



ONONDAGA COUNTY INDUSTRIAL DEVELOPMENT AGENCY 333 WEST WASHINGTON STREET, SUITE 130 SYRACUSE, NY 13202 PHONE: 315.435.3770 • FAX:315.435.3669 • SYRACUSECENTRAL.COM



JOHN H. MULROY CIVIC CENTER
421 MONTGOMERY STREET, 11TH FLOOR
SYRACUSE, NEW YORK 13202

Phone: 315.435.3205 Fax: 315.435.5744

ongov.net

June 26, 2020

Mr. Peter Lopez
Regional Administrator, Region 2
United States Environmental Protection Agency
290 Broadway
New York, New York 10007

Re: 800 Hiawatha Boulevard West (Former Roth Steel Site), Syracuse, New York

TSCA Self-Implementing Cleanup and Disposal Notification – Modification

Dear Mr. Lopez,

On September 30, 2019, a Supplemental Self-Implementing Cleanup and Disposal Notification (SICDN) was submitted on behalf of OCIDA for remediation activities that would allow a portion of the site to be utilized as a recreational trail. The Onondaga County Canalways Trail Extension Project, which is being constructed by the Onondaga County DOT, crosses the northern section of the Roth Steel site. The Site is in New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP) and NYSDEC has approved of the remediation measures presented in the September submittal. USEPA also approved of the proposed remediation measures for "low-occupancy" use (December 5, 2019 Letter), except for a very small portion of the project (Area 1B) that did not initially appear to meet USEPA's TSCA Self Implementing Cleanup requirements. This area represents about 1% of the trail project on the Site and could not be deeply excavated because several sewer-force mains are present that could be damaged. The purpose of this Modification is to present recent sampling results that demonstrate that a risk-based approval for Area 1B will not be necessary. There were also a few other minor project modifications based on post-excavation sampling results or NYSDEC requests in Remediation Areas 2A, 2B and C. In addition, it is requested that the remedial responsibility for the Trail-related SICDN activities be transferred from OCIDA to the Onondaga County DOT (OCDOT). While OCIDA will maintain ownership of the property, OCDOT is responsible for constructing and maintaining the trail. Attached is a copy of a "Change of Use" form that was previously submitted to NYSDEC confirming OCDOT's role for the trail project. OCDOT has already incorporated the September 30, 2019 Supplemental SICDN requirements into the construction specifications for the trail project. The Project manager and address for OCDOT is:

> Mr. Christopher Rauber Onondaga County DOT 421 Montgomery Street 11th Floor, Civic Center Syracuse, NY 13202

As the remedial party for the Trail Project, OCDOT accepts the terms and conditions of the existing December 5, 2019 approval from USEPA, as well as modifications to the approval under the current request.

The following is a summary of project modifications for which USEPA approval is requested. These remediation activities are ongoing with NYSDEC field oversight. All of the changes are consistent with the TSCA Self Implementing Cleanup requirements for a "low-occupancy" use. As discussed below, we are seeking (for a portion of the site) a revised cleanup level of 100 parts per million (with implementation of a cap and deed notice meeting the requirements of 40 CFR 761.61(a)(7) and 761.61(a)(8), respectively

Area 1B

As presented in the September 30, 2019 Supplemental SICDN, the subsurface soil PCB concentrations in Area 1B were believed to exceed 100 ppm based on the lateral projection of samples collected in boring (16)2-1 (see attached figure). This boring location is near Area 1B but is actually outside of it. In an April 22, 2020 telephone conversation with USEPA and NYSDEC, it was agreed that a 2 ft. deep excavation be undertaken in Area 1B and that post-excavation samples be collected. If the post-excavation samples had PCB concentrations below 100 ppm, a risk-based approval would not be necessary. Excavation in Area 1B was performed between April 28 and May 4. For most of the area, soil was excavated to a depth of 2 ft., as proposed. However, a concrete slab was encountered in a portion of the area, which limited the soil removal to a 1 ft. depth (see Figure 1). As agreed to with USEPA/NYSDEC, the concrete was sampled to determine its PCB concentration and assess whether it would need to be removed. As shown on the attached figure, the PCB levels for the concrete were less than 1 ppm. As such the concrete was allowed to remain in place. In the portion of Area 1B that did not contain the concrete, soil was excavated to 2 ft. and post-excavation bottom samples were collected. PCB concentrations ranged from 19 to 55.2 ppm. Seven PCB sidewall samples at the edges of Area 1B also were collected and ranged from 1.53 to 69.9 ppm. Since none of these 11 post-excavation samples exceed 100 ppm, a risk-based approval for Area 1B is not necessary. As verbally agreed to with USEPA/NYSDEC, a geotextile demarcation layer was placed at the bottom of the excavation. A soil cap with a minimum of 10 inches of compacted, low permeability clay will be placed since PCBs at depth exceed 25 ppm. The clay portion will meet the geotechnical requirements of 40 CFR 761.61(a)(7). This is consistent with the TSCA Self-Implementing procedures for a "lowoccupancy" use area. The clean fill cap over the concrete will be a total of approximately 12 inches, 10 inches of which will be compacted, low permeability clay. In the 2 ft. deep areas, the cap will contain approximately 14 inches of clean fill and a minimum of 10 inches of compacted, low permeability clay meeting the geotechnical requirements of 40 CFR 761.61(a)(7).

Area 2A

As proposed in the September 30, 2019 Supplemental SICDN, this area is within the utility buffer zone and was slated for a 1 ft. thick soil cover without excavation. PCBs exceed 25 ppm at depths below 4 ft. but are less than 100 ppm. Soil removal deeper than 2 ft. was not performed since it could damage existing utilities. A change was implemented in this area due to a sidewall sample collected on the west edge of Area 1B (Comp 1B-West 1'). NYSDEC requested a 2 ft. deep excavation to remove PCB concentrations of 19.3 ppm. A geotextile demarcation layer was placed at the bottom of the excavation and will be followed by a cap with approximately 14 inches of clean backfill and a minimum of 10 inches of compacted, low permeability clay. The clay will meet the geotechnical requirements of 40 CFR 761.61(a)(7).

Area 2B

As indicated in the September 30, 2019 Supplemental SICDN, the goal was to excavate to depths of 8.5 ft. around Pier 6 and bottom samples were to be collected. If PCBs exceeded 10 ppm and the soil was stable, the excavation would be deepened. If soil were not stable, a geotextile fabric would be added, and the excavation backfilled. During project implementation, excavation proceeded to a depth of 8.5 feet. Two bottom grab and two bottom composite samples were collected with the PCB concentrations ranging from 2.54 to 53.2 ppm. However, the excavation could not be deepened due to groundwater infiltration

and soil instability. With NYSDEC concurrence, a geotextile demarcation layer was placed at the bottom of the excavation. The excavation was backfilled with clean fill that will include 10 inches of compacted, low permeability clay meeting the geotechnical requirements of 40 CFR 761.61(a)(7).

West of Area C

Other than in the immediate vicinity of Pier 5, no remediation was proposed west of Area C based on existing sampling data. However, at the request of NYSDEC, OCDOT has agreed to extend the 1 ft. thick clean fill cap from Area 3 to the property line. This cap will be placed within the limits of the permanent easement strip for the trail. This area already achieved the TSCA low occupancy use requirements since no PCBs exceeded 25 ppm.

In addition to Figure 1, which shows the recent sample results pertinent to the above discussion, the laboratory data reports are also attached along with the NYSDEC Change of Use form.

Do not hesitate to contact me if you have any questions on this or need additional information.

Very truly yours,

Robert M. Petrovich Executive Director

Onondaga County Industrial Development Agency

M. Voss

Commissioner

Onondaga County DOT

Electronic Attachments

cc: C. Rauber, Onondaga County DOT

J. Ciampa, JMT

J. Davis, Esq., Barclay Damon

K. Cahill, NYSDEC

H. Warner, NYSDEC

J. Haklar, USEPA

B. Conetta, USEPA

J. Thomas, Barton & Loguidice



ONONDAGA COUNTY INDUSTRIAL DEVELOPMENT AGENCY

333 WEST WASHINGTON STREET, SUITE 130, SYRACUSE, NY 13202 PHONE: 315.435.3770 • FAX: 315.435.3669 • WWW.ONGOVED.COM

January 8, 2020

Ms. Kelly Lewandowski
Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7020

Re: Canalways Trail, 60-Day Advance Notification of Site Change of Use

800 Hiawatha Boulevard West (Former Roth Steel Site), Syracuse, New York - BCP

Site C734083

Dear Ms. Lewandowski,

Onondaga County Industrial Development Agency (OCIDA) is submitting the above-referenced notification consistent with the requirements of 6 NYCRR Part 375-1.11(d) and 375-1.9(f) for the proposed change of use to a portion of the former Roth Steel Site, located at 800 Hiawatha Boulevard West in Syracuse, New York. The property is under the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Cleanup Program (BCP) as Site No. C734083. The Onondaga County Canalways Trail Extension Project, which will be constructed by the Onondaga County DOT, will cross the northern section of the Roth Steel Site. As part of constructing the trail, OCDOT will be responsible for completing remedial work associated with trail construction within the limits of the defined easement area. OCIDA will continue to own the property and retain remedial responsibility for the balance of the property.

NYSDEC (Region 7, Division of Environmental Remediation) and USEPA have been closely involved with the Trail's cleanup requirements, including Self-Implementing Cleanup and Disposal Notifications (SICDN) submitted in December 19, 2016, June 6, 2019, and September 11, 2019 (as required by 40 CFR 761.61 (a)) for remediation activities that would allow a portion of the Roth Steel Site to be utilized as a recreational trail. NYSDEC issued an approval of the SICDN Supplement on September 17, 2019. The majority of the Trail is "at-grade" and will be separated from the rest of the Roth Site by a fence. It will include an asphalt trail and soil cap meeting NYSDEC and USEPA remedial requirements. A portion of the trail contains an elevated pedestrian bridge. Soil beneath the bridge will be excavated and/or capped in accordance with approved NYSDEC plans. Excavated soil will be disposed of at appropriately permitted landfills.

Since trail construction is tentatively scheduled to begin on January 24, 2020, we are requesting an expedited review of this Change of Use Form. We appreciate NYSDEC's continue assistance with the proposed project and its schedule requirements. If you have any questions regarding the submittal or require any additional information, please feel free to contact me.

Very truly yours,

Robert M. Petrovich
Executive Director
Onondaga County IDA
RobertPetrovich@ongov.net

Electronic Attachment

Cc:

- N. Stevens, OCIDA
- C. Rauber, Onondaga County DOT
- M. Voss, Onondaga County DOT
- T. Glazier, Onondaga County
- A. Rivizzigno, Esq., Barclay Damon
- S. Wagh, NYSDOH
- S. McLaughlin, NYSDOH
- K. Cahill, NYSDEC
- M. Sheen, Esq., NYSDEC
- H. Warner, NYSDEC
- J. Haklar, USEPA
- B. Conetta, USEPA
- J. Ciampa, JMT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section New York State Department of Environmental Conservation Division of Environmental Remediation, 625 Broadway Albany NY 12233-7020

ownership is transferred to another party in the future.

I.	Site Name	800 Hiawatha Blvd V	Vest (Former Roth Steel)	DEC Site ID No.	C734083
II.			n Submitting Notification Onondaga County Industrial		(OCIDA)
	Address1:	333 W. Washington St	reet, Suite 130		
		Syracuse, New York 1	3202		
		315-437-3770	E-mail: robertpe	trovich@ongov.net	
III.	Type of Cl	nange and Date: Ind	licate the Type of Change	e(s) (check all that app	ply):
	✓ Change	in Ownership or Ch	ange in Remedial Party(i	es)	
	Transfe	er of Certificate of Co	ompletion (CoC)		
	✓ Other (e.g., any physical alto	eration or other change of	f use)	
	Proposed I	Date of Change (mm/	dd/yyyy): 01/24/2020		
IV.	parcel info Onondaga strip of the The NYSD is at-grade	ormation. County DOT (OCDOT site. The activity will be EC DER (Region 7) haw the will be separated from the country will be separated from the country will be separated.	ed change(s) indicated ab) will construct a multi-use is e completed within a perma as already approved the Tra om the rest of the Roth Site remedial requirements. A p	recreational trail & bridg ment easement shown ill Construction Plan. Tl by a fence. It will includ	ge along the northern on the attached map. he majority of the Trail de an asphalt trail & soil
	not affect needed). The Trail a overseeing remedy for	the site's proposed, rea is part of the Roth site construction of the this portion of the site.	st explain <u>and</u> advise the songoing, or completed restraints and steel BCP site, which is owe trail, including the capping They will also obtain easernts along the trail, and oper	medial program (atta ned by OCIDA. OCDO & excavation work tha nents and deed restrict	T will be responsible for t will serve as the tions. Future site

V.	responsibi	on Statement: Where the change of use results in a change in ownership or in ity for the proposed, ongoing, or completed remedial program for the site, the following in must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):						
	order, agre	eement, Site Manageme	we purchaser and/or remedial party has been provided a copy of any nt Plan, or State Assistance Contract regarding the Site's remedial pproved remedial work plans and reports.					
	Name:	(Signature)	7 L [B20] (Date)					
		Robert M. Petrovich						
		(Print Name)						
	Address1:	333 W. Washington Stre	333 W. Washington Street, Suite 130					
	Address2:	Syracuse, New York 132	202					
	Phone:	315-437-3770	E-mail: robertpetrovich@ongov.net					
	Manageme (IC/ECs),	ent Plan requiring perior indicate who will be the ective Owner Prosp	to an Environmental Easement, Deed Restriction, or Site dic certification of institutional controls/engineering controls e certifying party (attach additional sheets if needed). ective Remedial Party Prospective Owner Representative County Department of Transportation					
	Address1:	421 Montgomery Street,						
	Address2:	Syracuse, New York 132	202					
	Phone:	315-435-3176	E-mail: MartinVoss@ongov.net					
	Certifying	404 Minutesanias Obsessed	ss, Onondaga County Department of Transportation 11th Floor, Civic Center					
	Address2:	O NI VI. 400	202					
	Phone:	315-435-3176	E-mail: MartinVoss@ongov.net					

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

- 1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
- 2. the name and contact information for any owner representative; and
- 3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name:		
	(Signature)	(Date)
	(Print Name)	
Address1:		
Address2:		
Phone:	E-mail	

Continuation Sheet Prospective Owner/Holder Prospective Remedial Party Prospective Owner Representative Address1: Address2: E-mail: Phone: Prospective Owner/Holder | Prospective Remedial Party | Prospective Owner Representative Name: Address1: Address2: E-mail: Phone: Prospective Owner/Holder Prospective Remedial Party Prospective Owner Representative Name: Address1: Address2: E-mail: Phone: Prospective Owner/Holder Prospective Remedial Party Prospective Owner Representative Name: Address1: Address2: _____ E-mail: _____ Phone: Prospective Owner/Holder Prospective Remedial Party Prospective Owner Representative Address1: Address2: E-mail: ______ Phone: Prospective Owner/Holder Prospective Remedial Party Prospective Owner Representative Name: Address1: Address2: E-mail:

New York State Department of Environmental Conservation



Instructions for Completing the 60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion (CoC), and/or Ownership Form

Submit to: Chief, Site Control Section, New York State Department of Environmental Conservation, Division of Environmental Remediation, 625 Broadway, Albany NY 12233-7020

Section I Site Name	Description Official DEC site name. (see http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3)
DEC Site ID No.	DEC site identification number.
Section II Name	Contact Information of Person Submitting Notification Name of person submitting notification of site change of use, transfer of certificate of completion and/or ownership form.
Address1	Street address or P.O. box number of the person submitting notification.
Address2	City, state and zip code of the person submitting notification.
Phone	Phone number of the person submitting notification.
E-mail	E-mail address of the person submitting notification.
Section III Check Boxes	Type of Change and Date Check the appropriate box(s) for the type(s) of change about which you are notifying the Department. Check all that apply.
Proposed Date of Change	Date on which the change in ownership or remedial party, transfer of CoC, or other change is expected to occur.
Section IV Description	Description For each change checked in Section III, describe the proposed change. Provide all applicable maps, drawings, and/or parcel information. If "Other" is checked in Section III, explain how the change may affect the site's proposed, ongoing, or completed remedial program at the site. Please attach additional sheets, if needed.

Section V Certification Statement

This section must be filled out if the change of use results in a change of ownership or responsibility for the proposed, ongoing, or completed remedial program for the site. When completed, it provides DEC with a certification that the prospective purchaser has been provided a copy of any order, agreement, or State assistance contract as well as a copy of all approved remedial work plans and reports.

Name The owner of the site property or their designated representative must sign and date the

certification statement. Print owner or designated representative's name on the line provided

below the signature.

Address 1 Owner or designated representative's street address or P.O. Box number.

Address2 Owner or designated representative's city, state and zip code.

Phone Owner or designated representative's phone number.

E-Mail Owner or designated representative's E-mail.

Section VI Contact Information for New Owner, Remedial Party, and CoC Holder (if a CoC was issued)

Fill out this section only if the site is to be sold or there will be a new remedial party. Check the appropriate box to indicate whether the information being provided is for a Prospective Owner, CoC Holder (if site was ever issued a COC), Prospective Remedial Party, or Prospective Owner Representative. Identify the prospective owner or party and include contact information. A Continuation Sheet is provided at the end of this form for additional owner/party information.

Name of Prospective Owner, Prospective Remedial Party or Prospective Owner Representative.

Address 1 Street address or P.O. Box number for the Prospective Owner, Prospective Remedial Party, or

Prospective Owner Representative.

Address2 City, state and zip code for the Prospective Owner, Prospective Remedial Party, or Prospective

Owner Representative.

Phone Phone number for the Prospective Owner, Prospective Remedial Party or Prospective Owner

Representative.

E-Mail E-mail address of the Prospective Owner, Prospective Remedial Party or Prospective Owner

Representative.

If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/EC), indicate who will be the certifying party(ies). Attach additional sheets, if needed.

Certifying Party

Name of Certifying Party.

Address1 Certifying Party's street address or P.O. Box number.

Address2 Certifying Party's city, state and zip code.

Phone Certifying Party's Phone number.

E-Mail Certifying Party's E-mail address.

