PCBs using EPA Method 8082A and for total solids.

Waste generated during the investigation, including the dedicated sampling tools used, were placed in a sealed plastic container and temporarily staged on-site for proper disposal at a future time, based on the sampling results.

Reporting

The laboratory report was provided as a NYSDEC Analytical Services Protocol (ASP), Category B Deliverable. A Data Usability Summary Report (DUSR) provided by a qualified third-party data reviewer is provided in Attachment B. The laboratory data report is provided in Attachment C.

Summary of Analytical Results

A summary of analytical results for total PCBs and individual Aroclors is provided in the attached Table 1. Low concentrations of PCBs were detected at all sample locations. Most of the garage floor exhibited concentrations below the cap requirement of less than or equal to 1ppm total PCB's. The locker room sample was below 1ppm total PCB's.

Two locations in the garage, CONC-02 (1.17 ppm) and CONC-04 (5.56 ppm) exhibited concentrations slightly exceeding 1 ppm. The duplicate sample collected from location CONC-04 exhibited a concentration of 5.5 ppm. As shown in the DUSR report (Attachment B), all data has been determined to be acceptable with minor issues that are identified and discussed in the validation summary. Table 1 indicates the data that was qualified by the reviewer. There are no data that are qualified as rejected (unusable) in the data pack.

Discussion and Conclusions

As described in the PCB Risk-Based Cleanup and Disposal Application (Application), development of the Site will require implementation of institutional controls consisting of a deed restriction (Deed Notice) containing an environmental easement. The cleanup level for high occupancy areas is ≤1 ppm without further conditions. An Engineering Control (EC) consisting of a protective cap is required for high occupancy use areas of the Site to protect occupants from exposure to soil exhibiting PCB concentrations >1.0 ppm and ≤ 25ppm which will remain at the Site following cleanup.

Remedial actions for this site will include beneficial use of reclaimed asphalt pavement (RAP), to be placed in a 12-inch protective layer (cap) over the entirety of the approximate 12.14 acre site with the exception of currently paved areas and existing building footprints. The Site will be designated as high-occupancy in the deed restriction filing.

Given the PCB concentrations in the concrete of the garage at >1.0 ppm as discussed above, the existing floor slab will be addressed in accordance with the high occupancy area cleanup levels in CFR 761.61 paragraphs (a)(4)(i) through (a)(4)(iv) in order to retain the high occupancy designation for the entire Site. Alternatively, the slab may be demolished during site remediation and removed from the Site. A separate remedial work plan, establishing a parallel remedial path for the garage floor slab, will be prepared and submitted to EPA/NYSDEC for approval prior to any remedial activities being undertaken.

Should you have any questions regarding this Report, please do not hesitate to contact Rich Totino at (518) 281-5436 or rtotino@chacompanies.com or myself.