Section VII Agreement to Notify DEC After Property Transfer/Sale

This section must be filled out for all property transfers of all or part of the site. If the site also has a CoC, then the CoC shall be transferred using DEC's form found at http://www.dec.ny.gov/chemical/54736.html

Filling out and signing this section of the form indicates you will comply with the post transfer notifications within the required timeframes specified on the form. If a CoC has been issued for the site, the DEC will allow 30 days for the post transfer notification so that the "Notice of CoC Transfer Form" and proof of it's filing can be included. Normally the required post transfer notification must be submitted within 15 day (per 375-1.11(d)(3)(ii)) when no CoC is involved.

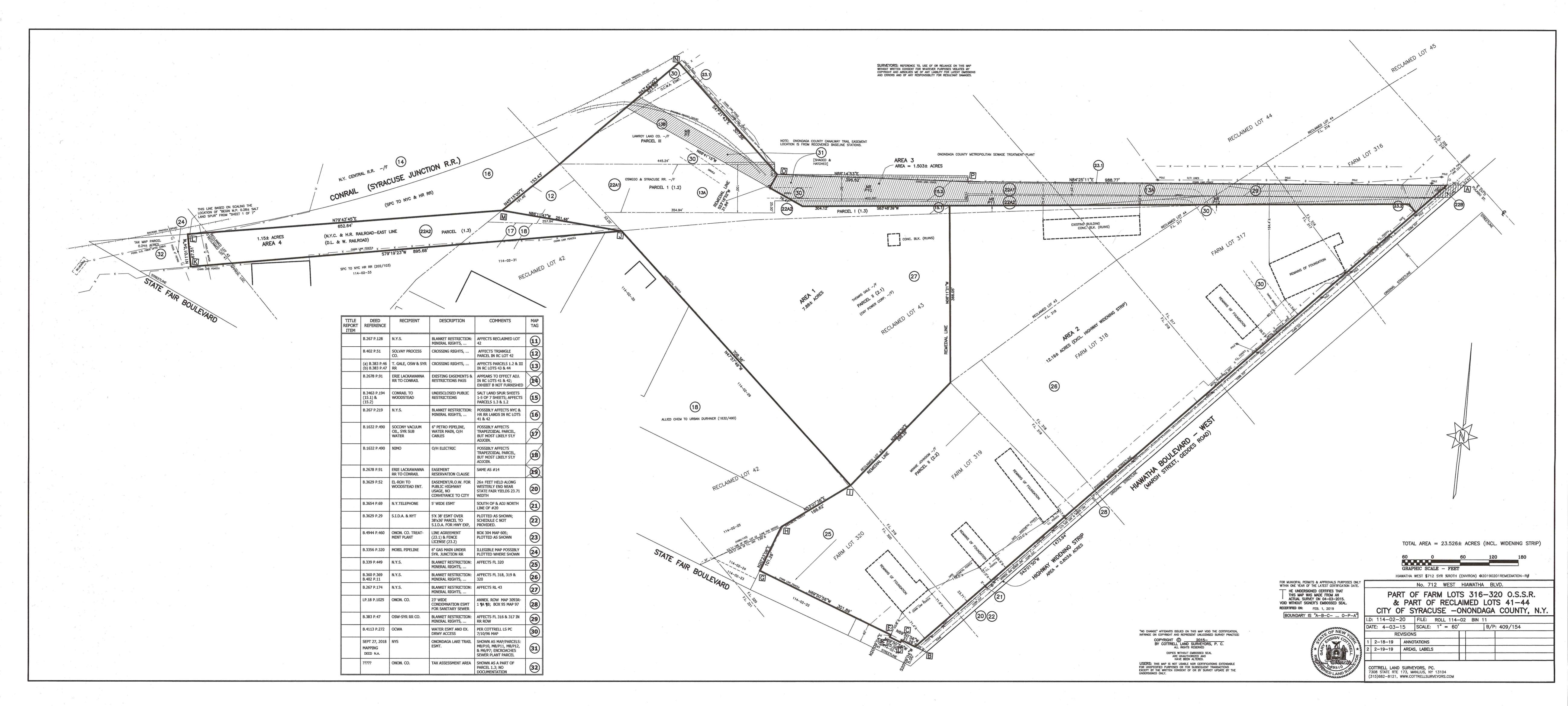
Name Current property owner must sign and date the form on the designated lines. Print owner's name

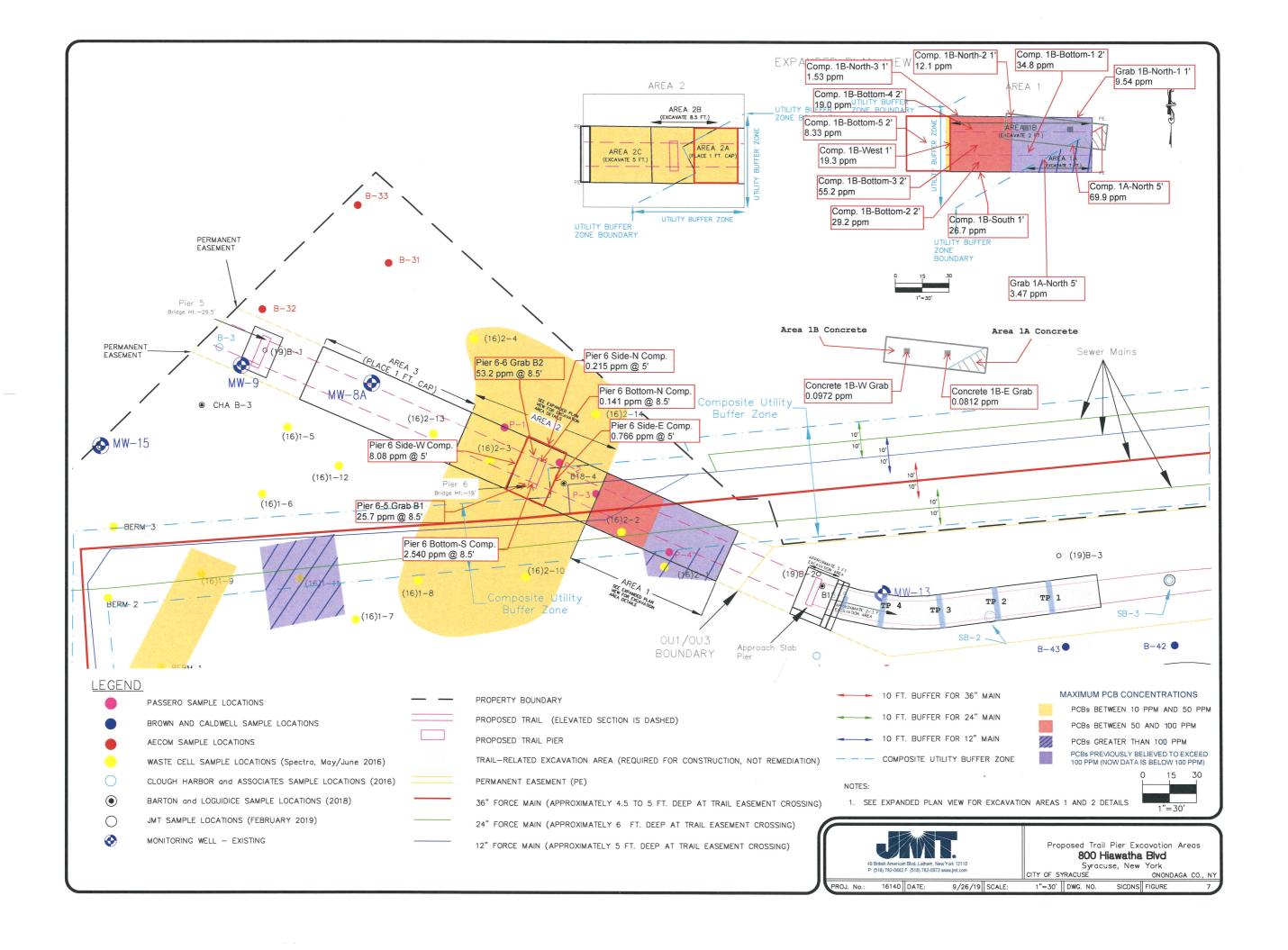
on the line provided.

Address1 Current owner's street address.

Address2 Current owner's city, state and zip code.

3 03/2014







ANALYTICAL REPORT

Lab Number: L2011647

Client: Barton & Loguidice, P.C

443 Electronics Pkwy

443 Electronics Pkwy, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: TRAIL OVER CSX

Project Number: 055.167.322

Report Date: 03/16/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TRAIL OVER CSX

Project Number: 055.167.322

Lab Number:

L2011647

Report Date: 03/16/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2011647-01	PIER 6-5 GRAB B1	SOIL	CITY OF SYRACUSE	03/13/20 00:00	03/13/20
L2011647-02	PIER 6-6 GRAB B2	SOIL	CITY OF SYRACUSE	03/13/20 00:00	03/13/20



Project Name:TRAIL OVER CSXLab Number:L2011647Project Number:055.167.322Report Date:03/16/20

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:TRAIL OVER CSXLab Number:L2011647Project Number:055.167.322Report Date:03/16/20

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.

PCBs

L2011647-01 and -02: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

Title: Technical Director/Representative Date: 03/16/20

Melissa Sturgis Melissa Sturgis

ALPHA

ORGANICS



PCBS



Project Name: TRAIL OVER CSX Lab Number: L2011647

Project Number: 055.167.322 **Report Date:** 03/16/20

SAMPLE RESULTS

Lab ID:L2011647-01DDate Collected:03/13/20 00:00Client ID:PIER 6-5 GRAB B1Date Received:03/13/20Sample Location:CITY OF SYRACUSEField Prep:Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 03/14/20 03:10
Analytical Date: 03/15/20 21:04 Cleanup Method: EPA 3665A

Analyst: HT Cleanup Date: 03/14/20
Percent Solids: 73% Cleanup Date: 03/14/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	4330	384.	100	А
Aroclor 1221	ND		ug/kg	4330	434.	100	Α
Aroclor 1232	ND		ug/kg	4330	918.	100	Α
Aroclor 1242	17100		ug/kg	4330	584.	100	Α
Aroclor 1248	ND		ug/kg	4330	649.	100	Α
Aroclor 1254	6650		ug/kg	4330	474.	100	Α
Aroclor 1260	1960	J	ug/kg	4330	800.	100	Α
Aroclor 1262	ND		ug/kg	4330	550.	100	Α
Aroclor 1268	ND		ug/kg	4330	448.	100	Α
PCBs, Total	25700	J	ug/kg	4330	384.	100	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: TRAIL OVER CSX Lab Number: L2011647

Project Number: 055.167.322 **Report Date:** 03/16/20

SAMPLE RESULTS

 Lab ID:
 L2011647-02
 D
 Date Collected:
 03/13/20 00:00

 Client ID:
 PIER 6-6 GRAB B2
 Date Received:
 03/13/20

Client ID: PIER 6-6 GRAB B2 Date Received: 03/13/20
Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 03/14/20 03:10
Analytical Date: 03/15/20 21:16 Cleanup Method: EPA 3665A

Analyst: HT Cleanup Date: 03/14/20
Percent Solids: 84% Cleanup Date: 03/14/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3770	335.	100	А
Aroclor 1221	ND		ug/kg	3770	378.	100	Α
Aroclor 1232	ND		ug/kg	3770	799.	100	Α
Aroclor 1242	25800		ug/kg	3770	508.	100	Α
Aroclor 1248	ND		ug/kg	3770	565.	100	Α
Aroclor 1254	21500		ug/kg	3770	412.	100	В
Aroclor 1260	5860		ug/kg	3770	696.	100	Α
Aroclor 1262	ND		ug/kg	3770	479.	100	Α
Aroclor 1268	ND		ug/kg	3770	390.	100	Α
PCBs, Total	53200		ug/kg	3770	335.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



L2011647

Project Name: TRAIL OVER CSX Lab Number:

Project Number: 055.167.322 **Report Date:** 03/16/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 03/14/20 16:00

Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/13/20 19:58
Cleanup Method: EPA 3665A
Cleanup Date: 03/14/20
Cleanup Date: EPA 3660B
Cleanup Date: 03/14/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	n Lab for s	ample(s):	01-02	Batch: WG1350	0918-1
Aroclor 1016	ND		ug/kg	32.5	2.89	А
Aroclor 1221	ND		ug/kg	32.5	3.26	А
Aroclor 1232	ND		ug/kg	32.5	6.89	Α
Aroclor 1242	ND		ug/kg	32.5	4.38	А
Aroclor 1248	ND		ug/kg	32.5	4.88	Α
Aroclor 1254	ND		ug/kg	32.5	3.56	Α
Aroclor 1260	ND		ug/kg	32.5	6.01	Α
Aroclor 1262	ND		ug/kg	32.5	4.13	Α
Aroclor 1268	ND		ug/kg	32.5	3.37	Α
PCBs, Total	ND		ug/kg	32.5	2.89	Α

		Acceptance			
Surrogate	%Recovery Qualifi	er Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	83	30-150	Α		
Decachlorobiphenyl	60	30-150	Α		
2,4,5,6-Tetrachloro-m-xylene	82	30-150	В		
Decachlorobiphenyl	58	30-150	В		



Lab Control Sample Analysis Batch Quality Control

Project Name: TRAIL OVER CSX

Lab Number:

L2011647

Project Number: 055.167.322

Report Date: 03/16/20

Parameter	LCS %Recovery Qual		LCSD %Recovery Qual		%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westk							Quai	Lillito	Column
Aroclor 1016	84	1 - (-)	81		40-140	4		50	A
Aroclor 1260	59		58		40-140	2		50	А

Surrogate	LCS %Recovery Qu	LCSD al %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	86	81	30-150 A
Decachlorobiphenyl	65	64	30-150 A
2,4,5,6-Tetrachloro-m-xylene	79	75	30-150 B
Decachlorobiphenyl	59	59	30-150 B

INORGANICS & MISCELLANEOUS



Lab Number:

Project Name: TRAIL OVER CSX

L2011647 **Project Number: Report Date:** 03/16/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2011647-01 03/13/20 00:00

Client ID: Date Received: PIER 6-5 GRAB B1 03/13/20 Not Specified Sample Location: CITY OF SYRACUSE Field Prep:

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry - Westborough Lab											
Solids, Total	73.0		%	0.100	NA	1	-	03/14/20 10:21	121,2540G	RI	



Project Name: Lab Number: TRAIL OVER CSX

L2011647 Report Date: **Project Number:** 03/16/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2011647-02 03/13/20 00:00

Client ID: Date Received: PIER 6-6 GRAB B2 03/13/20 Not Specified Sample Location: CITY OF SYRACUSE Field Prep:

Sample Depth:

Matrix: Soil

Parameter	Result C	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
General Chemistry - Westborough Lab											
Solids, Total	83.6		%	0.100	NA	1	-	03/14/20 10:21	121,2540G	RI	



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2011647

Report Date:

03/16/20

Parameter	Native Sam	ple D	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID:	WG1351026-1	QC Sample:	L2011296-01	Client ID:	DUP Sample
Solids, Total	90.0		90.8	%	1		20



Project Name:

Project Number:

TRAIL OVER CSX

055.167.322

Lab Number: L2011647

Report Date: 03/16/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

TRAIL OVER CSX

YES

Cooler Information

Project Name:

Custody Seal Cooler

Α Absent

Project Number: 055.167.322

Container Information				Initial	Final	Temp			Frozen		
	Container ID	Container Type	Cooler		рН	deg C	Pres	Seal	Date/Time	Analysis(*)	
	L2011647-01A	Glass 60mL/2oz unpreserved	Α	NA		3.0	Υ	Absent		TS(7),NYTCL-8082(14)	
	L2011647-02A	Glass 60mL/2oz unpreserved	Α	NA		3.0	Υ	Absent		TS(7),NYTCL-8082(14)	



Project Name: TRAIL OVER CSX Lab Number: L2011647

Project Number: 055.167.322 Report Date: 03/16/20

GLOSSARY

Acronyms

EDL

LOD

LOQ

MS

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.)

 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.

 - 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.)

- 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.

- 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: TRAIL OVER CSX Lab Number: L2011647

Project Number: 055.167.322 Report Date: 03/16/20

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

Terms

1

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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:TRAIL OVER CSXLab Number:L2011647Project Number:055.167.322Report Date:03/16/20

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.

 $\boldsymbol{RE} \quad \ \, \text{-Analytical results} \text{ are from sample re-extraction}.$

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: TRAIL OVER CSX Lab Number: L2011647
Project Number: 055.167.322 Report Date: 03/16/20

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.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 16

Published Date: 2/17/2020 10:46:05 AM

Page 1 of 1

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

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (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, SM4500CI-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 II, 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

Page 20 of 21

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

Document Type: Form

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Location: C 17	77430: 35 Whitney Rd, Suite 5 2205: 14 Walker Way NY 14150: 275 Cooper Ave, Suite 105						03		ALPHA Job # 201647 Billing Information Same as Client Info		
Client Information		Project # 055,16	The second second					Other				055.167.3	
Client: BACTON A		(Use Project name as P					Regula	tory Requ	irement			Disposal Site Information	1
Phone: 315-457 Fax: 3THeMASD 1 Email: LeGue	-5200 DARTIN AND DICK.COM	Project Manager: GRE ALPHAQuote #: Turn-Around Time Standar Rush (only if pre approved	d	Due Date:	GUINICE	E.Com		NY TOGS AWQ Standa NY Restricte NY Unrestric NYC Sewer	d Use	NY Pa NY CP Other		Please identify below location applicable disposal facilities. Disposal Facility: NJ NY Other:	
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Other project specific (-) EMAIL Please specify Metals	DRAFT INVOL	nents: LE TO: JTHOMAS		D BAR LOSUIDI			80824					Done Lab to do Preservation Lab to do (Please Specify below)	t a l
ALPHA Lab ID (Lab Use Only)	Sa	imple ID	Collec	tion Time	Sample Matrix	Sampler's Initials	673					10 10 50 50	_ !
	PIER 6 -1	GRAB.	3/13/2	Time		TOTAL STREET	-	-		\vdash		Sample Specific Comment	is e
	PIER C D	GKAB-	3/13/00		50	EME	\vdash	-			_		_
116/17 -61	PIER 6 -3	SKAB											
11647-01	PIEK 6 - 5	GRAB BI	+I				V						1
-00	PIERG -G	GRAIS B2	4		4	*	1/	-		\vdash			1
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification Mansfield: Certification Mansfield: Certification Mansfield: Man	Con						Please print clearly, legand completely. Samp not be logged in and turnaround time clock	oles can will not			
F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃	B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Relinguished	7:30/m 2:30/m 10 /645	m.B					Time . 44 020 (6 0625	start until any ambiguit resolved. BY EXECUT THIS COC, THE CLIE HAS READ AND AGR TO BE BOUND BY AL TERMS & CONDITION (See reverse side.)	TING INT REES LPHA'S		



ANALYTICAL REPORT

Lab Number: L2012324

Client: Barton & Loguidice, P.C

443 Electronics Pkwy Liverpool, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: TRAIL OVER CSX

Project Number: 055.167.322

Report Date: 03/27/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: TRAIL OVER CSX

Project Number: 055.167.322

 Lab Number:
 L2012324

 Report Date:
 03/27/20

Alpha Sample	ID Client IE)	Matrix	Sample Location	Collection Date/Time	Receive Date
L201232	24-01 PIER 6 E	BOTTOM-N	SOIL	CITY OF SYRACUSE	03/18/20 13:00	03/18/20
L201232	24-02 PIER 6 E	BOTTOM-S	SOIL	CITY OF SYRACUSE	03/18/20 13:05	03/18/20
L201232	24-03 PIER 6 S	SIDE-N	SOIL	CITY OF SYRACUSE	03/18/20 13:55	03/18/20
L201232	24-04 PIER 6 S	SIDE-E	SOIL	CITY OF SYRACUSE	03/18/20 14:00	03/18/20
L201232	24-05 PIER 6 S	SIDE-W	SOIL	CITY OF SYRACUSE	03/18/20 13:50	03/18/20



Project Name: TRAIL OVER CSX Lab Number: L2012324
Project Number: 055.167.322 Report Date: 03/27/20

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:TRAIL OVER CSXLab Number:L2012324Project Number:055.167.322Report Date:03/27/20

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.

PCBs

L2012324-05: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

Title: Technical Director/Representative Date: 03/27/20

Melissa Sturgis Melissa Sturgis

ALPHA

ORGANICS



PCBS



Project Name: TRAIL OVER CSX Lab Number: L2012324

Project Number: 055.167.322 **Report Date:** 03/27/20

SAMPLE RESULTS

Lab ID: L2012324-01 Date Collected: 03/18/20 13:00

Client ID: PIER 6 BOTTOM-N Date Received: 03/18/20 Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 03/23/20 03:44

Analytical Date: 03/24/20 11:29 Cleanup Method: EPA 3665A
Analyst: KB Cleanup Date: 03/24/20
Percent Solids: 55% Cleanup Method: EPA 3660B

Percent Solids: 55% Cleanup Method: EPA 3660 Cleanup Date: 03/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Wes	stborough Lab						
Aroclor 1016	ND			FO 4	5.28	4	А
			ug/kg	59.4		ı	A
Aroclor 1221	ND		ug/kg	59.4	5.96	1	Α
Aroclor 1232	ND		ug/kg	59.4	12.6	1	Α
Aroclor 1242	ND		ug/kg	59.4	8.01	1	Α
Aroclor 1248	63.0		ug/kg	59.4	8.92	1	В
Aroclor 1254	78.2		ug/kg	59.4	6.50	1	В
Aroclor 1260	ND		ug/kg	59.4	11.0	1	Α
Aroclor 1262	ND		ug/kg	59.4	7.55	1	Α
Aroclor 1268	ND		ug/kg	59.4	6.16	1	Α
PCBs, Total	141		ug/kg	59.4	5.28	1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
			<u> </u>	
2,4,5,6-Tetrachloro-m-xylene	59		30-150	Α
Decachlorobiphenyl	35		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	46		30-150	В
Decachlorobiphenyl	32		30-150	В



Project Name: TRAIL OVER CSX Lab Number: L2012324

Project Number: 055.167.322 **Report Date:** 03/27/20

SAMPLE RESULTS

Lab ID:L2012324-02DDate Collected:03/18/20 13:05Client ID:PIER 6 BOTTOM-SDate Received:03/18/20Sample Location:CITY OF SYRACUSEField Prep:Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 03/23/20 03:44
Analytical Date: 03/24/20 21:52 Cleanup Method: EPA 3665A

Analytical Date: 03/24/20 21:52

Analyst: AD

Percent Solids: 67%

Cleanup Method: EPA 3665A

Cleanup Date: 03/24/20

Cleanup Method: EPA 3660B

Cleanup Method: EPA 3660B

Cleanup Date: 03/24/20

Parameter	Result	Qualifier Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by C	GC - Westborough Lab					
Aroclor 1016	ND	ug/kg	242	21.5	5	Α
Aroclor 1221	ND	ug/kg	242	24.2	5	Α
Aroclor 1232	ND	ug/kg	242	51.3	5	Α
Aroclor 1242	ND	ug/kg	242	32.6	5	Α
Aroclor 1248	1610	ug/kg	242	36.3	5	В
Aroclor 1254	934	ug/kg	242	26.4	5	В
Aroclor 1260	ND	ug/kg	242	44.7	5	Α
Aroclor 1262	ND	ug/kg	242	30.7	5	Α
Aroclor 1268	ND	ug/kg	242	25.0	5	Α
PCBs, Total	2540	ug/kg	242	21.5	5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	Α
Decachlorobiphenyl	48		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	75		30-150	В
Decachlorobiphenyl	51		30-150	В



Project Name: TRAIL OVER CSX Lab Number: L2012324

Project Number: 055.167.322 **Report Date:** 03/27/20

SAMPLE RESULTS

Lab ID: L2012324-03 Date Collected: 03/18/20 13:55

Client ID: PIER 6 SIDE-N Date Received: 03/18/20 Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 03/23/20 03:44

Analytical Date: 03/24/20 11:53 Cleanup Method: EPA 3665A
Analyst: KB Cleanup Date: 03/24/20
Percent Solids: 64% Cleanup Method: EPA 3660B

Percent Solids: 64% Cleanup Method: EPA 3660 Cleanup Date: 03/24/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - We	stborough Lab						
Aroclor 1016	ND		ug/kg	51.7	4.59	1	Α
Aroclor 1221	ND		ug/kg	51.7	5.18	1	Α
Aroclor 1232	ND		ug/kg	51.7	11.0	1	Α
Aroclor 1242	ND		ug/kg	51.7	6.97	1	Α
Aroclor 1248	90.1		ug/kg	51.7	7.75	1	Α
Aroclor 1254	79.7		ug/kg	51.7	5.65	1	Α
Aroclor 1260	31.5	J	ug/kg	51.7	9.55	1	В
Aroclor 1262	ND		ug/kg	51.7	6.56	1	Α
Aroclor 1268	13.8	J	ug/kg	51.7	5.35	1	В
PCBs, Total	215	J	ug/kg	51.7	4.59	1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	Α
Decachlorobiphenyl	46		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	56		30-150	В
Decachlorobiphenyl	47		30-150	В



Project Name: TRAIL OVER CSX Lab Number: L2012324

Project Number: 055.167.322 **Report Date:** 03/27/20

SAMPLE RESULTS

Lab ID: L2012324-04 Date Collected: 03/18/20 14:00

Client ID: PIER 6 SIDE-E Date Received: 03/18/20 Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1.8082A Extraction Date: 03/24/20 10:22

Analytical Method: 1,8082A Extraction Date: 03/24/20 10:22
Analytical Date: 03/25/20 21:47 Cleanup Method: EPA 3665A

Analyst: HT Cleanup Date: 03/25/20
Percent Solids: 83% Cleanup Method: EPA 3660B
Cleanup Date: 03/25/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - V	Vestborough Lab						
Aroclor 1016	ND		ug/kg	39.1	3.47	1	Α
Aroclor 1221	ND		ug/kg	39.1	3.92	1	Α
Aroclor 1232	ND		ug/kg	39.1	8.28	1	Α
Aroclor 1242	528		ug/kg	39.1	5.27	1	В
Aroclor 1248	ND		ug/kg	39.1	5.86	1	Α
Aroclor 1254	199		ug/kg	39.1	4.28	1	В
Aroclor 1260	38.5	J	ug/kg	39.1	7.22	1	В
Aroclor 1262	ND		ug/kg	39.1	4.96	1	Α
Aroclor 1268	ND		ug/kg	39.1	4.05	1	Α
PCBs, Total	766	J	ug/kg	39.1	3.47	1	В

Currente	0/ 8	0	Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	Α
Decachlorobiphenyl	31		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	51		30-150	В
Decachlorobiphenyl	38		30-150	В



03/25/20

Cleanup Date:

Project Name: TRAIL OVER CSX Lab Number: L2012324

Project Number: 055.167.322 **Report Date:** 03/27/20

SAMPLE RESULTS

Lab ID: L2012324-05 D Date Collected: 03/18/20 13:50

Client ID: PIER 6 SIDE-W Date Received: 03/18/20 Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 03/24/20 10:22

Analytical Date: 03/26/20 17:54 Cleanup Method: EPA 3665A
Analyst: JAW Cleanup Date: 03/25/20
Percent Solids: 79% Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC -	Westborough Lab						
Aroclor 1016	ND		ug/kg	826	73.3	20	А
Aroclor 1221	ND		ug/kg	826	82.7	20	Α
Aroclor 1232	ND		ug/kg	826	175.	20	Α
Aroclor 1242	4690		ug/kg	826	111.	20	В
Aroclor 1248	ND		ug/kg	826	124.	20	Α
Aroclor 1254	2940		ug/kg	826	90.3	20	В
Aroclor 1260	445	J	ug/kg	826	152.	20	В
Aroclor 1262	ND		ug/kg	826	105.	20	Α
Aroclor 1268	ND		ug/kg	826	85.5	20	Α
PCBs, Total	8080	J	ug/kg	826	73.3	20	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



L2012324

Project Name: TRAIL OVER CSX

Report Date: Project Number: 055.167.322

03/27/20

Lab Number:

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 03/23/20 16:04

Analyst: CW

Extraction Method: EPA 3546 03/22/20 15:36 **Extraction Date:** Cleanup Method: EPA 3665A Cleanup Date: 03/23/20 Cleanup Method: EPA 3660B Cleanup Date: 03/23/20

Parameter	Result	Qualifier Ur	nits	RL		MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	Lab for sam	ple(s):	01-03	Batch:	WG13	53882-1
Aroclor 1016	ND	uģ	g/kg	32.6		2.90	А
Aroclor 1221	ND	u	g/kg	32.6		3.27	Α
Aroclor 1232	ND	uį	g/kg	32.6		6.92	Α
Aroclor 1242	ND	uį	g/kg	32.6		4.40	Α
Aroclor 1248	ND	u	g/kg	32.6		4.90	Α
Aroclor 1254	ND	uį	g/kg	32.6		3.57	Α
Aroclor 1260	ND	uį	g/kg	32.6		6.03	Α
Aroclor 1262	ND	u	g/kg	32.6		4.14	Α
Aroclor 1268	ND	uį	g/kg	32.6		3.38	Α
PCBs, Total	ND	uį	g/kg	32.6		2.90	Α

		Acceptance				
Surrogate	%Recovery Qualifie	r Criteria	Column			
2,4,5,6-Tetrachloro-m-xylene	85	30-150	Α			
Decachlorobiphenyl	82	30-150	Α			
2,4,5,6-Tetrachloro-m-xylene	87	30-150	В			
Decachlorobiphenyl	80	30-150	В			



L2012324

Project Name: TRAIL OVER CSX

Project Number: 055.167.322 **Report Date:** 03/27/20

110port Bate: 05/21/20

Lab Number:

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 03/23/20 22:20

Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/23/20 16:17
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/20
Cleanup Method: EPA 3660B
Cleanup Date: 03/23/20

Parameter	Result	Qualifier	Units	RL		MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	Lab for sa	ample(s):	04-05	Batch:	WG13	54225-1
Aroclor 1016	ND		ug/kg	32.8		2.91	А
Aroclor 1221	ND		ug/kg	32.8		3.28	Α
Aroclor 1232	ND		ug/kg	32.8		6.95	Α
Aroclor 1242	ND		ug/kg	32.8		4.42	Α
Aroclor 1248	ND		ug/kg	32.8		4.91	А
Aroclor 1254	ND		ug/kg	32.8		3.58	А
Aroclor 1260	ND		ug/kg	32.8		6.06	А
Aroclor 1262	ND		ug/kg	32.8		4.16	Α
Aroclor 1268	ND		ug/kg	32.8		3.39	А
PCBs, Total	ND		ug/kg	32.8		2.91	Α

		Acceptance				
Surrogate	%Recovery Qua	alifier Crite	ria Column			
2,4,5,6-Tetrachloro-m-xylene	85	30-150) А			
Decachlorobiphenyl	92	30-150) А			
2,4,5,6-Tetrachloro-m-xylene	88	30-150) В			
Decachlorobiphenyl	97	30-150) в			



Lab Control Sample Analysis Batch Quality Control

Project Name: TRAIL OVER CSX

Lab Number:

L2012324

Project Number: 055.167.322 Report Date:

03/27/20

	LCS		LCSD %Recovery				RP	RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Qual Limits		Qual Lim	its Colun	nn
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1353882-2 WG1353882-3									
Aroclor 1016	93		102	40-140		9	5	О А	
Aroclor 1260	89		98	40-140		10	5) A	

Surrogate	LCS %Recovery Qua	LCSD al %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	87	96	30-150 A
Decachlorobiphenyl	83	93	30-150 A
2,4,5,6-Tetrachloro-m-xylene	87	96	30-150 B
Decachlorobiphenyl	79	88	30-150 B

Lab Control Sample Analysis Batch Quality Control

Project Name: TRAIL OVER CSX

Project Number:

III WE OVER OC

055.167.322

Lab Number:

L2012324

Report Date:

Date: 03/27/20

Parameter	LCS %Recovery Qual		LCSD %Recovery	%Recovery Qual Limits		RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04-05 Batch: WG1354225-2 WG1354225-3									
Aroclor 1016	82		82		40-140	0		50	Α
Aroclor 1260	80		83	40-140		4		50	А

Surrogate	LCS %Recovery Qu	LCSD al %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	86	85	30-150 A
Decachlorobiphenyl	92	93	30-150 A
2,4,5,6-Tetrachloro-m-xylene	85	87	30-150 B
Decachlorobiphenyl	94	99	30-150 B

INORGANICS & MISCELLANEOUS



Project Name: TRAIL OVER CSX Lab Number: L2012324

SAMPLE RESULTS

Lab ID: L2012324-01 Date Collected: 03/18/20 13:00

Client ID: PIER 6 BOTTOM-N Date Received: 03/18/20 Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	54.8		%	0.100	NA	1	-	03/19/20 09:40	121,2540G	RI



Project Name: TRAIL OVER CSX Lab Number: L2012324

SAMPLE RESULTS

Lab ID: L2012324-02 Date Collected: 03/18/20 13:05

Client ID: PIER 6 BOTTOM-S Date Received: 03/18/20 Sample Location: CITY OF SYRACUSE Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	67.0		%	0.100	NA	1	-	03/19/20 09:40	121,2540G	RI



Project Name: TRAIL OVER CSX Lab Number: L2012324

SAMPLE RESULTS

Lab ID:L2012324-03Date Collected:03/18/20 13:55Client ID:PIER 6 SIDE-NDate Received:03/18/20Sample Location:CITY OF SYRACUSEField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	63.9		%	0.100	NA	1	-	03/19/20 09:40	121,2540G	RI



Project Name: TRAIL OVER CSX Lab Number: L2012324

SAMPLE RESULTS

Lab ID:L2012324-04Date Collected:03/18/20 14:00Client ID:PIER 6 SIDE-EDate Received:03/18/20Sample Location:CITY OF SYRACUSEField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	83.4		%	0.100	NA	1	-	03/19/20 09:40	121,2540G	RI



Project Name: Lab Number: TRAIL OVER CSX

L2012324 Report Date: **Project Number:** 03/27/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2012324-05 03/18/20 13:50 Client ID: PIER 6 SIDE-W Date Received: 03/18/20 Not Specified Sample Location: CITY OF SYRACUSE Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	78.8		%	0.100	NA	1	-	03/19/20 09:40	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Lab Number:

L2012324

Report Date:

03/27/20

Parameter	Native Sam	ple D	Ouplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID:	WG1352850-1	QC Sample:	L2012044-02	Client ID:	DUP Sample
Solids, Total	81.5		81.9	%	0		20



Project Name:

Project Number:

TRAIL OVER CSX

055.167.322

Lab Number: L2012324

Report Date: 03/27/20

Project Name: TRAIL OVER CSX
Project Number: 055.167.322

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2012324-01A	Glass 60mL/2oz unpreserved	Α	NA		5.4	Υ	Absent		TS(7),NYTCL-8082(14)
L2012324-02A	Glass 60mL/2oz unpreserved	Α	NA		5.4	Υ	Absent		TS(7),NYTCL-8082(14)
L2012324-03A	Glass 60mL/2oz unpreserved	Α	NA		5.4	Υ	Absent		TS(7),NYTCL-8082(14)
L2012324-04A	Glass 60mL/2oz unpreserved	Α	NA		5.4	Υ	Absent		TS(7),NYTCL-8082(14)
L2012324-05A	Glass 60mL/2oz unpreserved	Α	NA		5.4	Υ	Absent		TS(7),NYTCL-8082(14)



Project Name: TRAIL OVER CSX Lab Number: L2012324

Project Number: 055.167.322 Report Date: 03/27/20

GLOSSARY

Acronyms

EDL

LOD

LOQ

MS

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.)

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.

 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.)

 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.

- 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.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.

- 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

SRM

STLP

Report Format: DU Report with 'J' Qualifiers



Project Name:TRAIL OVER CSXLab Number:L2012324Project Number:055.167.322Report Date:03/27/20

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

Terms

1

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, Benza(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.
- 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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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:TRAIL OVER CSXLab Number:L2012324Project Number:055.167.322Report Date:03/27/20

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.