Sincerely,

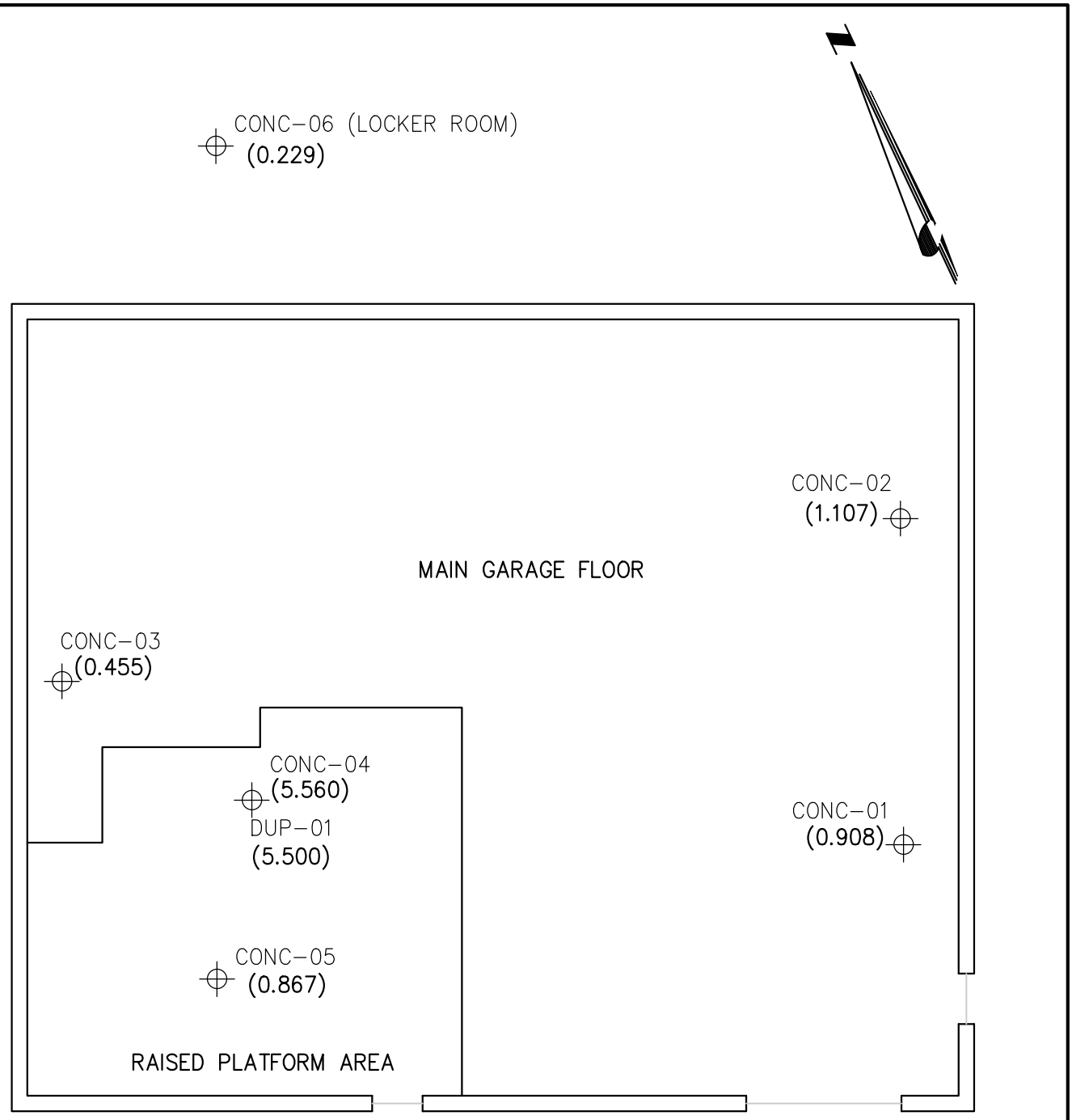
Seth H. Fowler, CHMM
Principal Scientist

RT/SF
V:\Projects\ANY\K3\28952\Reports\Concrete Chip Sampling March 2020\Report\Draft\Concrete Chip Sampling Report_Final_06-29-2020.doc

CC: Patrick Jordan – APDC
Rich Hendrick – APDC
John Privitera – McNamee, Lochner, Titus & Williams, P.C.
Kyle Forster, NYSDEC

ENCLOSURES Figure 1 - Concrete Chip Sample Location Plan
Table 1 – Summary of Analytical Results, PCBs
Attachment A – Sampling Photo Log
Attachment B – Data Usability Summary Report (DUSR), Alpha Geoscience
Attachment C – Laboratory Data Report

Figure 1



LEGEND

⊕ CONCRETE CHIP SAMPLE LOCATION

(0.908) TOTAL PCBs (MG/KG)

0 10 20

Scale in feet

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Albany, NY 12205-0269
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SAMPLE LOCATION PLAN
GARAGE BUILDING

700 SMITH BOULEVARD
ALBANY, NEW YORK

PROJECT NO. 28952

DATE: 06/2020

FIGURE 1

Table 1

Table 1
Albany Port District Commission
Summary of PCB Analyses - Concrete Chip Samples
May 21, 2020