 $\boldsymbol{RE} \quad \ \, \text{-Analytical results} \text{ are from sample re-extraction}.$

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: TRAIL OVER CSX Lab Number: L2012324
Project Number: 055.167.322 Report Date: 03/27/20

REFERENCES

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.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Published Date: 2/17/2020 10:46:05 AM

Page 1 of 1

ID No.:17873

Revision 16

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

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (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, SM4500CI-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 II, 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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Ro Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Coope Project Information Project Name: TRAIL Project Location: C 17Y Project # 055, 167.	or Ave, Suite 105	CSX	Page j of		Deliver A			ASP-B EQuIS (A SKILL	ALPHA Job # L 2012324 Billing Information Same as Client Info Po# 055, 167, 322	
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_03	PIER G	SIDE - N		13:55			1		_		_		1
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A = None B = HCI C = HNO ₃ D = H ₂ SO ₄ E = NaOH	P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification No Mansfield: Certification No	: MA015			tainer Type reservative	A					Please print clearly, legibly and completely. Samples not be logged in and turnaround time clock will start until any ambiguities	can
G = NaHSO ₄ H = Na ₂ S ₂ O ₃	C = Cube O = Other E = Encore D = BOD Bottle	Relinquished B	y:		ime • 16:35 20 1135	AAL	Receive St	ille	2 63/ 3/	Date/Ti 18/2020 9/70	1635	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPH TERMS & CONDITIONS. (See reverse side.)	S IA'S



ANALYTICAL REPORT

Lab Number: L2017379

Client: Barton & Loguidice, P.C

443 Electronics Pkwy Liverpool, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Report Date: 05/04/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number: L2017379 **Report Date:** 05/04/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2017379-01	GRAB 1A-SOUTH 5'	SOIL	OCIDA PROPERTY	04/27/20 12:30	04/27/20
L2017379-02	COMP 1A-SOUTH 5'	SOIL	OCIDA PROPERTY	04/27/20 12:40	04/27/20
L2017379-03	GRAB 1A-NORTH 5'	SOIL	OCIDA PROPERTY	04/27/20 12:45	04/27/20
L2017379-04	COMP 1A-NORTH 5'	SOIL	OCIDA PROPERTY	04/27/20 12:50	04/27/20
L2017379-05	COMP 1A-EAST 5'	SOLID	OCIDA PROPERTY	04/27/20 13:00	04/27/20
L2017379-06	GRAB B-EAST 7'	SOLID	OCIDA PROPERTY	04/27/20 14:00	04/27/20
L2017379-07	GRAB B-WEST 7'	SOLID	OCIDA PROPERTY	04/27/20 14:15	04/27/20



Project Name: CANALWAYS TRAIL Lab Number: L2017379
Project Number: 055.167.322 Report Date: 05/04/20

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.	



Serial_No:05042012:30

L2017379

Lab Number:

Project Name: CANALWAYS TRAIL

Case Narrative (continued)

Report Submission

May 04, 2020: This final report includes the results of all requested analyses.

April 29, 2020: This is a preliminary report.

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

PCBs

L2017379-02, -04, and -05: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

Title: Technical Director/Representative Date: 05/04/20

600, Sew on Kelly Stenstrom

ORGANICS



PCBS



Serial_No:05042012:30

Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

Lab ID: L2017379-01 D Date Collected: 04/27/20 12:30

Client ID: GRAB 1A-SOUTH 5' Date Received: 04/27/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/28/20 02:18

Analytical Date: 05/03/20 15:58 Cleanup Method: EPA 3665A Analyst: CW Cleanup Date: 04/28/20

Percent Solids: 71% Cleanup Method: EPA 3660B Cleanup Date: 04/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by G	C - Westborough Lab						
Aroclor 1016	ND		ug/kg	230	20.4	5	Α
Aroclor 1221	ND		ug/kg	230	23.1	5	Α
Aroclor 1232	ND		ug/kg	230	48.8	5	Α
Aroclor 1242	2490		ug/kg	230	31.0	5	Α
Aroclor 1248	ND		ug/kg	230	34.6	5	Α
Aroclor 1254	1110		ug/kg	230	25.2	5	В
Aroclor 1260	ND		ug/kg	230	42.6	5	Α
Aroclor 1262	ND		ug/kg	230	29.3	5	Α
Aroclor 1268	ND		ug/kg	230	23.9	5	Α
PCBs, Total	3600		ug/kg	230	20.4	5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	Α
Decachlorobiphenyl	73		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	76		30-150	В
Decachlorobiphenyl	90		30-150	В

Serial_No:05042012:30

Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

Lab ID:L2017379-02DDate Collected:04/27/20 12:40Client ID:COMP 1A-SOUTH 5'Date Received:04/27/20Sample Location:OCIDA PROPERTYField Prep:Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/28/20 02:18
Analytical Date: 05/03/20 16:10 Cleanup Method: EPA 3665A

Analytical Date: 05/03/20 16:10 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 04/28/20
Percent Solids: 74% Cleanup Method: EPA 3660B
Cleanup Date: 04/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC	- Westborough Lab						
Aroclor 1016	ND		ug/kg	4450	396.	100	А
Aroclor 1221	ND		ug/kg	4450	446.	100	Α
Aroclor 1232	ND		ug/kg	4450	944.	100	Α
Aroclor 1242	18200		ug/kg	4450	600.	100	Α
Aroclor 1248	ND		ug/kg	4450	668.	100	Α
Aroclor 1254	10400		ug/kg	4450	487.	100	В
Aroclor 1260	ND		ug/kg	4450	823.	100	Α
Aroclor 1262	ND		ug/kg	4450	566.	100	Α
Aroclor 1268	ND		ug/kg	4450	461.	100	Α
PCBs, Total	28600		ug/kg	4450	396.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	А
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

Lab ID:L2017379-03DDate Collected:04/27/20 12:45Client ID:GRAB 1A-NORTH 5'Date Received:04/27/20Sample Location:OCIDA PROPERTYField Prep:Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/28/20 02:18
Analytical Date: 04/28/20 21:05

Analytical Date: 04/28/20 21:05 Cleanup Method: EPA 3665A
Analyst: CW
Percent Solids: 70% Cleanup Date: 04/28/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC -	Westborough Lab						
Aroclor 1016	ND		ug/kg	232	20.6	5	Α
Aroclor 1221	ND		ug/kg	232	23.2	5	Α
Aroclor 1232	ND		ug/kg	232	49.1	5	Α
Aroclor 1242	2470		ug/kg	232	31.2	5	А
Aroclor 1248	ND		ug/kg	232	34.8	5	А
Aroclor 1254	1000		ug/kg	232	25.3	5	В
Aroclor 1260	ND		ug/kg	232	42.8	5	Α
Aroclor 1262	ND		ug/kg	232	29.4	5	Α
Aroclor 1268	ND		ug/kg	232	24.0	5	Α
PCBs, Total	3470		ug/kg	232	20.6	5	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	Α
Decachlorobiphenyl	54		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	83		30-150	В
Decachlorobiphenyl	58		30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

 Lab ID:
 L2017379-04
 D
 Date Collected:
 04/27/20 12:50

 Client ID:
 COMP 1A-NORTH 5'
 Date Received:
 04/27/20

Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/28/20 02:18
Analytical Date: 04/28/20 21:17 Cleanup Method: EPA 3665A

Analytical Date: 04/28/20 21:17 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 04/28/20
Percent Solids: 77% Cleanup Method: EPA 3660B
Cleanup Date: 04/28/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	4200	373.	100	А
Aroclor 1221	ND		ug/kg	4200	421.	100	Α
Aroclor 1232	ND		ug/kg	4200	890.	100	Α
Aroclor 1242	49800		ug/kg	4200	566.	100	Α
Aroclor 1248	ND		ug/kg	4200	630.	100	Α
Aroclor 1254	20100		ug/kg	4200	460.	100	В
Aroclor 1260	ND		ug/kg	4200	776.	100	Α
Aroclor 1262	ND		ug/kg	4200	533.	100	Α
Aroclor 1268	ND		ug/kg	4200	435.	100	Α
PCBs, Total	69900		ug/kg	4200	373.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



04/28/20 06:50

Project Name: Lab Number: CANALWAYS TRAIL L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

Lab ID: D Date Collected: 04/27/20 13:00 L2017379-05 Client ID: COMP 1A-EAST 5' Date Received: 04/27/20 Sample Location: Field Prep: OCIDA PROPERTY Not Specified

Sample Depth:

Extraction Method: EPA 3540C Matrix: Solid **Extraction Date:** Analytical Method: 1,8082A Cleanup Method: EPA 3665A Analytical Date: 04/29/20 08:22

Cleanup Date: 04/29/20 Analyst: JM Cleanup Method: EPA 3660B 89% Percent Solids: Cleanup Date: 04/29/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - W	estborough Lab						
Aroclor 1016	ND		ug/kg	2080	185.	20	Α
Aroclor 1221	ND		ug/kg	2080	209.	20	A
Aroclor 1232	ND		ug/kg	2080	442.	20	Α
Aroclor 1242	7350		ug/kg	2080	281.	20	В
Aroclor 1248	ND		ug/kg	2080	312.	20	Α
Aroclor 1254	4730		ug/kg	2080	228.	20	Α
Aroclor 1260	1600	J	ug/kg	2080	385.	20	В
Aroclor 1262	ND		ug/kg	2080	265.	20	Α
Aroclor 1268	ND		ug/kg	2080	216.	20	Α
PCBs, Total	13700	J	ug/kg	2080	185.	20	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



04/29/20

Cleanup Date:

Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

 Lab ID:
 L2017379-06
 Date Collected:
 04/27/20 14:00

 Client ID:
 GRAB B-EAST 7'
 Date Received:
 04/27/20

Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Solid Extraction Method: EPA 3540C
Analytical Method: 1,8082A Extraction Date: 04/28/20 06:50

Analytical Date: 04/29/20 08:10

Analyst: JM

Percent Solids: 66%

Cleanup Method: EPA 3665A

Cleanup Date: 04/29/20

Cleanup Method: EPA 3660B

Qualifier RL MDL Result Units **Dilution Factor** Column **Parameter** Polychlorinated Biphenyls by GC - Westborough Lab Aroclor 1016 ND ug/kg 143 12.7 1 Α Aroclor 1221 ND ug/kg 143 14.4 Α Aroclor 1232 ND ug/kg 143 30.4 1 Α 108 J 1 Aroclor 1242 ug/kg 143 19.3 Α ND Aroclor 1248 ug/kg 143 21.5 1 Α J Aroclor 1254 69.6 ug/kg 143 15.7 1 Α Aroclor 1260 ND 143 26.5 1 Α ug/kg Aroclor 1262 ND ug/kg 143 18.2 1 Α Aroclor 1268 ND 143 1 ug/kg 14.8 Α PCBs, Total 178 J 143 12.7 1 Α ug/kg

Surragata	0/ Bassiani	Ovelities	Acceptance	0 - 1
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	Α
Decachlorobiphenyl	67		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	72		30-150	В
Decachlorobiphenyl	83		30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

SAMPLE RESULTS

Lab ID: Date Collected: 04/27/20 14:15

Client ID: GRAB B-WEST 7' Date Received: 04/27/20
Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Solid Extraction Method: EPA 3540C Analytical Method: 1,8082A Extraction Date: 04/28/20 06:50

Analytical Date: 04/29/20 05:02 Cleanup Method: EPA 3665A Cleanup Date: 04/29/20

Percent Solids: 60% Cleanup Method: EPA 3660B Cleanup Date: 04/29/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - W	estborough Lab						
Aroclor 1016	ND		ug/kg	143	12.7	1	Α
Aroclor 1221	ND		ug/kg	143	14.3	1	Α
Aroclor 1232	ND		ug/kg	143	30.4	1	Α
Aroclor 1242	1550		ug/kg	143	19.3	1	В
Aroclor 1248	ND		ug/kg	143	21.5	1	Α
Aroclor 1254	904		ug/kg	143	15.7	1	Α
Aroclor 1260	176		ug/kg	143	26.5	1	В
Aroclor 1262	ND		ug/kg	143	18.2	1	Α
Aroclor 1268	ND		ug/kg	143	14.8	1	Α
PCBs, Total	2630		ug/kg	143	12.7	1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	Α
Decachlorobiphenyl	61		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	75		30-150	В
Decachlorobiphenyl	78		30-150	В



L2017379

Lab Number:

Project Name: CANALWAYS TRAIL

Report Date: Project Number: 055.167.322 05/04/20

Method Blank Analysis

Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 04/28/20 00:26 Analyst: KΒ

04/27/20 12:04 **Extraction Date:** Cleanup Method: EPA 3665A Cleanup Date: 04/27/20 Cleanup Method: EPA 3660B Cleanup Date: 04/27/20

Extraction Method: EPA 3546

Parameter	Result	Qualifier	Units	RL		MDL	Column
Polychlorinated Biphenyls by GC	- Westborough	Lab for sa	ımple(s):	01-04	Batch:	WG136	64897-1
Aroclor 1016	ND		ug/kg	32.2		2.86	А
Aroclor 1221	ND		ug/kg	32.2		3.22	А
Aroclor 1232	ND		ug/kg	32.2		6.82	А
Aroclor 1242	ND		ug/kg	32.2		4.34	А
Aroclor 1248	ND		ug/kg	32.2		4.83	А
Aroclor 1254	ND		ug/kg	32.2		3.52	Α
Aroclor 1260	ND		ug/kg	32.2		5.94	Α
Aroclor 1262	ND		ug/kg	32.2		4.09	Α
Aroclor 1268	ND		ug/kg	32.2		3.33	А
PCBs, Total	ND		ug/kg	32.2		2.86	А

		Acceptance			
Surrogate	%Recovery Qualifie	r Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	91	30-150	Α		
Decachlorobiphenyl	87	30-150	Α		
2,4,5,6-Tetrachloro-m-xylene	87	30-150	В		
Decachlorobiphenyl	80	30-150	В		



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number:

Cleanup Date:

L2017379

04/29/20

Report Date: 05/04/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 04/29/20 04:02

Analyst: JM

Extraction Method: EPA 3540C
Extraction Date: 04/28/20 06:50
Cleanup Method: EPA 3665A
Cleanup Date: 04/29/20
Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL		MDL	Column
Polychlorinated Biphenyls by GC -	Westborougl	h Lab for s	ample(s):	05-07	Batch:	WG13	65117-1
Aroclor 1016	ND		ug/kg	90.2		8.01	А
Aroclor 1221	ND		ug/kg	90.2		9.04	Α
Aroclor 1232	ND		ug/kg	90.2		19.1	Α
Aroclor 1242	ND		ug/kg	90.2		12.2	Α
Aroclor 1248	ND		ug/kg	90.2		13.5	Α
Aroclor 1254	ND		ug/kg	90.2		9.87	Α
Aroclor 1260	ND		ug/kg	90.2		16.7	Α
Aroclor 1262	ND		ug/kg	90.2		11.5	Α
Aroclor 1268	ND		ug/kg	90.2		9.35	Α
PCBs, Total	ND		ug/kg	90.2		8.01	Α

		Acceptance				
Surrogate	%Recovery Qualific	er Criteria	Column			
2,4,5,6-Tetrachloro-m-xylene	78	30-150	Α			
Decachlorobiphenyl	70	30-150	Α			
2,4,5,6-Tetrachloro-m-xylene	74	30-150	В			
Decachlorobiphenyl	79	30-150	В			



Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Lab Number:

L2017379

Project Number: 055.167.322

Report Date: 05/04/20

	LCS		LCSD	_	%Recovery		_	RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westb	orough Lab Associa	ted sample(s)	: 01-04 Batch:	WG13648	897-2 WG136489	97-3			
Aroclor 1016	84		85		40-140	1		50	Α
Aroclor 1260	82		81		40-140	1		50	Α

Surrogate	LCS %Recovery Qu	LCSD nal %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	86	84	30-150 A
Decachlorobiphenyl	82	80	30-150 A
2,4,5,6-Tetrachloro-m-xylene	84	83	30-150 B
Decachlorobiphenyl	77	76	30-150 B

Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

LWAYS TRAIL

Lab Number: L2017379

Project Number: 055.167.322

Report Date: 05/04/20

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westb	orough Lab Associa	ted sample(s)	: 05-07 Batch	: WG1365 ²	117-2 WG13651	17-3			
Aroclor 1016	78		80		40-140	3		50	Α
Aroclor 1260	70		71		40-140	1		50	А

Surrogate	LCS %Recovery Qu	LCSD nal %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	75	77	30-150 A
Decachlorobiphenyl	67	67	30-150 A
2,4,5,6-Tetrachloro-m-xylene	73	76	30-150 B
Decachlorobiphenyl	76	78	30-150 B

INORGANICS & MISCELLANEOUS



04/27/20 12:30

Lab Number:

Project Name: CANALWAYS TRAIL

L2017379

Project Number: **Report Date:** 05/04/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2017379-01

Client ID: Date Received: GRAB 1A-SOUTH 5' 04/27/20 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab)								
Solids, Total	71.2		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number:

L2017379

Report Date: 05/04/20

SAMPLE RESULTS

Lab ID: L2017379-02

Client ID: COMP 1A-SOUTH 5' Sample Location: OCIDA PROPERTY

Date Collected:

04/27/20 12:40

Date Received: Field Prep:

04/27/20 Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	73.8		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number:

L2017379

Report Date: 05/04/20

SAMPLE RESULTS

Lab ID: L2017379-03

Client ID: GRAB 1A-NORTH 5' Sample Location: OCIDA PROPERTY

Date Collected:

04/27/20 12:45

04/27/20

A-NORTH 5' Date Received:

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	69.7		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number:

L2017379

Report Date:

05/04/20

SAMPLE RESULTS

Lab ID: L2017379-04

Client ID: COMP 1A-NORTH 5' Sample Location: OCIDA PROPERTY

Date Collected:

04/27/20 12:50

Date Received: Field Prep:

04/27/20 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	76.7		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Project Name: CANALWAYS TRAIL

Lab Number:

L2017379

Project Number: 055.167.322 Report Date:

05/04/20

SAMPLE RESULTS

Lab ID:

L2017379-05

COMP 1A-EAST 5'

Date Collected:

04/27/20 13:00

Client ID:

Date Received:

04/27/20

Sample Location: OCIDA PROPERTY

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	88.7		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 Lab Number:

L2017379

Report Date: 05/04/20

SAMPLE RESULTS

Lab ID: L2017379-06

Client ID: GRAB B-EAST 7' Sample Location: OCIDA PROPERTY Date Collected:

04/27/20 14:00

Date Received: Field Prep:

04/27/20 Not Specified

Sample Depth:

Calid

Matrix:	Solid									
Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	y - Westborough Lab)								
Solids, Total	65.9		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number:

L2017379

Report Date:

05/04/20

SAMPLE RESULTS

Lab ID: L2017379-07

Client ID: GRAB B-WEST 7'
Sample Location: OCIDA PROPERTY

Date Collected:

04/27/20 14:15

Date Received: Field Prep:

04/27/20 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	60.2		%	0.100	NA	1	-	04/28/20 05:07	121,2540G	PR



Lab Duplicate Analysis Batch Quality Control

CANALWAYS TRAIL Batch Quality Cont

Lab Number:

L2017379

Report Date:

05/04/20

Parameter	Native Sam	ple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	Associated sample(s): 01-07	QC Batch ID:	WG1365093-1	QC Sample:	L2017395-01	Client ID:	DUP Sample
Solids, Total	83.6		82.9	%	1		20



Project Name:

Project Number:

055.167.322

Project Name: CANALWAYS TRAIL

Lab Number: L2017379

Project Number: 055.167.322 **Report Date:** 05/04/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2017379-01A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082(14)
L2017379-02A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082(14)
L2017379-03A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082(14)
L2017379-04A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082(14)
L2017379-05A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082-3540C(14)
L2017379-06A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082-3540C(14)
L2017379-07A	Glass 60mL/2oz unpreserved	Α	NA		3.7	Υ	Absent		TS(7),NYTCL-8082-3540C(14)



Project Name: Lab Number: CANALWAYS TRAIL L2017379

Report Date: Project Number: 055.167.322 05/04/20

GLOSSARY

Acronyms

LOQ

MS

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.)