	SAMPLE ID:	28952-CONC-01	28952-CONC-02	28952-CONC-03	28952-CONC-04/DUP-01	28952-CONC-05	28952-CONC-06
	Location:	Warehouse	Warehouse	Warehouse	Warehouse	Warehouse	Locker Room
POLYCHLORINATED BIPHENYLS (mg/kg)							
Aroclor 1016		ND	ND	ND	ND/ND	ND	ND
Aroclor 1221		ND	ND	ND	ND/ND	ND	ND
Aroclor 1232		ND	ND	ND	ND/ND	ND	ND
Aroclor 1242		0.421	0.409	0.318	1.8/1.6	0.683	0.0774
Aroclor 1248		ND	ND	ND	ND/ND	ND	ND
Aroclor 1254		0.321	0.548 J	0.137	2.48/2.63	0.184 J	0.0881
Aroclor 1260		0.116	0.211	ND	1.28/1.27	ND	0.0632 J
Aroclor 1262		ND	ND	ND	ND/ND	ND	ND
Aroclor 1268		ND	ND	ND	ND/ND	ND	ND
PCBs, Total		0.908	1.17J	0.455	5.56/5.5	0.876J	0.229J
GENERAL CHEMISTRY							
Solids, Total		97.9	97.9	98.3	97.9	99.2	98

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www.alphalab.com

Attachment A

Photograph 1: Preparation of Sample Collection Location

Photograph 2: Typical Sampling Location (CONC-04)

CHA

SITE PHOTOGRAPHS

Albany Port District Commission
700 Smith Boulevard, Albany, NY

Photograph 3: Concrete Powder Sample Material

SITE PHOTOGRAPHS

Albany Port District Commission
700 Smith Boulevard, Albany, NY

Attachment B

ALPHA
GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

June 8, 2020

Mr. Richard Totino
Project Manager
CHA
III Winners Circle
P.O. Box 5269
Albany, New York 12205

Re: Data Validation Report
Port of Albany
May 2020 Concrete Chip Sampling Event

Dear Mr. Totino:

The data usability summary report (DUSR) and data validation summary are attached to this letter for the Port of Albany project, May 2020 concrete chip sampling event. The data for Alpha Analytical Labs SDG number L2021078 are acceptable with minor issues that are identified and discussed in the validation summary. There are no data that are qualified as rejected, unusable (R) in the data pack.

A list of common data validation acronyms is attached to this letter to assist you in interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist CHA.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA:dca
attachments

Z:\PROJECTS\2018\18600-18620\18615-PORT OF ALBANY\2020\PORT OF ALBANY-201.LTR.DOCX

ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L2021078

6 Concrete Chip Samples and 1 Field Duplicate
Collected May 21, 2020

Prepared by: Donald Anné
June 8, 2020

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of PCB analyses for 6 concrete chip samples and 1 field duplicate.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- Positive PCB results for aroclor 1254 were qualified as estimated, biased high (J+) in samples 28952-CONC-02 and 28952-CONC-05 because the RPDs for dual quantitation of aroclor 1254 were above the allowable maximum, but not above 70% and the high results were reported in the samples.

- The positive PCB result for aroclor 1260 was qualified as estimated, biased high (J+) in sample 28952-CONC-06 because the RPD for dual quantitation of aroclor 1260 was above the allowable maximum, but not above 70% and the high result was reported in the sample.

All data are considered usable with estimated (J+) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

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ALPHA GEOSCIENCE

Geology
Hydrology
Remediation
Water Supply

QA/QC Review of 8082A PCB Data
for Alpha Analytical Labs
SDG Number: L2021078

6 Concrete Chip Samples and 1 Field Duplicate
Collected May 21, 2020

Prepared by: Donald Anné
June 8, 2020

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Blanks: The analysis of the method blank reported target aroclors as not detected.

Surrogate Recovery: The surrogate recoveries were within QC limits for concrete chip samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for aroclor 1016 and aroclor 1260 were below the allowable maximums and percent recoveries were within QC limits for concrete chip sample 28952-CONC-01.

Laboratory Control Sample: The relative percent differences for aroclor 1016 and aroclor 1260 were below the allowable maximums and percent recoveries were within QC limits for solid samples WG1373760-2 and WG1373760-3.

Field Duplicates: The relative percent differences for applicable aroclors were below the allowable maximum (35%) for concrete chip field duplicate pair 28952-CONC-04/28952-DUP-01 (attached table), as required.

Initial Calibration: The %RSDs were below the allowable maximum (20%) on both columns, as required.

Continuing Calibration: The average %Ds for aroclor 1016 and aroclor-1260 were below the allowable maximum (20%) for both columns, as required.

PCB Identification Summary: Checked surrogates and aroclor results were within quantitation limits. The RPD for dual column quantitation of aroclor 1260 in sample 28952-CONC-06 was above the allowable maximum (25%), but not above 70% and the higher result was reported. The positive result for aroclor 1260 should be considered estimated, biased high (J+) in sample 28952-CONC-06.

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www.alphageoscience.com

The RPDs for dual column quantitation of aroclor 1254 in samples 28952-CONC-02 and 28952-CONC-05 were above the allowable maximum (25%), but not above 70% and the higher results were reported. Positives results for aroclor 1254 should be considered estimated, biased high (J+) in samples 28952-CONC-02 and 28952-CONC-05.

PCBs

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L2021078

S1= 28952-CONC-04 **S2=** 28952-DUP-01

Analyte	S1	S2	RPD (%)
Aroclor 1260	1280	1270	1%
Aroclor 1254	2480	2630	6%
Aroclor 1242	1800	1600	12%
PCB, Total	5600	5500	2%

* RPD is above the allowable maximum 35%.

Results are in units of ug/kg.

Bold numbers were values that are below the CRQL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

Identification Summary
Form 10
PCBs

Client	: CHA Companies		Lab Number	: L2021078	
Project Name	: PORT OF ALBANY		Project Number	: 28953	
Lab Sample ID	: L2021078-02				
Client ID	: 28952-CONC-02				
Date Analyzed (1)	: 05/24/20 17:14		Date Analyzed (2)	: 05/24/20 17:14	
Instrument ID (1)	: PEST19		Instrument ID (2)	: PEST19	
GC Column (1)	: CLP-Pesticide		GC Column (2)	: CLP-PesticideII	

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	2.14	-0.05	0.05	310		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	2.46	-0.05	0.05	397.		
	4	2.61	-0.05	0.05	480		
	5	0.00	-0.05	0.05	0.	396.	
	1	0.00	-0.05	0.05	0.		
	2	2.59	-0.05	0.05	584.		
COLUMN 2	3	2.84	-0.05	0.05	580		
	4	2.95	-0.05	0.05	480		
	5	0.00	-0.05	0.05	0.	548.	32
AROCLOR 1260	1	0.00	2.50	2.60	0.		
	2	0.00	2.65	2.75	0.		
COLUMN 1	3	3.04	2.99	3.09	213.		
	4	3.22	3.16	3.26	200		
	5	3.37	3.32	3.42	205.	206.	
	1	0.00	2.89	2.99	0.		
	2	0.00	3.01	3.11	0.		
COLUMN 2	3	3.48	3.42	3.52	176.		
	4	3.62	3.57	3.67	267.		
	5	3.83	3.78	3.88	191.	211.	2
AROCLOR 1242	1	1.37	-0.05	0.05	100		
	2	1.51	-0.05	0.05	180		
COLUMN 1	3	1.71	-0.05	0.05	337.		
	4	1.96	-0.05	0.05	383.		
	5	2.16	-0.05	0.05	614.	323.	
	1	1.58	-0.05	0.05	196.		
	2	1.76	-0.05	0.05	257.		
COLUMN 2	3	1.98	-0.05	0.05	377.		
	4	2.27	-0.05	0.05	634.		
	5	2.47	-0.05	0.05	582.	409.	24

Identification Summary
Form 10
PCBs

Client	: CHA Companies		Lab Number	: L2021078	
Project Name	: PORT OF ALBANY		Project Number	: 28953	
Lab Sample ID	: L2021078-05				
Client ID	: 28952-CONC-05				
Date Analyzed (1)	: 05/24/20 12:01		Date Analyzed (2)	: 05/24/20 12:01	
Instrument ID (1)	: PEST21		Instrument ID (2)	: PEST21	
GC Column (1)	: CLP-Pesticide		GC Column (2)	: CLP-PesticideII	