- 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

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

MDI - 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.

> - 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.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD

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.

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

TEO - 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:CANALWAYS TRAILLab Number:L2017379Project Number:055.167.322Report Date:05/04/20

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

Terms

1

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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:CANALWAYS TRAILLab Number:L2017379Project Number:055.167.322Report Date:05/04/20

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.

 $\boldsymbol{RE} \quad \ \, \text{-Analytical results} \text{ are from sample re-extraction}.$

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: CANALWAYS TRAIL Lab Number: L2017379

Project Number: 055.167.322 Report Date: 05/04/20

REFERENCES

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.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:05042012:30

ID No.:17873 Revision 17

Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

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: lodomethane (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, SM4500CI-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 II, 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.

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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ANALYTICAL REPORT

Lab Number: L2017548

Client: Barton & Loguidice, P.C

443 Electronics Pkwy Liverpool, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Report Date: 05/05/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

 Lab Number:
 L2017548

 Report Date:
 05/05/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2017548-01	GRAB 1B-NORTH-1	SOIL	OCIDA PROPERTY	04/28/20 11:00	04/28/20
L2017548-02	COMP 1B-BOTTOM-1 2'	SOIL	OCIDA PROPERTY	04/28/20 11:20	04/28/20
L2017548-03	COMP. 2C-WEST-5'	SOIL	OCIDA PROPERTY	04/28/20 13:55	04/28/20



Project Name:CANALWAYS TRAILLab Number:L2017548Project Number:055.167.322Report Date:05/05/20

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.	



L2017548

Lab Number:

Project Name: CANALWAYS TRAIL

Case Narrative (continued)

Report Submission

May 05, 2020: This final report includes the results of all requested analyses.

April 29, 2020: This is a preliminary report.

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

PCBs

L2017548-01, -02, and -03: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

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

600, Sew on Kelly Stenstrom

ANALYTICAL

ORGANICS



PCBS



Project Name: CANALWAYS TRAIL Lab Number: L2017548

Project Number: 055.167.322 **Report Date:** 05/05/20

SAMPLE RESULTS

Lab ID: L2017548-01 D Date Collected: 04/28/20 11:00

Client ID: GRAB 1B-NORTH-1 Date Received: 04/28/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/29/20 08:11

Application Date: 04/29/20 08:11

Analytical Date: 04/29/20 22:18 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 04/29/20
Percent Solids: 64% Cleanup Method: EPA 3660B
Cleanup Date: 04/29/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column					
Polychlorinated Biphenyls by GC - We	Polychlorinated Biphenyls by GC - Westborough Lab											
Aroclor 1016	ND		ug/kg	1020	91.1	20	А					
Aroclor 1221	ND		ug/kg	1020	103.	20	Α					
Aroclor 1232	ND		ug/kg	1020	217.	20	Α					
Aroclor 1242	4170		ug/kg	1020	138.	20	В					
Aroclor 1248	ND		ug/kg	1020	154.	20	А					
Aroclor 1254	4400		ug/kg	1020	112.	20	В					
Aroclor 1260	967	J	ug/kg	1020	190.	20	Α					
Aroclor 1262	ND		ug/kg	1020	130.	20	Α					
Aroclor 1268	ND		ug/kg	1020	106.	20	А					
PCBs, Total	9540	J	ug/kg	1020	91.1	20	В					

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017548

Project Number: 055.167.322 **Report Date:** 05/05/20

SAMPLE RESULTS

Lab ID: L2017548-02 D Date Collected: 04/28/20 11:20

Client ID: COMP 1B-BOTTOM-1 2' Date Received: 04/28/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/29/20 08:11
Analytical Date: 04/29/20 22:30 Cleanup Method: EPA 3665A

Analyst: CW Cleanup Date: 04/29/20
Percent Solids: 82% Cleanup Method: EPA 3660B
Cleanup Date: 04/29/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3970	353.	100	Α
Aroclor 1221	ND		ug/kg	3970	398.	100	Α
Aroclor 1232	ND		ug/kg	3970	842.	100	Α
Aroclor 1242	21700		ug/kg	3970	535.	100	В
Aroclor 1248	ND		ug/kg	3970	596.	100	Α
Aroclor 1254	9950		ug/kg	3970	434.	100	В
Aroclor 1260	3100	J	ug/kg	3970	734.	100	В
Aroclor 1262	ND		ug/kg	3970	504.	100	Α
Aroclor 1268	ND		ug/kg	3970	411.	100	Α
PCBs, Total	34800	J	ug/kg	3970	353.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017548

Project Number: 055.167.322 **Report Date:** 05/05/20

SAMPLE RESULTS

Lab ID:L2017548-03DDate Collected:04/28/20 13:55Client ID:COMP. 2C-WEST-5'Date Received:04/28/20Sample Location:OCIDA PROPERTYField Prep:Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/29/20 02:25
Analytical Date: 04/29/20 10:01 Cleanup Method: EPA 3665A

Analyst: JM Cleanup Date: 04/29/20
Percent Solids: 66% Cleanup Date: 04/29/20
Cleanup Date: 04/29/20
Cleanup Date: 04/29/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	4840	430.	100	Α
Aroclor 1221	ND		ug/kg	4840	485.	100	Α
Aroclor 1232	ND		ug/kg	4840	1020	100	Α
Aroclor 1242	18000		ug/kg	4840	652.	100	В
Aroclor 1248	ND		ug/kg	4840	726.	100	Α
Aroclor 1254	7260		ug/kg	4840	529.	100	В
Aroclor 1260	4050	J	ug/kg	4840	894.	100	В
Aroclor 1262	ND		ug/kg	4840	614.	100	Α
Aroclor 1268	ND		ug/kg	4840	501.	100	Α
PCBs, Total	29300	J	ug/kg	4840	430.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



L2017548

Lab Number:

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 **Report Date:** 05/05/20

Method Blank Analysis

Method Blank Analysis

Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 04/29/20 01:07

Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 04/28/20 11:48
Cleanup Method: EPA 3665A
Cleanup Date: 04/28/20
Cleanup Method: EPA 3660B
Cleanup Date: 04/28/20

Parameter	Result	Qualifier	Units	RL		MDL	Column
Polychlorinated Biphenyls by GC - V	Westborough	Lab for sa	mple(s):	01-03	Batch:	WG13	65264-1
Aroclor 1016	ND		ug/kg	31.8		2.82	А
Aroclor 1221	ND		ug/kg	31.8		3.19	Α
Aroclor 1232	ND		ug/kg	31.8		6.74	Α
Aroclor 1242	ND		ug/kg	31.8		4.29	Α
Aroclor 1248	ND		ug/kg	31.8		4.77	Α
Aroclor 1254	ND		ug/kg	31.8		3.48	Α
Aroclor 1260	ND		ug/kg	31.8		5.88	Α
Aroclor 1262	ND		ug/kg	31.8		4.04	Α
Aroclor 1268	ND		ug/kg	31.8		3.30	Α
PCBs, Total	ND		ug/kg	31.8		2.82	А

	Acceptance					
Surrogate	%Recovery Qualifier	Criteria	Column			
0.4507.4.11		00.450				
2,4,5,6-Tetrachloro-m-xylene	65	30-150	Α			
Decachlorobiphenyl	45	30-150	Α			
2,4,5,6-Tetrachloro-m-xylene	67	30-150	В			
Decachlorobiphenyl	60	30-150	В			



Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Lab Number:

L2017548

Project Number: 055.167.322

Report Date:

05/05/20

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1365264-2 WG1365264-3									
Aroclor 1016	66		72		40-140	9		50	Α
Aroclor 1260	52		59		40-140	13		50	А

Surrogate	LCS %Recovery Q	LCSD ual %Recovery Qual	Acceptance Criteria Column	
2,4,5,6-Tetrachloro-m-xylene	62	69	30-150 A	
Decachlorobiphenyl	41	49	30-150 A	
2,4,5,6-Tetrachloro-m-xylene	62	68	30-150 B	
Decachlorobiphenyl	51	60	30-150 B	



INORGANICS & MISCELLANEOUS



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 Lab Number:

L2017548

Report Date:

05/05/20

SAMPLE RESULTS

Lab ID: L2017548-01

Client ID: GRAB 1B-NORTH-1 Sample Location: OCIDA PROPERTY

Date Collected:

04/28/20 11:00

Date Received: Field Prep:

04/28/20

Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	63.9		%	0.100	NA	1	-	04/30/20 11:41	121,2540G	RI



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 Lab Number:

L2017548

Report Date: 05/05/20

SAMPLE RESULTS

Lab ID: L2017548-02

COMP 1B-BOTTOM-1 2' Sample Location: OCIDA PROPERTY

Date Collected:

04/28/20 11:20

Date Received: Field Prep:

04/28/20

Not Specified

Sample Depth:

Client ID:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	82.3		%	0.100	NA	1	-	04/30/20 11:41	121,2540G	RI



Project Name: CANALWAYS TRAIL

055.167.322

Lab Number:

L2017548

Report Date:

05/05/20

SAMPLE RESULTS

Lab ID: L2017548-03

Client ID: COMP. 2C-WEST-5' Sample Location: OCIDA PROPERTY

Date Collected:

04/28/20 13:55

Date Received:

04/28/20

. _ .

Project Number:

Sample Depth: Matrix: Soil Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Date Analyzed	Method	Analyst
General Chemistry - W	/estborough Lal)								
Solids, Total	65.8		%	0.100	NA	1	-	04/29/20 06:14	121,2540G	CG



Lab Duplicate Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Lab Number:

L2017548

Report Date:

05/05/20

Parameter	Native Sampl	le Duplicate Sam	ole Units	RPD	Qual R	PD Limits
General Chemistry - Westborough Lab As	ssociated sample(s): 03 QC I	Batch ID: WG1365491-1	QC Sample: L201	7458-01 Cli	ient ID: DUP S	Sample
Solids, Total	85.3	86.1	%	1		20
General Chemistry - Westborough Lab As	ssociated sample(s): 01-02 C	QC Batch ID: WG1365974-	1 QC Sample: L	2017511-01	Client ID: DL	IP Sample
Solids, Total	92.2	92.0	%	0		20



CANALWAYS TRAIL Lab Number: L2017548

Project Number: 055.167.322 **Report Date:** 05/05/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Information			Initial	nitial Final				Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2017548-01A	Glass 60mL/2oz unpreserved	Α	NA		2.4	Υ	Absent		TS(7),NYTCL-8082(14)
L2017548-02A	Glass 60mL/2oz unpreserved	Α	NA		2.4	Υ	Absent		TS(7),NYTCL-8082(14)
L2017548-03A	Glass 60mL/2oz unpreserved	Α	NA		2.4	Υ	Absent		TS(7),NYTCL-8082(14)



Project Name: Lab Number: CANALWAYS TRAIL L2017548

Report Date: Project Number: 055.167.322 05/05/20

GLOSSARY

Acronyms

LOQ

MS

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**

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.

Environmental Protection Agency.

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.)

- 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

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

MDI - 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.

> - 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.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD 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.

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

TEO - 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:CANALWAYS TRAILLab Number:L2017548Project Number:055.167.322Report Date:05/05/20

 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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_main_section} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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:CANALWAYS TRAILLab Number:L2017548Project Number:055.167.322Report Date:05/05/20

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.

 $\boldsymbol{RE} \quad \ \, \text{-Analytical results} \text{ are from sample re-extraction}.$

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: CANALWAYS TRAIL Lab Number: L2017548

Project Number: 055.167.322 Report Date: 05/05/20

REFERENCES

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.



ID No.:17873

Revision 17

Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Published Date: 4/28/2020 9:42:21 AM Title: Certificate/Approval Program Summary Page 1 of 1

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: lodomethane (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, SM4500CI-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 II, 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, Aq, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Aq, 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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Client Information Client: GARTON AN Address: 443 FLEC LIVENDOL N Phone: 315 - 45	TRANTES PKW9 Y 13088 7-5200	Project Location:	Way poper Ave, Suite 108 ANALWAY OCIPA PR 167.322 Project#) GRAGG STURM BA	MELLIER WONDY	(a,veo zi		Delivera A B O Regulat N A N	ables SP-A QuIS (1 F ther ory Requi Y TOGS WQ Standa Y Restricted Y Unrestrict	ile) iremen rds d Use	t N	SP-B QuIS (4 Y Part 37 Y CP-51	File)	ALPHA Job # L 2 0 / 754 8 Billing Information Same as Client Info PO # 055, 167.32 Z Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: NJ NY	
Fax: 377tomma (Rush (only if pre approve	d) W See com	Due Date:			-	C Sewer I					Other:	
These samples have be	THE PARTY OF THE CONTRACT OF THE PARTY OF		WI P JAR COMM	With oil Days:			ANALY		JiaGridit	jo			Sample Filtration	Т
Other project specific PLEASE IEM Please specify Metals	tel plater e	ments:	Homas t	GMEU.F.	7		80821						□ Done □ Lab to do Preservation □ Lab to do (Please Specify below)	olal Bot
ALPHA Lab ID (Lab Use Only)	S	ample ID	Colle Date	ction Time	Sample Matrix	Sampler's Initials	E/24						Sample Specific Comments	t - e
17548 - 01	GRAB IB-	NORTH-1	4/28/202	0 11100	50	JAT	~							1
-02		8-BOTTOM-1 2'	4/28/22		50	TRT	/							1
-03	Come, 2	C-WEST 5'	4/28/2000		50	TRT	-						1044 RUSH)	/
													9	
C = HNO ₃ D = H ₂ SO ₄	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification Mansfield: Certification	SELECTION STATES AND ADDRESS OF THE PERSON SERVICES			tainer Type	4 A						Please print clearly, legibly and completely. Samples ca not be logged in and turnaround time clock will no start until any ambiguities ar	ot
F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃	C = Cube O = Other E = Encore D = BOD Bottle	Relinquished		Date/ 4/28/20 4/25/20			Received	1 Ву: ДА		4/24/	ate/Tin	ne 900 00:30	resolved. BY EXECUTING THIS COC, THE CLIENT	



ANALYTICAL REPORT

Lab Number: L2017802

Client: Barton & Loguidice, P.C

443 Electronics Pkwy Liverpool, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Report Date: 05/06/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

 Lab Number:
 L2017802

 Report Date:
 05/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2017802-01	COMP. 1B-WEST	SOIL	OCIDA PROPERTY	04/29/20 15:00	04/29/20
L2017802-02	COMP. 1B-SOUTH	SOIL	OCIDA PROPERTY	04/29/20 15:05	04/29/20
L2017802-03	COMP. 1B-BOTTOM-2 2'	SOIL	OCIDA PROPERTY	04/29/20 15:10	04/29/20
L2017802-04	COMP. 1B-BOTTOM-3 2'	SOIL	OCIDA PROPERTY	04/29/20 15:20	04/29/20
L2017802-05	COMP. 1B-BOTTOM-4 2'	SOIL	OCIDA PROPERTY	04/29/20 15:30	04/29/20
L2017802-06	COMP. 1B-NORTH-3	SOIL	OCIDA PROPERTY	04/29/20 15:35	04/29/20
L2017802-07	COMP. 1B-NORTH-2	SOIL	OCIDA PROPERTY	04/29/20 15:40	04/29/20
L2017802-08	COMP. 2C-BOTTOM-1 5'	SOIL	OCIDA PROPERTY	04/29/20 16:00	04/29/20
L2017802-09	COMP. 2C-BOTTOM-2 5'	SOIL	OCIDA PROPERTY	04/29/20 16:05	04/29/20
L2017802-10	COMP. 2C-BOTTOM-3 5'	SOIL	OCIDA PROPERTY	04/29/20 16:10	04/29/20
L2017802-11	COMP. 2C-SOUTH 3'	SOIL	OCIDA PROPERTY	04/29/20 16:15	04/29/20
L2017802-12	COMP. 2C-NORTH 3'	SOIL	OCIDA PROPERTY	04/29/20 16:20	04/29/20



Project Name: CANALWAYS TRAIL Lab Number: L2017802
Project Number: 055.167.322 Report Date: 05/06/20

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.	



L2017802

Lab Number:

Project Name: CANALWAYS TRAIL

Case Narrative (continued)

Report Submission

May 06, 2020: This final report includes the results of all requested analyses.

April 30, 2020: This is a preliminary report.