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	4.22	-0.05	0.05	232.		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	4.72	-0.05	0.05	141.		
	4	5.06	-0.05	0.05	178.		
	5	0.00	-0.05	0.05	0.	184.	
	1	0.00	-0.05	0.05	0.		
	2	4.95	-0.05	0.05	172.		
COLUMN 2	3	5.30	-0.05	0.05	116.		
	4	5.46	-0.05	0.05	156.		
	5	5.84	-0.05	0.05	118.	140	27
AROCLOR 1242	1	2.89	-0.05	0.05	432.		
	2	3.14	-0.05	0.05	832.		
COLUMN 1	3	3.49	-0.05	0.05	709.		
	4	3.92	-0.05	0.05	934.		
	5	4.25	-0.05	0.05	434.	668.	
	1	3.28	-0.05	0.05	326.		
	2	3.60	-0.05	0.05	745.		
COLUMN 2	3	3.99	-0.05	0.05	677.		
	4	4.48	-0.05	0.05	1220		
	5	4.78	-0.05	0.05	445.	683.	2

Identification Summary
Form 10
PCBs

Client	: CHA Companies		Lab Number	: L2021078	
Project Name	: PORT OF ALBANY		Project Number	: 28953	
Lab Sample ID	: L2021078-07				
Client ID	: 28952-CONC-06				
Date Analyzed (1)	: 05/24/20 17:28		Date Analyzed (2)	: 05/24/20 17:28	
Instrument ID (1)	: PEST19		Instrument ID (2)	: PEST19	
GC Column (1)	: CLP-Pesticide		GC Column (2)	: CLP-PesticideII	

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	2.14	-0.05	0.05	48.4		
	2	2.27	-0.05	0.05	58.6		
COLUMN 1	3	2.46	-0.05	0.05	81.5		
	4	2.61	-0.05	0.05	102.		
	5	0.00	-0.05	0.05	0.	72.6J	
	1	0.00	-0.05	0.05	0.		
	2	2.59	-0.05	0.05	78.6		
COLUMN 2	3	2.84	-0.05	0.05	86.3		
	4	2.97	-0.05	0.05	99.4		
	5	0.00	-0.05	0.05	0.	88.1	19
AROCLOR 1260	1	0.00	2.50	2.60	0.		
	2	0.00	2.65	2.75	0.		
COLUMN 1	3	3.04	2.99	3.09	50.3		
	4	3.22	3.16	3.26	54.6		
	5	3.37	3.32	3.42	38.3	47.8J	
	1	0.00	2.89	2.99	0.		
	2	0.00	3.01	3.11	0.		
COLUMN 2	3	3.48	3.42	3.52	54.8		
	4	3.62	3.57	3.67	73.9		
	5	3.83	3.78	3.88	60.7	63.2J	28
AROCLOR 1242	1	1.37	-0.05	0.05	7.32		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	1.71	-0.05	0.05	31.		
	4	1.96	-0.05	0.05	82.2		
	5	2.16	-0.05	0.05	134.	63.7J	
	1	0.00	-0.05	0.05	0.		
	2	0.00	-0.05	0.05	0.		
COLUMN 2	3	1.98	-0.05	0.05	52.		
	4	2.28	-0.05	0.05	98.2		
	5	2.47	-0.05	0.05	82.1	77.4J	19

Attachment C

ANALYTICAL REPORT

Lab Number:	L2021078
Client:	CHA Companies 3 Winners Circle Albany, NY 12205
ATTN:	Richard Totino
Phone:	(518) 453-2893
Project Name:	PORT OF ALBANY
Project Number:	28953
Report Date:	05/29/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2021078-01	28952-CONC-01	SOLID	700 SMITH BLVD.	05/21/20 10:20	05/21/20
L2021078-02	28952-CONC-02	SOLID	700 SMITH BLVD.	05/21/20 10:40	05/21/20
L2021078-03	28952-CONC-03	SOLID	700 SMITH BLVD.	05/21/20 10:50	05/21/20
L2021078-04	28952-CONC-04	SOLID	700 SMITH BLVD.	05/21/20 11:05	05/21/20
L2021078-05	28952-CONC-05	SOLID	700 SMITH BLVD.	05/21/20 11:20	05/21/20
L2021078-06	28952-DUP-01	SOLID	700 SMITH BLVD.	05/21/20 00:00	05/21/20
L2021078-07	28952-CONC-06	SOLID	700 SMITH BLVD.	05/21/20 12:00	05/21/20