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

PCBs

L2017802-01, -02, -03, -04, -05, -07, -09, -10, -11, and -12: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2017802-11: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

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:

Title: Technical Director/Representative Date: 05/06/20

Melissa Sturgis Melissa Sturgis

ORGANICS



PCBS



04/30/20

Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: Report Date: 055.167.322 05/06/20

SAMPLE RESULTS

L2017802-01 Date Collected: Lab ID: D 04/29/20 15:00 Client ID: COMP. 1B-WEST Date Received: 04/29/20

Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 04/30/20 02:36 Analytical Method: 1,8082A

Cleanup Method: EPA 3665A Analytical Date: 04/30/20 10:57 Cleanup Date: 04/30/20 Analyst: JM Cleanup Method: **EPA 3660B** 86% Percent Solids: Cleanup Date:

Qualifier RL MDL Result Units **Dilution Factor** Column **Parameter** Polychlorinated Biphenyls by GC - Westborough Lab Aroclor 1016 ND ug/kg 3880 344. 100 Α Aroclor 1221 ND ug/kg 3880 389. 100 Α Aroclor 1232 ND ug/kg 3880 822. 100 Α 10200 3880 Aroclor 1242 ug/kg 523. 100 Α ND Aroclor 1248 ug/kg 3880 582. 100 Α 6550 3880 Aroclor 1254 ug/kg 424. 100 Α J Aroclor 1260 2550 3880 717. 100 Α ug/kg Aroclor 1262 ND 3880 492. 100 Α ug/kg Aroclor 1268 ND 3880 402. 100 ug/kg Α PCBs, Total 19300 J 3880 344. 100 Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В

ug/kg



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-02 D Date Collected: 04/29/20 15:05

Client ID: COMP. 1B-SOUTH Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/02/20 08:22
Analytical Date: 05/04/20 15:14 Cleanup Method: EPA 3665A

Analytical Date: 05/04/20 15:14 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 05/02/20
Percent Solids: 82% Cleanup Method: EPA 3660B

Cleanup Date: 05/02/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by G	C - Westborough Lab						
Aroclor 1016	ND		ug/kg	3920	348.	100	А
Aroclor 1221	ND		ug/kg	3920	392.	100	Α
Aroclor 1232	ND		ug/kg	3920	830.	100	Α
Aroclor 1242	16300		ug/kg	3920	528.	100	В
Aroclor 1248	ND		ug/kg	3920	588.	100	Α
Aroclor 1254	8330		ug/kg	3920	428.	100	В
Aroclor 1260	2050	J	ug/kg	3920	724.	100	В
Aroclor 1262	ND		ug/kg	3920	497.	100	Α
Aroclor 1268	ND		ug/kg	3920	406.	100	Α
PCBs, Total	26700	J	ug/kg	3920	348.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-03 D Date Collected: 04/29/20 15:10

Client ID: COMP. 1B-BOTTOM-2 2' Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/02/20 08:22

Analytical Date: 05/05/20 04:01 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 05/02/20
Percent Solids: 88% Cleanup Method: EPA 3660B

Cleanup Date: 05/02/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - W	estborough Lab						
Aroclor 1016	ND		ug/kg	3740	332.	100	Α
Aroclor 1221	ND		ug/kg	3740	375.	100	Α
Aroclor 1232	ND		ug/kg	3740	794.	100	Α
Aroclor 1242	17500		ug/kg	3740	505.	100	В
Aroclor 1248	ND		ug/kg	3740	562.	100	А
Aroclor 1254	9690		ug/kg	3740	410.	100	В
Aroclor 1260	2040	J	ug/kg	3740	692.	100	А
Aroclor 1262	ND		ug/kg	3740	476.	100	Α
Aroclor 1268	ND		ug/kg	3740	388.	100	Α
PCBs, Total	29200	J	ug/kg	3740	332.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-04 D Date Collected: 04/29/20 15:20

Client ID: COMP. 1B-BOTTOM-3 2' Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/02/20 08:22

Analytical Date: 05/04/20 15:26 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 05/02/20
Percent Solids: 86% Cleanup Method: EPA 3660B

Percent Solids: 86% Cleanup Method: EPA 3660 Cleanup Date: 05/02/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by G	C - Westborough Lab						
Aroclor 1016	ND		ug/kg	3810	338.	100	Α
Aroclor 1221	ND		ug/kg	3810	382.	100	Α
Aroclor 1232	ND		ug/kg	3810	808.	100	Α
Aroclor 1242	24300		ug/kg	3810	514.	100	В
Aroclor 1248	ND		ug/kg	3810	572.	100	А
Aroclor 1254	27300		ug/kg	3810	417.	100	В
Aroclor 1260	3640	J	ug/kg	3810	704.	100	В
Aroclor 1262	ND		ug/kg	3810	484.	100	Α
Aroclor 1268	ND		ug/kg	3810	395.	100	Α
PCBs, Total	55200	J	ug/kg	3810	338.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



05/02/20

Cleanup Date:

Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-05 D Date Collected: 04/29/20 15:30

Client ID: COMP. 1B-BOTTOM-4 2' Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/02/20 13:52

Analytical Date: 05/06/20 11:26 Cleanup Method: EPA 3665A
Analyst: JM Cleanup Date: 05/02/20
Percent Solids: 84% Cleanup Method: EPA 3660B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	3870	344.	100	А
Aroclor 1221	ND		ug/kg	3870	388.	100	Α
Aroclor 1232	ND		ug/kg	3870	821.	100	Α
Aroclor 1242	9820		ug/kg	3870	522.	100	В
Aroclor 1248	ND		ug/kg	3870	581.	100	Α
Aroclor 1254	7280		ug/kg	3870	424.	100	В
Aroclor 1260	1920	J	ug/kg	3870	716.	100	В
Aroclor 1262	ND		ug/kg	3870	492.	100	Α
Aroclor 1268	ND		ug/kg	3870	401.	100	Α
PCBs, Total	19000	J	ug/kg	3870	344.	100	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-06 D Date Collected: 04/29/20 15:35

Client ID: COMP. 1B-NORTH-3 Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1 8082A Extraction Date: 05/02/20 08

Analytical Method: 1,8082A Extraction Date: 05/02/20 08:22
Analytical Date: 05/04/20 14:12 Cleanup Method: EPA 3665A

Cleanup Date: 05/02/20

Analyst: CW
Percent Solids: 92%

Cleanup Date: 05/02/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/02/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC	- Westborough Lab						
Aroclor 1016	ND		ug/kg	171	15.2	5	А
Aroclor 1221	ND		ug/kg	171	17.2	5	Α
Aroclor 1232	ND		ug/kg	171	36.3	5	Α
Aroclor 1242	772		ug/kg	171	23.1	5	В
Aroclor 1248	ND		ug/kg	171	25.7	5	Α
Aroclor 1254	631		ug/kg	171	18.7	5	В
Aroclor 1260	125	J	ug/kg	171	31.7	5	Α
Aroclor 1262	ND		ug/kg	171	21.8	5	Α
Aroclor 1268	ND		ug/kg	171	17.8	5	Α
PCBs, Total	1530	J	ug/kg	171	15.2	5	В

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	Α
Decachlorobiphenyl	61		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	59		30-150	В
Decachlorobiphenyl	67		30-150	В



05/02/20 08:22

Project Name: Lab Number: CANALWAYS TRAIL L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: D Date Collected: 04/29/20 15:40 L2017802-07 Client ID: COMP. 1B-NORTH-2 Date Received: 04/29/20 Sample Location: Field Prep: OCIDA PROPERTY Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** Analytical Method: 1,8082A Analytical Date: 05/04/20 14:49

Cleanup Method: EPA 3665A Cleanup Date: 05/02/20 Analyst: CW Cleanup Method: EPA 3660B 85% Percent Solids: Cleanup Date: 05/02/20

Parameter	Result	Qualifier Un	its RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by	GC - Westborough Lab					
Aroclor 1016	ND	ug/	kg 765	67.9	20	Α
Aroclor 1221	ND	ug/	kg 765	76.7	20	Α
Aroclor 1232	ND	ug/	kg 765	162.	20	Α
Aroclor 1242	5100	ug/	kg 765	103.	20	В
Aroclor 1248	ND	ug/	kg 765	115.	20	Α
Aroclor 1254	5810	ug/	kg 765	83.7	20	В
Aroclor 1260	1140	ug/	kg 765	141.	20	В
Aroclor 1262	ND	ug/	kg 765	97.2	20	Α
Aroclor 1268	ND	ug/	kg 765	79.3	20	Α
PCBs, Total	12100	ug/	kg 765	67.9	20	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

 Lab ID:
 L2017802-08
 D
 Date Collected:
 04/29/20 16:00

 Client ID:
 COMP. 2C-BOTTOM-1 5'
 Date Received:
 04/29/20

Sample Location: OCIDA PROPERTY Date Received: 04/29/20

Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/30/20 02:36
Analytical Date: 04/30/20 14:13 Cleanup Method: EPA 3665A

Analytical Date: 04/30/20 14:13 Cleanup Method: EPA 3665A
Analyst: JM Cleanup Date: 04/30/20
Percent Solids: 79% Cleanup Method: EPA 3660B
Cleanup Date: 04/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by (GC - Westborough Lab						
Aroclor 1016	ND		ug/kg	208	18.4	5	Α
Aroclor 1221	ND		ug/kg	208	20.8	5	Α
Aroclor 1232	ND		ug/kg	208	44.0	5	Α
Aroclor 1242	1080		ug/kg	208	28.0	5	В
Aroclor 1248	ND		ug/kg	208	31.2	5	Α
Aroclor 1254	709		ug/kg	208	22.7	5	А
Aroclor 1260	149	J	ug/kg	208	38.4	5	В
Aroclor 1262	ND		ug/kg	208	26.4	5	Α
Aroclor 1268	ND		ug/kg	208	21.5	5	Α
PCBs, Total	1940	J	ug/kg	208	18.4	5	В

Cuma mata	0/ D	o ""	Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	Α
Decachlorobiphenyl	37		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	58		30-150	В
Decachlorobiphenyl	44		30-150	В



04/30/20 02:36

Project Name: Lab Number: CANALWAYS TRAIL L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: D Date Collected: 04/29/20 16:05 L2017802-09 Date Received: Client ID: COMP. 2C-BOTTOM-2 5' 04/29/20 Sample Location: Field Prep: OCIDA PROPERTY Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** Analytical Method: 1,8082A Cleanup Method: EPA 3665A Analytical Date: 04/30/20 11:09

Cleanup Date: 04/30/20 Analyst: JM Cleanup Method: EPA 3660B 77% Percent Solids: Cleanup Date: 04/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC	- Westborough Lab						
Aroclor 1016	ND		ug/kg	4240	376.	100	А
Aroclor 1221	ND		ug/kg	4240	425.	100	Α
Aroclor 1232	ND		ug/kg	4240	898.	100	Α
Aroclor 1242	15500		ug/kg	4240	571.	100	Α
Aroclor 1248	ND		ug/kg	4240	636.	100	Α
Aroclor 1254	5860		ug/kg	4240	464.	100	А
Aroclor 1260	922	J	ug/kg	4240	783.	100	Α
Aroclor 1262	ND		ug/kg	4240	538.	100	Α
Aroclor 1268	ND		ug/kg	4240	439.	100	Α
PCBs, Total	22300	J	ug/kg	4240	376.	100	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



04/30/20

Cleanup Date:

Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-10 D Date Collected: 04/29/20 16:10

Client ID: COMP. 2C-BOTTOM-3 5' Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 04/30/20 02:36

Analytical Date: 04/30/20 11:21 Cleanup Method: EPA 3665A
Analyst: JM Cleanup Date: 04/30/20
Percent Solids: 83% Cleanup Method: EPA 3660B

Qualifier RL MDL Result Units **Dilution Factor** Column **Parameter** Polychlorinated Biphenyls by GC - Westborough Lab Aroclor 1016 ND ug/kg 3920 348. 100 Α Aroclor 1221 ND ug/kg 3920 392. 100 Α Aroclor 1232 ND ug/kg 3920 830. 100 Α 12100 Aroclor 1242 ug/kg 3920 528. 100 Α ND Aroclor 1248 ug/kg 3920 588. 100 Α 5570 Aroclor 1254 ug/kg 3920 428. 100 Α J Aroclor 1260 760 3920 724. 100 Α ug/kg Aroclor 1262 ND 3920 498. 100 Α ug/kg Aroclor 1268 ND 3920 406. 100 ug/kg Α 18400 J PCBs, Total 3920 348. 100 Α ug/kg

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: Lab Number: **CANALWAYS TRAIL** L2017802

Project Number: Report Date: 055.167.322 05/06/20

SAMPLE RESULTS

Lab ID: D Date Collected: 04/29/20 16:15 L2017802-11 Date Received: Client ID: COMP. 2C-SOUTH 3' 04/29/20

Sample Location: Field Prep: OCIDA PROPERTY Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 05/03/20 16:32 1,8082A Analytical Method: Cleanup Method: EPA 3665A

Analytical Date: 05/05/20 00:52 Cleanup Date: 05/03/20 Analyst: KΒ Cleanup Method: EPA 3660B 84% Percent Solids: Cleanup Date: 05/03/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC	- Westborough Lab						
Aroclor 1016	ND		ua/ka	2720	242.	25	Α
			ug/kg				
Aroclor 1221	ND		ug/kg	2720	272.	25	Α
Aroclor 1232	ND		ug/kg	2720	577.	25	Α
Aroclor 1242	26700		ug/kg	2720	367.	25	Α
Aroclor 1248	ND		ug/kg	2720	408.	25	Α
Aroclor 1254	12800		ug/kg	2720	298.	25	В
Aroclor 1260	ND		ug/kg	2720	503.	25	Α
Aroclor 1262	ND		ug/kg	2720	345.	25	Α
Aroclor 1268	ND		ug/kg	2720	282.	25	Α
PCBs, Total	39500		ug/kg	2720	242.	25	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-12 D Date Collected: 04/29/20 16:20

Client ID: COMP. 2C-NORTH 3' Date Received: 04/29/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/02/20 08:22

Analytical Date: 05/04/20 15:02 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 05/02/20
Percent Solids: 89% Cleanup Method: EPA 3660B

Percent Solids: 89% Cleanup Method: EPA 3660 Cleanup Date: 05/02/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - V	Vestborough Lab						
Aroclor 1016	ND		ug/kg	735	65.3	20	Α
	ND		ug/kg				
Aroclor 1221			ug/kg	735	73.7	20	A
Aroclor 1232	ND		ug/kg	735	156.	20	A
Aroclor 1242	7550		ug/kg	735	99.1	20	В
Aroclor 1248	ND		ug/kg	735	110.	20	Α
Aroclor 1254	3420		ug/kg	735	80.4	20	В
Aroclor 1260	644	J	ug/kg	735	136.	20	Α
Aroclor 1262	ND		ug/kg	735	93.4	20	Α
Aroclor 1268	ND		ug/kg	735	76.2	20	Α
PCBs, Total	11600	J	ug/kg	735	65.3	20	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



L2017802

Project Name: CANALWAYS TRAIL

Report Date: Project Number: 055.167.322

05/06/20

Lab Number:

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 04/30/20 08:31

Analyst: JM

Extraction Method: EPA 3546 04/29/20 16:02 **Extraction Date:** Cleanup Method: EPA 3665A Cleanup Date: 04/29/20 Cleanup Method: EPA 3660B Cleanup Date: 04/30/20

Parameter	Result	Qualifier Units	RL	MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	Lab for sample(s):	01,08-10	Batch: WG13	365749-1
Aroclor 1016	ND	ug/kg	32.7	2.90	Α
Aroclor 1221	ND	ug/kg	32.7	3.28	Α
Aroclor 1232	ND	ug/kg	32.7	6.93	А
Aroclor 1242	ND	ug/kg	32.7	4.41	Α
Aroclor 1248	ND	ug/kg	32.7	4.90	Α
Aroclor 1254	ND	ug/kg	32.7	3.58	А
Aroclor 1260	ND	ug/kg	32.7	6.04	А
Aroclor 1262	ND	ug/kg	32.7	4.15	А
Aroclor 1268	ND	ug/kg	32.7	3.39	А
PCBs, Total	ND	ug/kg	32.7	2.90	А

		Acceptance			
Surrogate	%Recovery Qualifie	r Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	70	30-150	Α		
Decachlorobiphenyl	65	30-150	Α		
2,4,5,6-Tetrachloro-m-xylene	72	30-150	В		
Decachlorobiphenyl	85	30-150	В		



L2017802

Lab Number:

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 **Report Date:** 05/06/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 05/03/20 13:11

Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/02/20 08:22
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/02/20

Parameter	Result	Qualifier Units	RL	MDL	Column
Polychlorinated Biphenyls by GC	- Westborough	n Lab for sample(s)): 02-07,12	Batch: WG1	366654-1
Aroclor 1016	ND	ug/kg	32.3	2.87	А
Aroclor 1221	ND	ug/kg	32.3	3.24	Α
Aroclor 1232	ND	ug/kg	32.3	6.85	Α
Aroclor 1242	ND	ug/kg	32.3	4.35	Α
Aroclor 1248	ND	ug/kg	32.3	4.84	Α
Aroclor 1254	ND	ug/kg	32.3	3.53	Α
Aroclor 1260	ND	ug/kg	32.3	5.97	Α
Aroclor 1262	ND	ug/kg	32.3	4.10	Α
Aroclor 1268	ND	ug/kg	32.3	3.35	Α
PCBs, Total	ND	ug/kg	32.3	2.87	Α

	Acceptance						
Surrogate	%Recovery Qualifie	er Criteria	Column				
2,4,5,6-Tetrachloro-m-xylene	69	30-150	Α				
Decachlorobiphenyl	59	30-150	Α				
2,4,5,6-Tetrachloro-m-xylene	69	30-150	В				
Decachlorobiphenyl	56	30-150	В				



L2017802

Lab Number:

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 **Report Date:** 05/06/20

Report Date. 05/00/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 05/04/20 03:41

Analyst: AD

Extraction Method: EPA 3546
Extraction Date: 05/03/20 16:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/20

Parameter	Result	Qualifier	Units		RL	MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	n Lab for s	ample(s):	11	Batch:	WG1366834-	1
Aroclor 1016	ND		ug/kg	;	33.3	2.95	А
Aroclor 1221	ND		ug/kg	;	33.3	3.33	А
Aroclor 1232	ND		ug/kg	;	33.3	7.05	Α
Aroclor 1242	ND		ug/kg	;	33.3	4.48	А
Aroclor 1248	ND		ug/kg	;	33.3	4.99	А
Aroclor 1254	ND		ug/kg	;	33.3	3.64	Α
Aroclor 1260	ND		ug/kg	;	33.3	6.15	А
Aroclor 1262	ND		ug/kg	;	33.3	4.22	А
Aroclor 1268	ND		ug/kg	;	33.3	3.45	А
PCBs, Total	ND		ug/kg	;	33.3	2.95	Α

		Acceptance						
Surrogate	%Recovery Qualifie	r Criteria	Column					
2,4,5,6-Tetrachloro-m-xylene	54	30-150	Α					
Decachlorobiphenyl	55	30-150	Α					
2,4,5,6-Tetrachloro-m-xylene	59	30-150	В					
Decachlorobiphenyl	52	30-150	В					



Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Lab Number:

L2017802

Project Number: 055.167.322

Report Date:

05/06/20

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westbor	ough Lab Associa	ated sample(s)	: 01,08-10 B	atch: WG1	365749-2 WG136	5749-3			
Aroclor 1016	82		81		40-140	1		50	Α
Aroclor 1260	76		75		40-140	1		50	А

Surrogate	LCS %Recovery 0	LCSD Qual %Recovery Qua	Acceptance al Criteria Column
2,4,5,6-Tetrachloro-m-xylene	74	74	30-150 A
Decachlorobiphenyl	67	68	30-150 A
2,4,5,6-Tetrachloro-m-xylene	72	71	30-150 B
Decachlorobiphenyl	81	82	30-150 B



Lab Control Sample Analysis Batch Quality Control

CANALWAYS TRAIL Project Name:

Lab Number:

L2017802

Project Number: 055.167.322

Report Date:

05/06/20

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Wes	tborough Lab Associa	ated sample(s)	: 02-07,12 B	atch: WG1	366654-2 WG136	6654-3			
Aroclor 1016	63		70		40-140	11		50	Α
Aroclor 1260	62		67		40-140	8		50	Α

Surrogate	LCS %Recovery Qu	LCSD al %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	66	71	30-150 A
Decachlorobiphenyl	56	64	30-150 A
2,4,5,6-Tetrachloro-m-xylene	67	72	30-150 B
Decachlorobiphenyl	54	59	30-150 B

Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Lab Number:

L2017802

Project Number: 055.167.322

Report Date:

05/06/20

	LCS		LCSD	%	Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - West	borough Lab Associa	ted sample(s):	11 Batch:	WG1366834-2	WG1366834-3				
Aroclor 1016	78		76		40-140	3		50	Α
Aroclor 1260	72		70		40-140	3		50	А

Surrogate	LCS %Recovery Qua	LCSD d %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	80	81	30-150 A
Decachlorobiphenyl	83	79	30-150 A
2,4,5,6-Tetrachloro-m-xylene	90	92	30-150 B
Decachlorobiphenyl	79	76	30-150 B



INORGANICS & MISCELLANEOUS



Project Name: CANALWAYS TRAIL Lab Number:

L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

SAMPLE RESULTS

Lab ID: L2017802-01

Client ID: COMP. 1B-WEST Date Received:

04/29/20 15:00

Sample Location: OCIDA PROPERTY

Field Prep:

Date Collected:

04/29/20 Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	85.6		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: Lab Number: **CANALWAYS TRAIL**

L2017802 Project Number: **Report Date:** 05/06/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-02 04/29/20 15:05

Client ID: COMP. 1B-SOUTH Date Received: 04/29/20 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	82.3		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: CANALWAYS TRAIL

Lab Number: L2017802

Project Number: **Report Date:** 05/06/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-03 04/29/20 15:10

Client ID: Date Received: 04/29/20 COMP. 1B-BOTTOM-2 2' Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	88.3		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: Lab Number: **CANALWAYS TRAIL**

L2017802

Report Date: 05/06/20

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-04 04/29/20 15:20

Client ID: COMP. 1B-BOTTOM-3 2' Date Received: 04/29/20 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Project Number:

055.167.322

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	86.1		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: Lab Number: **CANALWAYS TRAIL**

L2017802 Project Number: 05/06/20 055.167.322

Report Date:

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-05 04/29/20 15:30

Client ID: Date Received: 04/29/20 COMP. 1B-BOTTOM-4 2' Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	84.2		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



04/29/20 15:35

Project Name: CANALWAYS TRAIL

Lab Number: L2017802 055.167.322

Report Date: 05/06/20

Date Collected:

SAMPLE RESULTS

Lab ID: L2017802-06

Client ID: Date Received: 04/29/20 COMP. 1B-NORTH-3 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	91.8		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: CANALWAYS TRAIL Lab Number:

L2017802

Project Number: 055.167.322 **Report Date:**

Date Collected:

05/06/20

SAMPLE RESULTS

Lab ID: L2017802-07

COMP. 1B-NORTH-2

04/29/20 15:40

Date Received:

04/29/20

Sample Location: OCIDA PROPERTY

Not Specified Field Prep:

Sample Depth:

Matrix:

Client ID:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	85.2		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



04/29/20 16:00

Project Name: CANALWAYS TRAIL

Lab Number: L2017802

Project Number: **Report Date:** 05/06/20 055.167.322

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-08

04/29/20 Client ID: COMP. 2C-BOTTOM-1 5' Date Received: Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	78.8		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: Lab Number: **CANALWAYS TRAIL**

L2017802 055.167.322

Report Date: 05/06/20

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-09 04/29/20 16:05

Client ID: COMP. 2C-BOTTOM-2 5' Date Received: 04/29/20 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	76.9		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: CANALWAYS TRAIL Lab Number:

L2017802

Project Number: 055.167.322 **Report Date:**

05/06/20

SAMPLE RESULTS

Lab ID: L2017802-10

04/29/20 16:10

Client ID: COMP. 2C-BOTTOM-3 5' Sample Location: OCIDA PROPERTY

Date Collected: Date Received:

04/29/20

Not Specified Field Prep:

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	82.5		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: CANALWAYS TRAIL

Lab Number: L2017802

Date Collected:

Project Number: **Report Date:** 05/06/20 055.167.322

SAMPLE RESULTS

Lab ID: L2017802-11

04/29/20 16:15 Client ID: COMP. 2C-SOUTH 3' Date Received: 04/29/20 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	84.0		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Project Name: CANALWAYS TRAIL

Lab Number: L2017802 055.167.322

Report Date: 05/06/20

SAMPLE RESULTS

Lab ID: Date Collected: L2017802-12 04/29/20 16:20

Client ID: COMP. 2C-NORTH 3' Date Received: 04/29/20 Not Specified Sample Location: OCIDA PROPERTY Field Prep:

Sample Depth:

Project Number:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	89.0		%	0.100	NA	1	-	04/30/20 05:01	121,2540G	PR



Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name: CANALWAYS TRAIL** L2017802

Project Number: Report Date: 05/06/20 055.167.322

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated	d sample(s): 01-12 QC Ba	tch ID: WG1365872-1	QC Sample:	L2017802-01	Client ID:	COMP. 1B-WEST
Solids, Total	85.6	86.6	%	1		20



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2017802-01A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-02A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-03A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-04A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-05A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-06A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-07A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-08A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-09A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-10A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-11A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)
L2017802-12A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7),NYTCL-8082(14)



Project Name: CANALWAYS TRAIL Lab Number: L2017802

Project Number: 055.167.322 **Report Date:** 05/06/20

GLOSSARY

Acronyms

EDL

LOD

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)

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

 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.

- 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:CANALWAYS TRAILLab Number:L2017802Project Number:055.167.322Report Date:05/06/20

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

Terms

1

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, Benza(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.
- 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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was 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
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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:CANALWAYS TRAILLab Number:L2017802Project Number:055.167.322Report Date:05/06/20

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: CANALWAYS TRAIL Lab Number: L2017802
Project Number: 055.167.322 Report Date: 05/06/20

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.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:05062014:14

ID No.:17873 Revision 17

Published Date: 4/28/2020 9:42:21 AM

Page 1 of 1

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: lodomethane (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, SM4500CI-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 II, 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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-8298-9220 NEW YORK Albany, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 Project Information Project Name: (ANALWAYS TRAIL			5	Page / of		Deliver	CONTROL OF THE PARTY OF THE PAR		136 2	CILETA	ALPHA Job# L 2 017802 Billing Information		
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ANALYTICAL REPORT

Lab Number: L2018368

Client: Barton & Loguidice, P.C

443 Electronics Pkwy Liverpool, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Report Date: 05/11/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

 Lab Number:
 L2018368

 Report Date:
 05/11/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2018368-01	GRAB 2C-BOTTOM-2 6.5-8'	SOIL	OCIDA PROPERTY	05/04/20 09:45	05/04/20
L2018368-02	GRAB 2C-BOTTOM-3 6.5-8'	SOIL	OCIDA PROPERTY	05/04/20 09:55	05/04/20
L2018368-03	COMP. 2C-WEST-2 5'	SOIL	OCIDA PROPERTY	05/04/20 12:15	05/04/20
L2018368-04	COMP. 1B-BOTTOM-5 2'	SOIL	OCIDA PROPERTY	05/04/20 14:25	05/04/20



Project Name:CANALWAYS TRAILLab Number:L2018368Project Number:055.167.322Report Date:05/11/20

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.	



L2018368

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 **Report Date:** 05/11/20

Lab Number:

Case Narrative (continued)

Report Submission

May 11, 2020: This final report includes the results of all requested analyses.

May 05, 2020: This is a preliminary report.

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

PCBs

L2018368-03 and -04: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-mxylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

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:

Date: 05/11/20 Title: Technical Director/Representative

Melissa Sturgis Melissa Sturgis

ORGANICS



PCBS



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

SAMPLE RESULTS

Lab ID: L2018368-01 Date Collected: 05/04/20 09:45

Client ID: GRAB 2C-BOTTOM-2 6.5-8' Date Received: 05/04/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/05/20 02:15
Analytical Date: 05/05/20 08:24 Cleanup Method: EPA 3665A

Analyst: CW Cleanup Date: 05/05/20
Percent Solids: 69% Cleanup Date: 05/05/20
Cleanup Date: 05/05/20
Cleanup Date: 05/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column			
Polychlorinated Biphenyls by GC - Westborough Lab										
Aradar 1016	ND			45.0	4.07	1	۸			
Aroclor 1016	ND		ug/kg	45.8	4.07	Į.	Α			
Aroclor 1221	ND		ug/kg	45.8	4.59	1	Α			
Aroclor 1232	ND		ug/kg	45.8	9.71	1	Α			
Aroclor 1242	660		ug/kg	45.8	6.17	1	В			
Aroclor 1248	ND		ug/kg	45.8	6.87	1	Α			
Aroclor 1254	230		ug/kg	45.8	5.01	1	В			
Aroclor 1260	44.2	J	ug/kg	45.8	8.46	1	Α			
Aroclor 1262	ND		ug/kg	45.8	5.82	1	Α			
Aroclor 1268	ND		ug/kg	45.8	4.74	1	Α			
PCBs, Total	934	J	ug/kg	45.8	4.07	1	В			

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	Α
Decachlorobiphenyl	51		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	60		30-150	В
Decachlorobiphenyl	62		30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

SAMPLE RESULTS

Lab ID: L2018368-02 Date Collected: 05/04/20 09:55

Client ID: GRAB 2C-BOTTOM-3 6.5-8' Date Received: 05/04/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/05/20 02:15
Analytical Date: 05/05/20 08:36 Cleanup Method: EPA 3665A

Analyst: CW Cleanup Date: 05/05/20
Percent Solids: 66% Cleanup Date: 05/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC -	Westborough Lab						
Aroclor 1016	ND		ug/kg	48.5	4.31	1	А
Aroclor 1221	ND		ug/kg	48.5	4.86	1	Α
Aroclor 1232	ND		ug/kg	48.5	10.3	1	Α
Aroclor 1242	42.6	JP	ug/kg	48.5	6.54	1	В
Aroclor 1248	ND		ug/kg	48.5	7.28	1	Α
Aroclor 1254	18.5	J	ug/kg	48.5	5.30	1	В
Aroclor 1260	ND		ug/kg	48.5	8.96	1	Α
Aroclor 1262	ND		ug/kg	48.5	6.16	1	Α
Aroclor 1268	ND		ug/kg	48.5	5.02	1	Α
PCBs, Total	61.1	J	ug/kg	48.5	4.31	1	В

		Acceptance		
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	Α
Decachlorobiphenyl	41		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	57		30-150	В
Decachlorobiphenyl	45		30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

SAMPLE RESULTS

Lab ID:L2018368-03DDate Collected:05/04/20 12:15Client ID:COMP. 2C-WEST-2 5'Date Received:05/04/20Sample Location:OCIDA PROPERTYField Prep:Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/05/20 02:15
Analytical Date: 05/05/20 11:36 Cleanup Method: EPA 3665A

Analytical Date: 05/05/20 11:36 Cleanup Method: EPA 3665A
Analyst: CW
Percent Solids: 77% Cleanup Date: 05/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by G	C - Westborough Lab						
Aroclor 1016	ND		ug/kg	824	73.2	20	Α
Aroclor 1221	ND		ug/kg	824	82.6	20	Α
Aroclor 1232	ND		ug/kg	824	175.	20	Α
Aroclor 1242	2970		ug/kg	824	111.	20	В
Aroclor 1248	ND		ug/kg	824	124.	20	Α
Aroclor 1254	1190		ug/kg	824	90.2	20	Α
Aroclor 1260	328	J	ug/kg	824	152.	20	Α
Aroclor 1262	ND		ug/kg	824	105.	20	Α
Aroclor 1268	ND		ug/kg	824	85.4	20	Α
PCBs, Total	4490	J	ug/kg	824	73.2	20	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	Α
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

SAMPLE RESULTS

 Lab ID:
 L2018368-04
 D
 Date Collected:
 05/04/20 14:25

 Client ID:
 COMP. 1B-BOTTOM-5 2'
 Date Received:
 05/04/20

Client ID: COMP. 1B-BOTTOM-5 2' Date Received: 05/04/20
Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 05/05/20 02:15

Analytical Date: 05/05/20 11:48 Cleanup Method: EPA 3665A
Analyst: CW Cleanup Date: 05/05/20
Percent Solids: 87% Cleanup Method: EPA 3660B
Cleanup Date: 05/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column		
Polychlorinated Biphenyls by GC - Westborough Lab									
Aroclor 1016	ND		ug/kg	758	67.3	20	Α		
Aroclor 1221	ND		ug/kg	758	75.9	20	Α		
Aroclor 1232	ND		ug/kg	758	161.	20	Α		
Aroclor 1242	5150		ug/kg	758	102.	20	В		
Aroclor 1248	ND		ug/kg	758	114.	20	Α		
Aroclor 1254	2660		ug/kg	758	82.9	20	В		
Aroclor 1260	517	J	ug/kg	758	140.	20	Α		
Aroclor 1262	ND		ug/kg	758	96.2	20	Α		
Aroclor 1268	ND		ug/kg	758	78.5	20	Α		
PCBs, Total	8330	J	ug/kg	758	67.3	20	В		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	Α
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	В
Decachlorobiphenyl	0	Q	30-150	В



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Report Date: 05/11/20

L2018368

Lab Number:

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 05/05/20 07:49

Analyst: CW

Extraction Method: EPA 3546
Extraction Date: 05/04/20 17:19
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/20
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/20

Parameter	Result	Qualifier Units	RL	MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	Lab for sample(s): 01-04	Batch: WG13	367153-1
Aroclor 1016	ND	ug/kg	31.7	2.82	А
Aroclor 1221	ND	ug/kg	31.7	3.18	А
Aroclor 1232	ND	ug/kg	31.7	6.72	А
Aroclor 1242	ND	ug/kg	31.7	4.28	Α
Aroclor 1248	ND	ug/kg	31.7	4.76	Α
Aroclor 1254	ND	ug/kg	31.7	3.47	Α
Aroclor 1260	ND	ug/kg	31.7	5.86	Α
Aroclor 1262	ND	ug/kg	31.7	4.03	Α
Aroclor 1268	ND	ug/kg	31.7	3.29	Α
PCBs, Total	ND	ug/kg	31.7	2.82	Α

		Acceptance			
Surrogate	%Recovery Qualifie	er Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	77	30-150	Α		
Decachlorobiphenyl	76	30-150	Α		
2,4,5,6-Tetrachloro-m-xylene	72	30-150	В		
Decachlorobiphenyl	67	30-150	В		



Lab Control Sample Analysis Batch Quality Control

CANALWAYS TRAIL Project Name:

Lab Number:

L2018368

Project Number: 055.167.322

Report Date:

05/11/20

	LCS	LCS LCSD		%Recovery			RPD		
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1367153-2 WG1367153-3									
Aroclor 1016	74		77		40-140	4	l	50	Α
Aroclor 1260	69		72		40-140	4		50	Α

Surrogate	LCS %Recovery Q	LCSD Jual %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	73	74	30-150 A
Decachlorobiphenyl	73	74	30-150 A
2,4,5,6-Tetrachloro-m-xylene	71	73	30-150 B
Decachlorobiphenyl	62	64	30-150 B



INORGANICS & MISCELLANEOUS



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

SAMPLE RESULTS

Lab ID: L2018368-01 Date Collected: 05/04/20 09:45

Client ID: GRAB 2C-BOTTOM-2 6.5-8' Date Received: 05/04/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	68.5		%	0.100	NA	1	-	05/05/20 04:59	121,2540G	PR



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

SAMPLE RESULTS

Lab ID: L2018368-02 Date Collected: 05/04/20 09:55

Client ID: GRAB 2C-BOTTOM-3 6.5-8' Date Received: 05/04/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	66.0		%	0.100	NA	1	-	05/05/20 04:59	121,2540G	PR



Project Name: CANALWAYS TRAIL

Lab Number:

L2018368

Project Number: 055.167.322

Report Date: 05/11/20

SAMPLE RESULTS

Lab ID: L2018368-03

Client ID: COMP. 2C-WEST-2 5' Sample Location: OCIDA PROPERTY

Date Collected:

05/04/20 12:15

Date Received:

05/04/20

Field Prep:

Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	77.0		%	0.100	NA	1	-	05/05/20 04:59	121,2540G	PR



Project Name: Lab Number: **CANALWAYS TRAIL**

L2018368

Project Number: 055.167.322 **Report Date:**

05/11/20

SAMPLE RESULTS

Lab ID: L2018368-04 Date Collected:

05/04/20 14:25

Client ID:

COMP. 1B-BOTTOM-5 2'

Date Received:

05/04/20

Sample Location: OCIDA PROPERTY

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	87.1		%	0.100	NA	1	-	05/05/20 04:59	121,2540G	PR



L2018368

Lab Duplicate Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

uality Control Lab Number:

Report Date: 05/11/20

Parameter	Native Samp	ple Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab As BOTTOM-5 2'	ssociated sample(s): 01-04	QC Batch ID: WG1367232-1	QC Sample:	L2018368-04	Client ID:	COMP. 1B-
Solids, Total	87.1	83.1	%	5		20



CANALWAYS TRAIL L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Info	Container Information		Initial		Temp			Frozen	
Container ID	Container Type	Cooler	рН	pH deg C Pres		Seal	Date/Time	Analysis(*)	
L2018368-01A	Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		TS(7),NYTCL-8082(14)
L2018368-02A	Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		TS(7),NYTCL-8082(14)
L2018368-03A	Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		TS(7),NYTCL-8082(14)
L2018368-04A	Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		TS(7),NYTCL-8082(14)



Project Name: CANALWAYS TRAIL Lab Number: L2018368

Project Number: 055.167.322 **Report Date:** 05/11/20

GLOSSARY

Acronyms

EPA

LOQ

MS

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)

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.