Project Name:	PORT OF ALBANY	**Lab Number:**	L2021078
Project Number:	28953	**Report Date:**	05/29/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PORT OF ALBANY	**Lab Number:**	L2021078
Project Number:	28953	**Report Date:**	05/29/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 05/29/20

ORGANICS

PCBS

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-01
Client ID: 28952-CONC-01
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 10:20
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 16:53
Analyst: KB
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	89.8	7.97	1	A
Aroclor 1221	ND		ug/kg	89.8	8.99	1	A
Aroclor 1232	ND		ug/kg	89.8	19.0	1	A
Aroclor 1242	421		ug/kg	89.8	12.1	1	B
Aroclor 1248	ND		ug/kg	89.8	13.5	1	A
Aroclor 1254	321		ug/kg	89.8	9.82	1	A
Aroclor 1260	166		ug/kg	89.8	16.6	1	A
Aroclor 1262	ND		ug/kg	89.8	11.4	1	A
Aroclor 1268	ND		ug/kg	89.8	9.30	1	A
PCBs, Total	908		ug/kg	89.8	7.97	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-02
Client ID: 28952-CONC-02
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 10:40
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 17:14
Analyst: KB
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	92.7	8.23	1	A
Aroclor 1221	ND		ug/kg	92.7	9.29	1	A
Aroclor 1232	ND		ug/kg	92.7	19.6	1	A
Aroclor 1242	409		ug/kg	92.7	12.5	1	B
Aroclor 1248	ND		ug/kg	92.7	13.9	1	A
Aroclor 1254	548		ug/kg	92.7	10.1	1	B
Aroclor 1260	211		ug/kg	92.7	17.1	1	B
Aroclor 1262	ND		ug/kg	92.7	11.8	1	A
Aroclor 1268	ND		ug/kg	92.7	9.60	1	A
PCBs, Total	1170		ug/kg	92.7	8.23	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-03
Client ID: 28952-CONC-03
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 10:50
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 11:49
Analyst: KB
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	97.2	8.64	1	A
Aroclor 1221	ND		ug/kg	97.2	9.74	1	A
Aroclor 1232	ND		ug/kg	97.2	20.6	1	A
Aroclor 1242	318		ug/kg	97.2	13.1	1	A
Aroclor 1248	ND		ug/kg	97.2	14.6	1	A
Aroclor 1254	137		ug/kg	97.2	10.6	1	A
Aroclor 1260	ND		ug/kg	97.2	18.0	1	A
Aroclor 1262	ND		ug/kg	97.2	12.4	1	A
Aroclor 1268	ND		ug/kg	97.2	10.1	1	A
PCBs, Total	455		ug/kg	97.2	8.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-04 D
Client ID: 28952-CONC-04
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 11:05
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 19:34
Analyst: KB
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	445	39.5	5	A
Aroclor 1221	ND		ug/kg	445	44.6	5	A
Aroclor 1232	ND		ug/kg	445	94.3	5	A
Aroclor 1242	1800		ug/kg	445	60.0	5	B
Aroclor 1248	ND		ug/kg	445	66.7	5	A
Aroclor 1254	2480		ug/kg	445	48.7	5	A
Aroclor 1260	1280		ug/kg	445	82.2	5	A
Aroclor 1262	ND		ug/kg	445	56.5	5	A
Aroclor 1268	ND		ug/kg	445	46.1	5	A
PCBs, Total	5560		ug/kg	445	39.5	5	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-05
Client ID: 28952-CONC-05
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 11:20
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 12:01
Analyst: KB
Percent Solids: 99%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	95.5	8.48	1	A
Aroclor 1221	ND		ug/kg	95.5	9.56	1	A
Aroclor 1232	ND		ug/kg	95.5	20.2	1	A
Aroclor 1242	683		ug/kg	95.5	12.9	1	B
Aroclor 1248	ND		ug/kg	95.5	14.3	1	A
Aroclor 1254	184		ug/kg	95.5	10.4	1	A
Aroclor 1260	ND		ug/kg	95.5	17.6	1	A
Aroclor 1262	ND		ug/kg	95.5	12.1	1	A
Aroclor 1268	ND		ug/kg	95.5	9.89	1	A
PCBs, Total	867		ug/kg	95.5	8.48	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-06 D
Client ID: 28952-DUP-01
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 00:00
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 18:42
Analyst: KB
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	455	40.4	5	A
Aroclor 1221	ND		ug/kg	455	45.6	5	A
Aroclor 1232	ND		ug/kg	455	96.5	5	A
Aroclor 1242	1600		ug/kg	455	61.4	5	A
Aroclor 1248	ND		ug/kg	455	68.3	5	A
Aroclor 1254	2630		ug/kg	455	49.8	5	A
Aroclor 1260	1270		ug/kg	455	84.1	5	A
Aroclor 1262	ND		ug/kg	455	57.8	5	A
Aroclor 1268	ND		ug/kg	455	47.2	5	A
PCBs, Total	5500		ug/kg	455	40.4	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953
Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-07
Client ID: 28952-CONC-06
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 12:00
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid
Analytical Method: 1,8082A
Analytical Date: 05/24/20 17:28
Analyst: KB
Percent Solids: 98%

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	86.8	7.70	1	A
Aroclor 1221	ND		ug/kg	86.8	8.69	1	A
Aroclor 1232	ND		ug/kg	86.8	18.4	1	A
Aroclor 1242	77.4	J	ug/kg	86.8	11.7	1	B
Aroclor 1248	ND		ug/kg	86.8	13.0	1	A
Aroclor 1254	88.1		ug/kg	86.8	9.49	1	B
Aroclor 1260	63.2	J	ug/kg	86.8	16.0	1	B
Aroclor 1262	ND		ug/kg	86.8	11.0	1	A
Aroclor 1268	ND		ug/kg	86.8	8.99	1	A
PCBs, Total	229	J	ug/kg	86.8	7.70	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/24/20 12:48
Analyst: JAW

Extraction Method: EPA 3540C
Extraction Date: 05/22/20 15:25
Cleanup Method: EPA 3665A
Cleanup Date: 05/24/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG1373760-1						
Aroclor 1016	ND		ug/kg	88.3	7.84	A
Aroclor 1221	ND		ug/kg	88.3	8.85	A
Aroclor 1232	ND		ug/kg	88.3	18.7	A
Aroclor 1242	ND		ug/kg	88.3	11.9	A
Aroclor 1248	ND		ug/kg	88.3	13.2	A
Aroclor 1254	ND		ug/kg	88.3	9.66	A
Aroclor 1260	ND		ug/kg	88.3	16.3	A
Aroclor 1262	ND		ug/kg	88.3	11.2	A
Aroclor 1268	ND		ug/kg	88.3	9.15	A
PCBs, Total	ND		ug/kg	88.3	7.84	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	58		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PORT OF ALBANY

Project Number: 28953

Lab Number: L2021078

Report Date: 05/29/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1373760-2 WG1373760-3									
Aroclor 1016	81		92		40-140	13		50	A
Aroclor 1260	68		79		40-140	15		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		87		30-150	A
Decachlorobiphenyl	52		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		86		30-150	B
Decachlorobiphenyl	53		60		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: PORT OF ALBANY

Project Number: 28953

Lab Number: L2021078

Report Date: 05/29/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1373760-4 WG1373760-5 QC Sample: L2021078-01 Client ID: 28952-CONC-01													
Aroclor 1016	ND	606	594	98		600	96		40-140	1		50	A
Aroclor 1260	166	606	545	63		518	56		40-140	5		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		54		30-150	A
Decachlorobiphenyl	52		45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		52		30-150	B
Decachlorobiphenyl	54		48		30-150	B

INORGANICS
&
MISCELLANEOUS

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-01
Client ID: 28952-CONC-01
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 10:20
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.9		%	0.100	NA	1	-	05/22/20 10:44	121,2540G	RI