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.

Environmental Protection Agency.

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.)

- 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.

- 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

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



Project Name:CANALWAYS TRAILLab Number:L2018368Project Number:055.167.322Report Date:05/11/20

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_main_section} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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



Project Name:CANALWAYS TRAILLab Number:L2018368Project Number:055.167.322Report Date:05/11/20

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.

 $\boldsymbol{RE} \quad \ \, \text{-Analytical results} \text{ are from sample re-extraction}.$

S - Analytical results are from modified screening analysis.



Project Name: CANALWAYS TRAIL Lab Number: L2018368
Project Number: 055.167.322 Report Date: 05/11/20

REFERENCES

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.



ID No.:17873

Revision 17

Alpha Analytical, Inc. Facility: Company-wide

Published Date: 4/28/2020 9:42:21 AM Department: Quality Assurance Title: Certificate/Approval Program Summary Page 1 of 1

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: lodomethane (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, SM4500CI-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 II, 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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Address: 447 Rus LTUING M Phone: 3/5-457 Fax: THIMS 6 Email: La Cutot	CUSTODY Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 In Lab 35 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-898-9220 X: 508-898-9193 FAX: 508-892-9300 FAX: 508-822-3288 Project Information Project Location: OCEOF PROFILE Project Location: OCEOF PROFILE (Use Project name as Project #) CUSTODY Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 Project Information Project Information Project Name: CANTUMN TIME Project Location: OCEOF PROFILE (Use Project name as Project #) CUSTODY TONAWAND ON TOTAL TONAWAND							ALPHA Job # L 2 018368 Billing Information Same as Client Info PO# 055, 167, 32 Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: NJ NY Other:	08			
Other project specific	requirements/comm	ents:					ANAL	YSIS			Sample Filtration Done Lab to do	T o !
Please specify Metals ALPHA Lab ID	or TAL.	TWOINE !		ection	Sample	Sampler's	4 80824				Preservation Lab to do (Please Specify below)	B o t t
(Lab Use Only)		mple ID	Date	Time	Matrix	Initials	EPA				Sample Specific Comments	e
8368 -01 -02 -03 -04	GRAB 2C-B. GRAB 2C-B. COMP. 2C-WE WMP. 1B-BO		\$ 5/4	9:45 9:55 12:15 14:25	50	JRT	V V V				10AY RUSH 10AY RUSH 10AY RUSH STANDARD	1 1
B = HCI C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH	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 Mansfield: Certification No Relinquished B	: MA015 y: 5/4/22	Date/ • 15:3 5-4/20	Fime ,	41	4 Receive	THAT	5/4	Date/Time 1/20 19/1	Please print clearly, legible and completely. Samples not be logged in and turnaround time clock will start until any ambiguities resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREETO BE BOUND BY ALPH	I not s are G
O = Other Form No: 01-25 HC (rev. 30	0-Sept-2013)	5		3 1//20	7110	Jan 1			210	NO GOILD	TERMS & CONDITIONS. (See reverse side.)	



ANALYTICAL REPORT

Lab Number: L2020939

Client: Barton & Loguidice, P.C

443 Electronics Pkwy Liverpool, NY 13088

ATTN: Greg Miller
Phone: (716) 352-2102

Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

Report Date: 05/27/20

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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).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322

 Lab Number:
 L2020939

 Report Date:
 05/27/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2020939-01	CONCRETE 1A-N GRAB	SOLID	OCIDA PROPERTY	05/20/20 12:00	05/20/20
L2020939-02	CONCRETE 1A-S GRAB	SOLID	OCIDA PROPERTY	05/20/20 12:10	05/20/20
L2020939-03	CONCRETE 1B-E GRAB	SOLID	OCIDA PROPERTY	05/20/20 12:30	05/20/20
L2020939-04	CONCRETE 1B-W GRAB	SOLID	OCIDA PROPERTY	05/20/20 12:35	05/20/20



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

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: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

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.

Jennifer L Clements

Authorized Signature:

Title: Technical Director/Representative Date: 05/27/20

ORGANICS



PCBS



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

SAMPLE RESULTS

Lab ID: L2020939-01 Date Collected: 05/20/20 12:00

Client ID: CONCRETE 1A-N GRAB Date Received: 05/20/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Solid Extraction Method: EPA 3540C
Analytical Method: 1,8082A Extraction Date: 05/22/20 15:25
Analytical Date: 05/24/20 12:25 Cleanup Method: EPA 3665A

Analyst: JAW Cleanup Date: 05/24/20
Percent Solids: 95% 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	91.7	8.14	1	А				
Aroclor 1221	ND		ug/kg	91.7	9.18	1	Α				
Aroclor 1232	ND		ug/kg	91.7	19.4	1	А				
Aroclor 1242	ND		ug/kg	91.7	12.4	1	Α				
Aroclor 1248	ND		ug/kg	91.7	13.7	1	Α				
Aroclor 1254	ND		ug/kg	91.7	10.0	1	Α				
Aroclor 1260	ND		ug/kg	91.7	16.9	1	Α				
Aroclor 1262	ND		ug/kg	91.7	11.6	1	Α				
Aroclor 1268	ND		ug/kg	91.7	9.50	1	Α				
PCBs, Total	ND		ug/kg	91.7	8.14	1	Α				

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	Α
Decachlorobiphenyl	48		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	57		30-150	В
Decachlorobiphenyl	54		30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

SAMPLE RESULTS

Lab ID: L2020939-02 Date Collected: 05/20/20 12:10

Client ID: CONCRETE 1A-S GRAB Date Received: 05/20/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Solid Extraction Method: EPA 3540C
Analytical Method: 1,8082A Extraction Date: 05/22/20 15:25
Analytical Date: 05/24/20 16:39 Cleanup Method: EPA 3665A

Analyst: JAW Cleanup Date: 05/24/20 Percent Solids: 95% Cleanup Date: 05/24/20 Cleanup Date: 05/24/20 Cleanup Date: 05/24/20 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	102	9.09	1	Α
Aroclor 1221	ND		ug/kg	102	10.2	1	Α
Aroclor 1232	ND		ug/kg	102	21.7	1	Α
Aroclor 1242	ND		ug/kg	102	13.8	1	Α
Aroclor 1248	87.1	J	ug/kg	102	15.4	1	Α
Aroclor 1254	111		ug/kg	102	11.2	1	В
Aroclor 1260	ND		ug/kg	102	18.9	1	Α
Aroclor 1262	ND		ug/kg	102	13.0	1	Α
Aroclor 1268	ND		ug/kg	102	10.6	1	Α
PCBs, Total	198	J	ug/kg	102	9.09	1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
	76 Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	Α
Decachlorobiphenyl	44		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	55		30-150	В
Decachlorobiphenyl	48		30-150	В



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

SAMPLE RESULTS

Lab ID: L2020939-03 Date Collected: 05/20/20 12:30

Client ID: CONCRETE 1B-E GRAB Date Received: 05/20/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Solid Extraction Method: EPA 3540C
Analytical Method: 1,8082A Extraction Date: 05/26/20 11:25
Analytical Date: 05/27/20 11:19 Cleanup Method: EPA 3665A

Analyst: CW Cleanup Date: 05/27/20
Percent Solids: 91% Cleanup Method: EPA 3660B
Cleanup Date: 05/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - W	estborough Lab						
Aroclor 1016	ND		ug/kg	102	9.03	1	Α
Aroclor 1221	ND		ug/kg	102	10.2	1	Α
Aroclor 1232	ND		ug/kg	102	21.6	1	Α
Aroclor 1242	ND		ug/kg	102	13.7	1	Α
Aroclor 1248	33.5	J	ug/kg	102	15.2	1	В
Aroclor 1254	47.7	J	ug/kg	102	11.1	1	Α
Aroclor 1260	ND		ug/kg	102	18.8	1	Α
Aroclor 1262	ND		ug/kg	102	12.9	1	Α
Aroclor 1268	ND		ug/kg	102	10.5	1	Α
PCBs, Total	81.2	J	ug/kg	102	9.03	1	В

Surrogate	9/ Basayany	Qualifier	Acceptance		
	% Recovery	Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	55		30-150	Α	
Decachlorobiphenyl	52		30-150	Α	
2,4,5,6-Tetrachloro-m-xylene	53		30-150	В	
Decachlorobiphenyl	52		30-150	В	



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

SAMPLE RESULTS

Lab ID: L2020939-04 Date Collected: 05/20/20 12:35

Client ID: CONCRETE 1B-W GRAB Date Received: 05/20/20 Sample Location: OCIDA PROPERTY Field Prep: Not Specified

Sample Depth:

Matrix: Solid Extraction Method: EPA 3540C
Analytical Method: 1,8082A Extraction Date: 05/22/20 15:25
Analytical Date: 05/24/20 16:46 Cleanup Method: EPA 3665A

Analyst: JAW Cleanup Date: 05/24/20
Percent Solids: 96% Cleanup Date: 05/24/20
Cleanup Date: 05/24/20
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	101	8.99	1	А
Aroclor 1221	ND		ug/kg	101	10.1	1	Α
Aroclor 1232	ND		ug/kg	101	21.5	1	Α
Aroclor 1242	ND		ug/kg	101	13.6	1	Α
Aroclor 1248	ND		ug/kg	101	15.2	1	Α
Aroclor 1254	97.2	J	ug/kg	101	11.1	1	В
Aroclor 1260	ND		ug/kg	101	18.7	1	Α
Aroclor 1262	ND		ug/kg	101	12.8	1	Α
Aroclor 1268	ND		ug/kg	101	10.5	1	Α
PCBs, Total	97.2	J	ug/kg	101	8.99	1	В

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	Α
Decachlorobiphenyl	52		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	62		30-150	В
Decachlorobiphenyl	57		30-150	В



L2020939

Project Name: CANALWAYS TRAIL

Report Date: Project Number: 055.167.322

05/27/20

Lab Number:

Method Blank Analysis Batch Quality Control

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

Analyst: **JAW**

Extraction Method: EPA 3540C 05/22/20 15:25 **Extraction Date:** 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):	01-02,04	Batch: WG13	373760-1
Aroclor 1016	ND	ug/kg	88.3	7.84	Α
Aroclor 1221	ND	ug/kg	88.3	8.85	Α
Aroclor 1232	ND	ug/kg	88.3	18.7	Α
Aroclor 1242	ND	ug/kg	88.3	11.9	Α
Aroclor 1248	ND	ug/kg	88.3	13.2	Α
Aroclor 1254	ND	ug/kg	88.3	9.66	Α
Aroclor 1260	ND	ug/kg	88.3	16.3	Α
Aroclor 1262	ND	ug/kg	88.3	11.2	Α
Aroclor 1268	ND	ug/kg	88.3	9.15	Α
PCBs, Total	ND	ug/kg	88.3	7.84	Α

		Acceptance			
Surrogate	%Recovery Qua	alifier Crite	ria Column		
2,4,5,6-Tetrachloro-m-xylene	81	30-15	O A		
Decachlorobiphenyl	54	30-15	O A		
2,4,5,6-Tetrachloro-m-xylene	82	30-15	0 В		
Decachlorobiphenyl	58	30-15	0 в		



L2020939

Lab Number:

Project Name: CANALWAYS TRAIL

Report Date: Project Number: 055.167.322 05/27/20

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 05/27/20 11:26

Analyst: CW

Extraction Method: EPA 3540C 05/26/20 11:25 **Extraction Date:** Cleanup Method: EPA 3665A Cleanup Date: 05/27/20 Cleanup Method: EPA 3660B Cleanup Date: 05/27/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC -	Westborough	n Lab for s	ample(s):	03 Batch	: WG1374310)-1
Aroclor 1016	ND		ug/kg	93.4	8.30	А
Aroclor 1221	ND		ug/kg	93.4	9.36	Α
Aroclor 1232	ND		ug/kg	93.4	19.8	А
Aroclor 1242	ND		ug/kg	93.4	12.6	Α
Aroclor 1248	ND		ug/kg	93.4	14.0	Α
Aroclor 1254	ND		ug/kg	93.4	10.2	Α
Aroclor 1260	ND		ug/kg	93.4	17.3	Α
Aroclor 1262	ND		ug/kg	93.4	11.9	Α
Aroclor 1268	ND		ug/kg	93.4	9.68	Α
PCBs, Total	ND		ug/kg	93.4	8.30	Α

		Acceptance			
Surrogate	%Recovery Qualifie	r Criteria	Column		
2,4,5,6-Tetrachloro-m-xylene	53	30-150	Α		
Decachlorobiphenyl	51	30-150	Α		
2,4,5,6-Tetrachloro-m-xylene	55	30-150	В		
Decachlorobiphenyl	53	30-150	В		



Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

Lab Number:

L2020939

Project Number: 055.167.322

Report Date:

05/27/20

	LCS		LCSD		%Recovery			RPD	
Parameter	%Recovery	Qual	%Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westbo	orough Lab Associa	ated sample(s)	: 01-02,04 B	atch: WG1	373760-2 WG137	′3760-3			
Aroclor 1016	81		92		40-140	13		50	Α
Aroclor 1260	68		79		40-140	15		50	Α

Surrogate	LCS %Recovery Q	LCSD Qual %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



Lab Control Sample Analysis Batch Quality Control

Project Name: CANALWAYS TRAIL

ALWAYS TRAIL

Lab Number: L2020939

Project Number: 055.167.322

Report Date: 05/27/20

		LCS		LC	CSD	9	6Recovery			RPD	
Parameter		%Recovery	Qual	%Re	covery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls I	oy GC - Westborouç	gh Lab Assoc	iated sample(s):	: 03	Batch:	WG1374310-2	WG1374310-3				
Aroclor 1016		54			58		40-140	7		50	Α
Aroclor 1260		53			57		40-140	7		50	Α

Surrogate	LCS %Recovery Qu	LCSD al %Recoverv Qual	Acceptance Criteria Column
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
2,4,5,6-Tetrachloro-m-xylene	63	65	30-150 A
Decachlorobiphenyl	60	62	30-150 A
2,4,5,6-Tetrachloro-m-xylene	63	67	30-150 B
Decachlorobiphenyl	63	68	30-150 B



INORGANICS & MISCELLANEOUS



Project Name: CANALWAYS TRAIL

Project Number: 055.167.322 Lab Number:

L2020939

Report Date: 05/27/20

SAMPLE RESULTS

Lab ID: L2020939-01

CONCRETE 1A-N GRAB

05/20/20 12:00

Client ID:

Date Received:

Date Collected:

05/20/20

Sample Location: OCIDA PROPERTY

Field Prep:

Not Specified

Sample Depth:

Matrix:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	94.7		%	0.100	NA	1	-	05/22/20 08:45	121,2540G	RI



Project Name: CANALWAYS TRAIL

Lab Number:

L2020939

Project Number: 055.167.322 **Report Date:**

05/27/20

SAMPLE RESULTS

Lab ID: L2020939-02 Date Collected:

05/20/20 12:10

Client ID:

CONCRETE 1A-S GRAB

Date Received:

05/20/20

Sample Location: OCIDA PROPERTY

Field Prep:

Not Specified

Sample Depth:

Matrix:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	95.2		%	0.100	NA	1	-	05/22/20 08:45	121,2540G	RI



Project Name: CANALWAYS TRAIL

Lab Number:

L2020939

Project Number: 055.167.322

Report Date:

05/27/20

SAMPLE RESULTS

Lab ID: L2020939-03

CONCRETE 1B-E GRAB

Sample Location: OCIDA PROPERTY

Date Collected:

05/20/20 12:30

PINA PROPERTY

Date Received:

05/20/20

Field Prep:

Not Specified

Sample Depth:

Matrix:

Client ID:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab)								
Solids, Total	91.4		%	0.100	NA	1	-	05/22/20 08:45	121,2540G	RI



Project Name: CANALWAYS TRAIL

Lab Number:

L2020939

Project Number: 055.167.322 **Report Date:**

05/27/20

SAMPLE RESULTS

Lab ID: L2020939-04

CONCRETE 1B-W GRAB

Date Collected:

05/20/20 12:35

Sample Location: OCIDA PROPERTY

Date Received: Field Prep:

05/20/20 Not Specified

Sample Depth:

Matrix:

Client ID:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Nestborough Lab)								
Solids, Total	95.7		%	0.100	NA	1	-	05/22/20 08:45	121,2540G	RI



L2020939

Lab Duplicate Analysis

Batch Quality Control

Lab Number:

Project Number: Report Date: 05/27/20 055.167.322

Parameter	Native Sam	ple D	ouplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-04	QC Batch ID:	WG1373536-1	QC Sample:	L2021201-01	Client ID:	DUP Sample
Solids, Total	96.3		96.6	%	0		20



Project Name:

CANALWAYS TRAIL

Lab Number: L2020939 **CANALWAYS TRAIL Project Number:** 055.167.322

Report Date: 05/27/20

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Cooler Information

Project Name:

Custody Seal Cooler

Α Absent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2020939-01A	Glass 60mL/2oz unpreserved	Α	NA		4.7	Υ	Absent		TS(7),NYTCL-8082-CNCRT(14)
L2020939-02A	Glass 60mL/2oz unpreserved	Α	NA		4.7	Υ	Absent		TS(7),NYTCL-8082-CNCRT(14)
L2020939-03A	Glass 60mL/2oz unpreserved	Α	NA		4.7	Υ	Absent		TS(7),NYTCL-8082-CNCRT(14)
L2020939-04A	Glass 60mL/2oz unpreserved	Α	NA		4.7	Υ	Absent		TS(7),NYTCL-8082-CNCRT(14)



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 **Report Date:** 05/27/20

GLOSSARY

Acronyms

EDL

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.)

 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

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 (TCI) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes



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

Terms

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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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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



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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.



Project Name: CANALWAYS TRAIL Lab Number: L2020939

Project Number: 055.167.322 Report Date: 05/27/20

REFERENCES

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.



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Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Published Date: 4/28/2020 9:42:21 AM Title: Certificate/Approval Program Summary

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: lodomethane (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, SM4500CI-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 II, 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.

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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