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-02
Client ID: 28952-CONC-02
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 10:40
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.9		%	0.100	NA	1	-	05/22/20 10:44	121,2540G	RI

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-03
Client ID: 28952-CONC-03
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 10:50
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.3		%	0.100	NA	1	-	05/22/20 10:44	121,2540G	RI

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-04
Client ID: 28952-CONC-04
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 11:05
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.9		%	0.100	NA	1	-	05/22/20 10:44	121,2540G	RI

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-05
Client ID: 28952-CONC-05
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 11:20
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.2		%	0.100	NA	1	-	05/22/20 08:45	121,2540G	RI

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-06
Client ID: 28952-DUP-01
Sample Location: 700 SMITH BLVD.

Date Collected: 05/21/20 00:00
Date Received: 05/21/20
Field Prep: Not Specified

Sample Depth:
Matrix: Solid

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.9		%	0.100	NA	1	-	05/22/20 10:44	121,2540G	RI

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

SAMPLE RESULTS

Lab ID: L2021078-07
Client ID: 28952-CONC-06
Sample Location: 700 SMITH BLVD.

Sample Depth:
Matrix: Solid

Date Collected: 05/21/20 12:00
Date Received: 05/21/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	98.0		%	0.100	NA	1	-	05/22/20 10:44	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1373536-1 QC Sample: L2021201-01 Client ID: DUP Sample						
Solids, Total	96.3	96.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-07 QC Batch ID: WG1373634-1 QC Sample: L2021078-01 Client ID: 28952-CONC-01						
Solids, Total	97.9	98.0	%	0		20

Project Name: PORT OF ALBANY
Project Number: 28953

Lab Number: L2021078
Report Date: 05/29/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2021078-01A	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2021078-01B	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-01B1	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-01B2	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-02A	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2021078-02B	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-03A	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2021078-03B	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-04A	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2021078-04B	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-05A	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2021078-05B	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)
L2021078-06A	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		TS(7),NYTCL-8082-CNCRT(14)
L2021078-07A	Plastic 2oz unpreserved for TS	A	NA		2.0	Y	Absent		TS(7)
L2021078-07B	Glass 60mL/2oz unpreserved	A	NA		2.0	Y	Absent		NYTCL-8082-CNCRT(14)

*Values in parentheses indicate holding time in days

Project Name:	PORT OF ALBANY	**Lab Number:**	L2021078
Project Number:	28953	**Report Date:**	05/29/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	PORT OF ALBANY	**Lab Number:**	L2021078
Project Number:	28953	**Report Date:**	05/29/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	PORT OF ALBANY	**Lab Number:**	L2021078
Project Number:	28953	**Report Date:**	05/29/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	PORT OF ALBANY	**Lab Number:**	L2021078
Project Number:	28953	**Report Date:**	05/29/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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TEL: 508-898-9220
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/21/20

ALPHA Job #: L2021078

Client Information
Client: CHA
Address: 3 Winners Cir. Albany
Phone: 518-281-5436
Fax:
Email: rtotino@chacompanies.com

Project Information
Project Name: Port of Albany
Project Location: 700 Smith Blvd.
Project #: 28953
(Use Project name as Project #) ☒
Project Manager: Rich Totino
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # Quote #10896

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

ANALYSIS
Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PCBs 8082	TS	Sample Specific Comments	Total Bottle
21078-01	28952-CONC-01	5/21/20	10:20	CNCRT	RLT	X	X		2
-02	28952-CONC-02		10:40	CNCRT	RLT	X	X		2
-03	28952-CONC-03		10:50	CNCRT	RLT	X	X		2
-04	28952-CONC-04		11:05	CNCRT	RLT	X	X		2
-05	28952-CONC-05		11:20	CNCRT	RLT	X	X		2
-06	28952-DUP-01		—	CNCRT	RLT	X	X		2
-01	28952-MS-01		—	CNCRT	RLT	X	X		2
-01	28952-MSD-01		—	CNCRT	RLT	X	X		2
-07	28952-CONC-06		1200	CNCRT	RLT	X	X		2

Container Type: A P
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/21/20 12:40	Robert Hales AAL	5-21-20 12:40
			5/21/20 1400
	5-21-20 1800		5/21/20 1810

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)